

2023-2024 CATALOG



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| (AD) (AS) (C) | Associate of Arts Associate Degree in Applied Science Associate of Science Certificate Technical Diploma |
|---------------------|----------------------------------------------------------------------------------------------------------------------|
| (TD) | Technical Diploma |
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- (AA) Associate of Arts
 (AD) Associate Degree in Applied Science
 (AS) Associate of Science
 (C) Certificate
 (TD) Technical Diploma

MISSION

Transform individuals and strengthen our communities through innovative, accessible learning.

VISION

The community's driver for individual, social, cultural, and economic vitality.



ACCREDITATION AND AFFILIATION

Lakeshore Technical College is accredited by The Higher Learning Commission, 230 South LaSalle Street, Suite 7-500, Chicago, IL 60604-1411; <u>hlcommission.org</u>; 312.263.0456.

LAKESHORE'S NON-DISCRIMINATION STATEMENT

Lakeshore Technical College does not discriminate against protected classes, including but not limited to race, color, national origin, religion, sex, or gender – including sexual orientation, gender identity, gender expression, disability or age in employment, admissions, or its programs or activities. To handle inquiries regarding Lakeshore's nondiscrimination policies, contact the Manager of Access, Equity, and Inclusion for students at 920.693.1120, <u>nicole.yang@gotoltc.edu</u> or the Executive Director of Human Resources for staff/others at 920.693.1139, <u>marissa.holst@gotoltc.edu</u>. Lakeshore Technical College, 1290 North Avenue, Cleveland, WI 53015. (TTY 711) <u>Equal Opportunity Statement | gotoLTC</u>

ACADEMIC SUPPORT & TUTORING

Lakeshore Technical College's Academic Support & Tutoring Services provides free assistance for a variety of classes and programs. Students may access support through drop-in hours, structured labs, study groups, and individualized tutoring. Support is provided in the areas of General Education, such as Reading, Math, English, Social Science, Science, Technology, and Study Skills. Most supports are available virtually, in person, or over the phone.

Technology Support

Student technology support provides one-on-one computer help for a variety of campus technologies and software, including Blackboard, MyLAKESHORE, Microsoft Office (Outlook/email, Word, Excel, and PowerPoint), computer management, and more.

Academic Coaching

Academic Coaching is a resource for all students at Lakeshore who want to improve their academic skills, time management, study tips, test anxiety strategies, and more. Every student can benefit from building their skills to help them achieve greater academic success. If you are interested in learning more about academic coaching or would like to get started with a coach, please connect with a member of the Academic Support and Tutoring team today.

Peer Tutoring

Aside from our in-person assistance, we also offer a peer tutoring program in which you would be able to connect with a peer tutor either in person and/or virtually. Peer Tutoring is available for individualized help in technical program classes. The link to request a peer tutor or to become hired as a peer tutor can be found here: <u>Home - Academic Support and Tutoring - LTC Library at Lakeshore Technical College (libguides.com)</u>. Please note, a tutor match is not guaranteed, but all efforts are made to find a tutor.

Tutor.com

For students who seek support via online tutoring, Lakeshore has partnered with Tutor.com. Professional tutoring support is available 24/7 and features a team of on-demand expert tutors. Success is not achieved alone; it takes a team and Tutor.com is here to help you. Access Tutor.com directly from all courses in Blackboard, located on the left-hand navigation pane. This service is free to you and can assist you in a variety of content areas.

Digital Resources

Unsure about technology or what to expect in your college classes? No worries, Lakeshore has you covered! Get tech-ready for classes with the Crush IT Learning Series! Let Lakeshore's expert staff guide you through commonly used Lakeshore technology, applications, resources, tips, and skills essential to student success while taking online and face-to-face classes. All sessions are open to prospective and current students, staff, and community members. In addition, feel free to access the <u>Quick Bytes</u> webpage for self-help videos on how to survive and thrive here at Lakeshore.

If you are looking for academic support of any type, ask how we can help. Academic Support is in the Library (L160B); stop in, call 920.693.1322, or email <u>academic.support@gotoltc.edu</u>.

ACCESS, EQUITY, AND INCLUSION

We provide proactive, culturally informed support to help students navigate college, enhance their personal growth, and nurture belonging on campus.

Services Include:

- Academic Coaching & Guidance for BIPoC (Black, Indigenous, and People of Color) and others
- ADA and Title IX Accommodations
- English Language Learner Supports
- Safe Space Ally Program
- Special events and workshops

For more information, contact the Manager of Access, Equity, and Inclusion at <u>nicole.yang@gotoltc.edu</u> or 920.693.1120 (TTY 711).

ACCOMMODATION SERVICES

We partner with students and instructors to develop accommodation plans that ensure equal opportunity to participate in Lakeshore programs, services, and activities.

Types of Accommodation Plans include:

- ADA Accommodation Services are available to students with documented disabilities in accordance with the Americans with Disabilities Act, Section 504e, and section 508 of the Rehabilitation Act.
- Title IX Accommodation Services are available to students who are pregnant, adopting, or parenting as defined by Title IX.

Accommodations are voluntary, confidential, and outcome neutral. They do not modify curriculum, provide any advantage, or guarantee success in a course or program.

For more information, contact the Manager of Access, Equity, and Inclusion at <u>nicole.yang@gotoltc.edu</u> or 920.693.1120 (TTY 711).

Service Animal Policy

Lakeshore Technical College allows the use of a certified service animal on our campuses by persons with a documented disability in accordance with the Americans with Disabilities Act, Section 504e, and section 508 of the Rehabilitation Act.

- Visitors with certified service animals are permitted at college locations that are generally open to the public.
- Students wishing to use a certified service animal on campus to participate in an academic program, service, or activity must establish an Accommodation Plan.

Note that limitations, including areas where service animals may be prohibited, may apply.

For more information, contact the Manager of Access, Equity, and Inclusion at <u>nicole.yang@gotoltc.edu</u> or 920.693.1120 (TTY 711).

ORIENTATION & STUDENT SUCCESS TUTORIAL

All new program students and students taking a competency-based education course for the first time are required to complete the online Student Success Tutorial. The tutorial can be completed fully online as a self-guided course or students may attend in-person, staff-led sessions to complete it. The course provides students with their rights and responsibilities and learning activities to practice common technology skills to be a successful Lakeshore student. Students must complete the tutorial with an 80% or higher score before registering for their second semester. However, it is highly recommended that students complete it before classes begin. This ensures that students have the necessary information they need to navigate their courses and college experience.

Individual programs may require an additional program orientation session. Each respective division will coordinate and communicate dates, times, and details.

TESTING SERVICES

Testing Services administers a variety of tests including the Accuplacer; GED/HSED; keyboarding; Credit for Prior Learning test-out exams for Lakeshore Technical College classes; HESI nursing entrance exams; and proctored instructional testing for Lakeshore Technical College classes.

Testing Procedures:

- Appointments are required and must be scheduled 24 hours in advance. Proctored instructional testing for Lakeshore classes must be scheduled through Navigate.
- Testers MUST have a photo ID with full name and picture.
- Testing must be completed by closing time. Please plan your time accordingly.
- Cell phones and electronic devices (including smart watches) are not allowed. Lockers are available.
- Scratch paper and pencils are provided. Calculators will be provided if approved. Personal calculators are not allowed. All items must be returned to the proctor when finished.
- Beverages and snacks are not allowed.
- Testers may not leave for breaks after a test has started.
- Only testers are allowed in testing areas.
- If testing on a computer, no other applications or websites are to be open.
- Testing rooms are under camera surveillance and recording.
- Violations will be reported to your instructor.

For more information, contact Testing Services at 920.693.1184 or testing@gotoltc.edu.

MANITOWOC & SHEBOYGAN CENTERS

Lakeshore Technical College offers programs to prepare adults to earn a high school credential, enter a college program, and/or enter employment. Instruction is provided in the areas of reading, writing, math, social studies, science, civics, career and employability education, and English Language Learning (ELL). The course of study is determined through goal setting and working closely with instructors to create an individualized plan of education.

Specific Programming Includes:

- Adult Education is designed for individuals who want to review, learn, or improve academic skills in reading, writing, math, and digital literacy. The curriculum offers students the opportunity to meet personal needs for additional education, training and/or employment.
- GED/HSED programming prepares adult students to earn a high school credential, such as the General Equivalency Development (GED) certificate or the High School Equivalency Diploma (HSED). To earn a GED, students must successfully complete a Career Awareness course and four academic exams:
 - Reasoning through Language Arts
 - Mathematical Reasoning
 - Science
 - Social Studies
- The HSED credential requires successful completion of the four GED exams PLUS the following:
 - Health (exam or coursework)
 - Employability Skills course
- Alternative HSED programming is also available. A competency-based, structured class option allows students to earn the HSED without taking the GED exams. This is for individuals who can, in a classroom setting, demonstrate mastery of skills expected of Wisconsin high school graduates, but who would be unable to demonstrate those competencies in a formal, timed, testing environment. This credentialing opportunity also requires a state-mandated civics test.
- All high school credentialing opportunities also require a state mandated civics test in addition to the above criteria.
- The English Language Learning (ELL) program is designed to provide non-English and limited-English speaking students coursework in Reading, Writing, Listening, and Speaking the English language. Other subjects offered are digital literacy, citizenship exam preparation, and employability classes.
- Career and employability courses are offered to explore interests, skills, and goals for employment. Resume writing, interviewing skills, digital literacy, and other skills to obtain and retain employment are stressed.
- Lakeshore support services are offered; these include:
 - AE/ELL Counselors are available to assist with career planning, program enrollment support, and selection.
 - Admissions Advisors to work with students on college admission steps.
 - Student support, such as accommodation services, diversity services, and academic support.

To participate in any of these classes or activities, contact your preferred location:

ManitowocSheboygan600 York Street1320 Niagara AvenueManitowoc, WI 54220Sheboygan, WI 53081920.693.1000920.208.5888(TTY: 920.683.1776)(TTY: 920.208.5877)

PREFERRED & LEGAL NAME

A student's legal name is the name that is listed on official college documents including, but not limited to, transcripts, certificates, and diplomas. Students who wish to use a preferred name on campus may request that Student Services staff add their preferred name to their student record at Lakeshore Technical College.

Students with preferred names:

- will be listed by their preferred name in the student directory.
- will use their preferred name when setting up a username and password for the Lakeshore network and email.
- will be known by their preferred name by the Lakeshore Help Desk.
- MUST contact Student Billing to ensure that all refunds are processed according to their preference **before any refunds are issued**.

Please note that preferred names are not related to legal or official name changes. Students who wish to change their legal name should submit the Official Name Change Form which is available at Student Services or online at gotoltc.edu/sites/default/files/pdf/current-students/Official-Name-Change.pdf

REGISTRATION

Students register online by accessing MyLTC from <u>gotoltc.edu</u> > Current Students. User ID and password are required for access. Other registration options include in person or by email.

Students will need to complete the following steps in order to register for classes:

1. Identify the Classes You Need

If you are a program student, your program information sheet includes the recommended sequence of courses you should take. Review course prerequisites and corequisites. To find out if a class you would like to take has a co/prerequisite, visit one of the following on the Lakeshore Technical College website:

- Searchable class listing
- Course descriptions on your program information sheet
- MyLTC Shopping Cart

For assistance in choosing classes, we recommend that you speak with your Program Counselor. To meet with a Program Counselor, please call 920.693.1366 or schedule an appointment via Navigate.

2. Get Your Class Information

You will need some key information about each course for which you would like to register, including:

- Class Title
- Class Number or Catalog Number

You can easily obtain this information through our online Find a Class search feature, or on the Lakeshore website. Be sure to note this information on a piece of paper or download and print our Registration Form before going to the next step in the Registration process. The Registration form can be found at gotoltc.edu/business-industry/seminars-and-continuing-education/seminars/seminar-registration.

3. Register

Confirm your registration dates in MyLTC. Military service members will receive priority registration in accordance with federal law. There are 3 easy options to register for your Lakeshore class(es):

a. Online Registration (Preferred)

- You will need to log in to MyLTC with your student ID number and password. Online registration access is available 24/7.
- If you have forgotten your password, you can reset it at MyLTC.
- The Chrome browser is recommended for online registration.
- Click on MyLTC drop down for the informational brochure at <u>gotoltc.edu/current-students/</u> technology/ for additional information about MyLTC.

b. In Person

- Hours: 7:30 AM to 5:30 PM Monday-Thursday; 7:30 AM to 3:30 PM Friday.
- The Student Services Welcome Center is located in the lower level of the Lakeshore Building.
- For directions to Lakeshore, visit <u>gotoltc.edu/about-us</u>.

c. Email

- Complete the registration form including signature.
- Email to group-registration@gotoltc.edu.

4. Pay Your Tuition

See PAYING FOR COLLEGE section in this catalog.

5. Print Your Schedule

Find instructions on how to print your schedule from MyLTC at <u>gotoltc.edu/how-to-apply/already-a-student-class/print</u>.

6. Purchase Your Books

The Lakeshore Technical College eCampus Bookstore can be accessed via the Lakeshore website at <u>gotoltc.edu.</u>

ACADEMIC FORGIVENESS

Academic Forgiveness allows returning students a one-time opportunity to request omission of courses from a prior enrollment period from their grade point average. Course grades will remain on the student transcript but not be calculated into the student's GPA. Courses that have already been applied toward a previous degree are not eligible to be forgiven.

Financial aid funding and Satisfactory Academic Progress do not fall under the Academic Forgiveness policy; enrollment/grade history will continue to be a factor when determining financial aid eligibility.

Students must meet with their Program Counselor to discuss application prior to submission. The counselor will assist the student to determine whether repeating a course, or forgiveness is the best option for them.

Students may qualify for Academic Forgiveness under the following conditions:

- Student is moving from one Lakeshore Technical College program to another Lakeshore program.
- Student is returning to Lakeshore Technical College after a two-year period of time away from the college.
- Student had difficulties other than what qualifies for a late drop. (Issues other than verified medical emergencies, etc.)

Students may apply after the first successful semester returning to Lakeshore. Successful is defined as completing Satisfactory Academic Progress (SAP) standards.

Grades below C are eligible to be omitted from GPA calculation. The student will specify course(s) to omit through the Academic Forgiveness Request form.

All course decisions approved for Academic Forgiveness are final and cannot be reversed. If a student changes their program, credit forgiveness is not reversible, and they will need to retake the course if it is required for the new program. Courses that are approved for academic forgiveness will not be eligible to be used as a prerequisite or co-requisite for another course.

Appeal Process: Students that are denied forgiveness for a course or courses may appeal that decision to the Vice President of Student Success.

ATTENDANCE

It is important that all students enrolled at Lakeshore Technical College attend classes regularly to receive the maximum benefit from the educational opportunities provided. Students are expected to abide by the attendance policy established by the instructor as published in the course syllabus.

Students that do not attend class sessions in accordance with the class attendance policy and/or whose irregular attendance is negatively affecting achievement will be entered into Lakeshore's referral process to develop an appropriate plan for student success.

It is the student's responsibility to drop a course if they no longer plan to attend. The refund amount will be based on the Refund Policy outlined in this handbook. Students may drop classes via their MyLTC account or in person at the Student Services desk. Students are unable to drop classes by telephone.

CALENDAR

Two 15-week semesters, and one 8-week summer session are offered. Selected programs are offered at other dates. Fall (December) and spring (May) graduation celebration events are held on campus.



CLASS ADDITIONS, TRANSFERS, & WITHDRAWALS/DROPS

Students may add, transfer, or drop classes without penalty up until the official start of the term via the registration/drop process, either in person or via MyLTC.

Adding Classes:

Once a class has started, division approval is required to register. Approval will be provided via a course add/drop form, which may be obtained from Student Services. The student must register for the class through Student Services.

Dropping Classes:

Students may drop a course at any time in the term either via MyLTC or in person at the Student Services desk. Students who drop a class may be eligible for a refund according to the WTCS Refund Policy. Students are unable to drop courses by telephone. Students who withdraw from a class at the time when more than 60 percent of the class hours had elapsed will receive a grade of WF. Prior to that time, the student will receive a grade of W.

Note: Students are advised to contact their Program Counselor prior to dropping to discuss potential impact on financial aid, refunds, and other educational impacts.

Students are responsible for officially dropping classes or withdrawing from campus for the term. Stopping attendance in class does not constitute dropping a class or withdrawing from a term. Lakeshore Technical College will only drop students from courses if the student initiates a drop as described above. Class fee refunds are issued in accordance with guidelines established by the Wisconsin Technical College System. The amount of the refund received is based on a number of factors, including when the drop occurred and how much class meeting time has elapsed.

COURSE DELIVERY METHODS

Flexible learning options improve accessibility and affordability to many of the same courses offered in a traditional on-campus classroom.

- Accessibility: options to fit your schedule, location, and pace needs.
- Affordability: reduce cost of travel, daycare, and time away from work.
- Same courses: the course outcomes do not change, only the delivery.

Traditional, Video Conference, Online, Blended, Hybrid, Competency-Based Education (CBE), and iFlex

These courses are designed to offer you greater convenience and learning options.

- **Traditional and Technology**-Facilitated courses are delivered in a face-to-face setting. The course may use technology to facilitate instruction.
- Video Conference courses are delivered via network or web conferencing.
- Online course content is delivered 100% through the internet and accessed by students using a web browser in an asynchronous and possibly synchronous format. Courses may require proctored (supervised/onsite) testing. Students are required to complete work by specific deadlines throughout the course. What you will need for online courses:
 - Access to a computer with internet service.
 - Strong motivation to achieve your goal.
 - About 3 hours per credit each week for class work (may vary depending on class, content, skill level, etc.).

- Good time management skills.
- Computer skills in email, internet, and basic computer operations.
- Blended courses use online learning activities to aid in learning the course material and reduce face-to-face instructional time. Less than 50% of the course instruction is delivered via online using the internet combined with face-to-face instruction. For example, a course that normally meets twice a week as a traditional course may only meet once a week or every other week in a blended course. The course schedules show the times the course will meet in a face-to-face format. You will need access to a computer with internet service.
- **Hybrid courses** combine online and face-to-face instruction. At least 50% but less than 100% of course instruction is delivered via online using the internet (accessed by the student using a web browser), combined with face-to-face instruction. A one-time face-to-face course orientation or off-line supervised tests/exams at specified sites may be conducted in conjunction with these courses.
- **iFlex** is a course delivery that lets students have the flexibility of attending in person or online, as their schedule allows. Students have equitable components, such as learning activities, assessments, and recorded lecture content, whether sitting in the classroom or learning online. Structured due dates are present throughout the course. Class time may vary, depending on the individual course. Check the course schedule for meeting times and locations.

What is Competency-Based Education (CBE) at Lakeshore Technical College?

Competency-Based Education has different meanings from institution to institution, but at Lakeshore Technical College we believe that CBE can be defined by the following:

Learn when you want to

We understand students and schedules differ. Lakeshore Technical College offers a personalized, flexible schedule so you can complete your coursework when it fits your life.

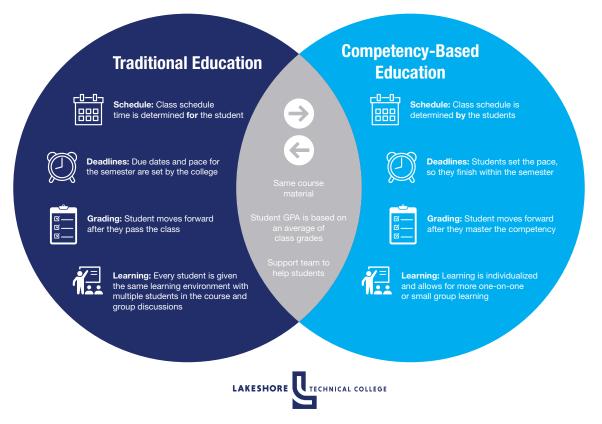
Progress at your own pace

The competency-based education model allows you to demonstrate knowledge when you are ready, allowing you to move through coursework at your own pace. Competency-based education focuses on knowledge and competence, versus time spent in class.

Receive personalized coaching and support

Every student has a success team who is with you every step of the way through your educational journey. Whether it is signing up for classes, navigating college life, helping with homework, or asking questions, the team at Lakeshore is happy and ready to support you.

ACADEMICS



CBE Delivery Format:

Competency-Based Education (CBE) is a delivery format that Lakeshore Technical College offers, just like blended, online, hybrid, and face-to-face instruction. However, because CBE can be applied to multiple courses differently, the CBE delivery was divided into additional delivery methods.

- CBE On-Campus courses offer you the opportunity to set your own flexible schedule to come to campus to complete coursework. Course activities will require you to participate on campus, in person with your instructor and/or classmates. CBE on-campus courses also use the internet or other technology to facilitate instruction. Consult the course schedule to identify the times the class meets.
- CBE Hybrid courses also offer you the opportunity to set your own flexible schedule to compete coursework. The hybrid courses also use the internet or other technology to facilitate instruction. Additional course activities require you to participate in scheduled on-campus or virtual in-person sessions with your instructor and/or classmates. Consult the course schedule to identify the times your class meets.
- **CBE Online** courses can be completed 100% online at times and locations convenient to you. Interactions between you and your instructor can be scheduled virtually during mutually agreed upon times. *Please note that although the course is primarily online, instructors will have in-person and virtual times that students can receive additional instruction and support if they choose.

What is a Competency?

Course Competencies are a major skill, knowledge, or ability students learn and demonstrate mastery of. This is what you will be able to do upon the completion of the course. The competencies of a program are needed for a particular career, ensuring that the material is relevant and that you are workplace-ready for your chosen field.

What is a Pacing Guide?

A Pacing Guide aims to give students a recommended schedule and keep you on track. If you closely follow the Pacing Guide, you should be able to complete the courses you enrolled in by the end of the term.

This Pacing Guide is only a guideline. Depending on your personal motivation and skills, the actual times to complete your courses may differ widely from the guidelines given.

Grades:

Each competency establishes the level of competence (or mastery), which is available to the student in Blackboard. A level of competence must be "met" before a student can begin work on the next competency. Competence is "met" when a student receives a grade of B. CBE courses use the following grading scale:

| Superiorly Met | Α |
|----------------|---|
| Met | В |
| Not Met | F |

Meeting competence is not time-based. The amount of time required to achieve competency will vary from student to student. However, for the purpose of official transcripts and transferability to other institutions, Lakeshore Technical College equates the successful completion of competencies in CBE courses with grades in traditional time-based credit hour courses.

CBE Calendar:

Enrollment terms are traditionally June through August, August through December, and January through May. CBE has flexible start dates allowing students to start more frequently, so students should review their course schedule to determine when their courses start and complete each semester.

CREDIT FOR PRIOR LEARNING

Lakeshore recognizes its responsibility to provide advanced placement status to those students with valid and credible learning experiences that have occurred outside our college classrooms. Credit for Prior Learning, sometimes called Advanced Standing, may be granted for the following situations:

Transfer Credits:

- **1)** Postsecondary credits earned at other Wisconsin Technical College System (WTCS) colleges.
- 2) Postsecondary credits earned at non-WTCS colleges.
- 3) Credits earned by high school students.
- 4) Credits earned by completing a registered apprenticeship.

Other Non-College Education & Training:*

- 1) Subject area competency demonstrated by passing a district or national examination.
- 2) Previous work experience, military training, education or training, or other prior learning demonstrated as comparable in content and rigor to a specific technical college course or courses.

*Students desiring to earn credit for their prior learning from non-college education and training (work/life experience) may be assessed for their prior learning through a prior learning assessment. A prior learning assessment can be a test, portfolio, skills demonstration, or combination of methods. Testing out of a course must be completed within the first two weeks of the course. Not all courses have prior learning assessments. Please contact your Program Counselor at 920.693.1366 for more information.

General Guidelines for Credit for Prior Learning:

Credit for prior learning must be applied toward a specific program at Lakeshore Technical College. Non-program students are not eligible for advanced standing.

- The student must have earned a grade of 2.0 or better (on a 4.0 scale) in the course being considered.
- The course being transferred must be generally equivalent in content and meet or exceed the credit value of the Lakeshore Technical College course.
- Transfer credit may be awarded for up to 75% of the degree, diploma, or certificate requirements. Students must complete a minimum of 25% of the technical/occupational courses required to complete the degree or diploma at Lakeshore.
- Lakeshore reserves the right to place time limits on prior learning for which credit may be granted based on technological changes specific to that field.
- Original transcripts from awarding institutions are required when transferring in college credits.
- If the student chooses to be assessed for their prior learning in a currently enrolled class, it must be completed within the first two weeks of the term and any refund due to the student will follow the Wisconsin Technical College System refund policy for that particular class.
- Credits earned through prior learning assessments are not eligible for financial aid.
- The student does not have to be enrolled in the course to complete a prior learning assessment.
- If the student has been enrolled in the course for longer than two weeks or has been enrolled in the same course at any point in the past, the student may not petition for Credit for Prior Learning.
- Exams are \$50 and Portfolio and Skill Demonstrations are \$90.
- Credit for prior learning for previous work experience will include a \$90 fee.

GRADING

Grading communicates the student's level of competence and/or proficiency at the end of each class. The Lakeshore grades are A, B, C, D, F, P, N, LF, WF, W, TR, WE, IC, R, TA, and AU. The definition and grade point value of each is as follows:

| Grade A • Superior • Superiorly met for CBE courses • Awarded 4 grade points per credit • Included in GPA Grade C • Average • Awarded 2 grade points per credit • Included in GPA | Grade B • Above Average • Met for CBE courses • Awarded 3 grade points per credit • Included in GPA Grade D • Below Average • Awarded 1 grade point per credit • Included in GPA |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Grade F • Failure • Not met for CBE courses • Awarded 0 grade points per credit • Included in GPA | Grade P Pass Awarded 0 grade points per credit Not included in GPA Student achieved the competencies for the class at the required proficiency level. |
| Grade N Non-graded Awarded 0 grade points per credit Not included in GPA The class is not a graded/credit class. | Grade LF Lapsed F Awarded 0 grade points per credit Included in GPA An IC grade that has not been changed to another grade six weeks after the end of that term. |
| Grade WF Withdrawal F Awarded 0 grade points per credit Included in GPA Student withdrew from the class at the time when more than 60 percent of the class hours had elapsed. | Grade W Withdrawal Awarded 0 grade points per credit Not included in GPA Student withdrew from the class after the class had started but before 60 percent of the class hours had elapsed. |
| Grade TR Transfer Awarded 0 grade points per credit Not included in GPA Student achieved the competencies by some other approach than completion of the specific class at Lakeshore and has received advanced standing. | Grade WE Withdrawal for extenuating circumstances Awarded 0 grade points per credit Not included in GPA Student withdrew from the class after it had started due to extenuating circumstances. |
| Grade R A previously failed course will be changed to a final grade of R after a student successfully retakes and passes Not included in GPA | Grade TA Transcripted audit (for high school students ONLY) Not included in GPA |

A complete grading policy may be obtained in Student Services.

Courses forgiven under the Academic Forgiveness policy will be noted on the student transcript with an * and are not included in GPA.

IC (INCOMPLETES)

Students may be eligible to receive an "IC" grade in a class where they have completed 75% of the work for the course and at the discretion of the instructor. The student will then have additional time (up to six weeks), as agreed upon with the instructor, to complete all remaining requirements for a valid grade found on the grading scale. The "IC" grade changes to an "LF" grade six weeks after the last day of the term if there is no other grade given or extension granted. Grades of "IC" are considered as attempted but not completed when calculating percentage of completion for financial aid when determining Satisfactory Academic Progress. The "IC" grade is not calculated into the non-financial aid GPA until the grade has been changed.

R (RETAKE CLASS)

If a student retakes a course, the most recent grade is retained and the previous course grade is changed to a grade of "R." The most recent grade is used to calculate the grade point average. All courses attempted will be shown on the permanent record, but the final cumulative grade point average reflects only the most recent grade.

AU (AUDITING A CLASS)

Students may enroll in a class without desiring a grade. This is called "auditing." An auditing student must register and pay the same fees as students enrolled for credit. The usual withdrawal/refund policy will apply.

No credit is given for a class which is audited. Therefore, the audited class does not count towards credit load or for financial aid. When auditing a class, students may not change enrollment status at a later date to receive credit for that class. Students may, however, retake the class as a regular student and receive credit upon successful completion of the class.

To audit a class, the student must obtain written approval from the instructor of the class before the end of the second week of that class. A Course Audit/Drop/Transfer form with the instructor's signature indicating the audit status must be returned to Student Records for processing.

A student may audit a course as part of an overall educational plan of self-improvement. A student may not audit a course for the sole purpose of assisting another student academically with the course.

Lakeshore reserves the right to restrict the auditing of certain classes.

STUDENT GRADE AND OTHER ACADEMIC CONCERN APPEAL PROCESS

Students may appeal a final grade, assignment grade, or other academic concern through the following process.

All appeals must be initiated in writing no later than twenty-one (21) business days following the submission of the grade. The steps below will be followed.

Step 1

The student is encouraged to communicate with the instructor who assigned the grade to resolve the dispute. The faculty will respond within ten (10) business days.

Step 2

If not resolved, or if the student prefers, the student will contact the Division Dean or Associate Dean. The Division Dean or Associate Dean will conduct a review of the information presented by the student and instructor and respond with a decision within ten (10) business days.

Step 3

The student may appeal the Dean's decision to the Registrar/Student Conduct Officer by submitting a written document describing their specific concerns. The Registrar/Student Conduct Officer then reviews the appeal to determine if it merits further consideration. If the matter does not warrant further consideration, the matter will be considered closed. If further review is warranted, additional information will be collected and provided, at the Registrar/Student Conduct Officer's discretion, to either an Internal Investigation Committee or the Vice President of Instruction.

Step 4a

Internal Investigation Committee will consist of the Vice President of Student Success, a student, a faculty member not associated with the case, and a dean not associated with that division. The Registrar/Student Conduct Officer will serve as an ex-officio member. Students and staff involved will be notified of the decision within fifteen (15) business days. The decision of the Internal Investigation Committee will be considered final for the Lakeshore Technical College process.

Step 4b

The student may appeal the committee's decision, in writing, to the Vice President of Instruction within ten (10) business days of the receipt of the committee's decision. The Vice President of Instruction will meet with the student involved within ten (10) business days. The decision of the Vice President of Instruction will be considered final for the Lakeshore Technical College process.

The College's final decision may be appealed to the Wisconsin Technical College System (WTCS).

GRADUATION REQUIREMENTS

Students are required to see Student Records for an Application for Graduation prior to the last term's program registration. The Lakeshore Technical College District Board will confer an associate degree and technical diploma to students that meet the following graduation requirements:

- Complete program of study with at least a program grade point average (GPA) of 2.0.
- Complete technical/occupational studies courses with a grade of C or higher, P, or TR. Students and staff are to refer to program handbooks, course prerequisites or program curriculum for variations.
- Complete at least 25% of the technical/occupational studies courses at Lakeshore

To calculate your GPA, divide the total grade points received for one term by the number of credits completed. Example: You completed 12 credits this term and you were awarded 4 credits of "A," 4 credits of "B," and 4 credits of "C." Your total grade points are (4x4) + (4x3) + (4x2) = 36 total grade points. Your GPA for the semester is 36 graded points divided by 12 credits = 3.000 grade points per credit / GPA = 3.000.

HONORS RECOGNITION

Lakeshore has academic honors recognition for continuing and graduating students.

Honors Graduate

To receive Graduate Honors at the time of graduation, a student needs to:

- Earn a program GPA of 3.500 to 3.999.
- Complete at least 25% of earned graded credits at Lakeshore.

Honors designations will appear on the student's transcript after graduating from a selected program.

Presidential Honors Graduate

To receive Presidential Honors at the time of graduation, a student needs to:

- Earn a GPA of 4.000.
- Complete at least 25% of earned graded credits at Lakeshore.

Honors designations will appear on the student's transcript after graduating from that program.

Honors cords will be worn by all graduates who earn honors, and an honors medallion will be awarded for those who achieve Presidential Honors for their program credential earned for that graduation ceremony.

Awards Celebration

See STUDENT LIFE (Student Leadership Board) section in this handbook.

Dean's List

Students that have 6 or more term credits and at least a term GPA of 3.500 will qualify for the Dean's list. Student names will be sent to the area newspapers for publication at the end of the fall and spring terms.

Phi Theta Kappa Honor Society

Phi Theta Kappa (PTK) is an international honor society for two-year institutions. PTK recognizes and encourages academic achievement and provides opportunities for individual growth and development through participation in honors, leadership, service, and fellowship activities. Students are invited to join when they have completed 12 or more credits of associate degree coursework or six credits of technical diploma coursework and an overall 3.50 cumulative GPA (counted from the past 5 years). The one-time, lifetime membership fee is \$75. Members are invited to an induction ceremony. Membership will be listed on their diploma/transcripts and members may wear an honorary gold stole at graduation.

Military Honor Cords

In recognition of military service to the United States of America, students who are honorably discharged or currently serving in the U.S. military (active duty, National Guard, or Reserves), or will be commissioned upon graduation, are given the opportunity to wear a red, white, and blue honor cord. Contact Student Records at <u>student.records@gotoltc.edu</u> if you are a current or former service member who chooses to be recognized at the ceremony.

INSTRUCTOR ABSENCE/CLASS CANCELLATION

Instructor absences and subsequent class cancellations will be announced via a text, email, and/or phone call. Students should check their Lakeshore Technical College email and Blackboard as coursework may still be required. Communication will be updated as often as necessary throughout the day. School closings are also posted on the campus website at <u>gotoltc.edu</u>.

PREREQUISITES

Prerequisites for courses are designated in the course descriptions found on the program sheet and the "Find a Class" link on the college website. Registration in a class requiring a prerequisite is permitted by satisfying the prerequisite requirements or with permission of the instructor. Information is available in the Student Services office. Courses may have a specified minimum achievement level required in the prerequisite courses.

SHARED PROGRAMS

Shared programs exist between Lakeshore Technical College and other Wisconsin Technical College System colleges. Students are subject to the same grade and grade point average requirements for class progression. All grades earned in program courses offered by Lakeshore or shared program districts are calculated into the program GPA.

Financial aid is available to those who qualify and will be issued by the degree-granting college. Courses required within the shared program are included in the financial aid credit load.

TRANSFER OF CREDITS TO LAKESHORE TECHNICAL COLLEGE

Students may transfer credits taken at other postsecondary institutions to Lakeshore Technical College. Credits will only be accepted under the following conditions:

- An official transcript must be requested by the student to be sent from the campus where the student took the class(es).
- If the official transcript is not mailed directly from the sending campus, it must be delivered in an unopened, sealed envelope.
- The sending campus must have been regionally accredited at the time the class or classes were taken.
- The student must have earned a grade of C or higher for credits to transfer.
- The student may be required to provide additional information such as course descriptions or course syllabi, in order to complete the transfer process.

TRANSFER OF CREDITS TO OTHER POSTSECONDARY INSTITUTIONS

Lakeshore Technical College credits transfer to a large number of other colleges and universities in Wisconsin and across the country. To transfer credits to another institution, the student must request an official transcript online via MyLTC or the Lakeshore website. Student records, including transcripts, are confidential documents and will be only sent out upon your online request. Official transcripts will not be sent if there is a past-due balance on a student's account.

Credit transferability is determined by the receiving institution. Lakeshore's Registrar will assist students with transferability concerns.

ACCIDENT INSURANCE (Student mandatory)

All students enrolled in program courses will automatically be enrolled in the mandatory student accident insurance program. This provides \$50,000 of coverage at 100% if a student is injured in an accident while in the classroom, lab, clinical or intern site. The student is also covered while participating in any college or club sponsored event, and while driving to and from class or clinical/intern site. Students enrolled in distance learning, online, basic skills, or adult and continuing education courses would not be covered. The cost for this insurance is \$4 per student per term and will be added to the student's account. Students requesting to waive this coverage must contact the Financial Services office. To view your personal coverage information, edit your primary address, or generate an ID card, visit <u>Gallagher Student Health and Special Risk</u>.

FEES

The fee structure is established and approved through the Wisconsin Technical College System Administration and Board. Payment of fees is required to complete the admission and pre-registration process. Please refer to the online fee schedule for current pricing.

- **Program Fee:** a program fee will be charged for all credit classes. Vocational apprenticeship classes will be charged for each credit equivalent. The program fee covers registration, class, and lab fees.
- **Supplemental Fee:** a supplemental fee is charged to part- and full-time students taking credit classes. These monies help support graduation, student employment service, health service, Student Leadership Board, clubs, student leadership and development activities, and student cultural and social events. Adult Education/English Language instruction and 38.14 contracts are exempt from paying the supplemental fee.
- Material Fee: a material fee is charged for various materials used in a given course.
- **Test-outs Fee:** a student may attempt to test out of certain classes by taking an examination. The cost is \$50 per test-out. The College Level Examination Program (CLEP) total cost is \$118.
- Accuplacer Fee: Apprentice students required to take the Accuplacer will be charged \$25.
- Background Information Disclosure Fees: This is required for students involved in identified programs. The cost is \$40.
- Lakeshore Technical College Transcript Requests Fees: Official transcripts are \$10 per transcript and must be requested online. Unofficial transcripts have no fee and may be printed via MyLTC.
- GED/HSED Transcript Requests: GED/HSED transcripts and credentials must be requested from the State of Wisconsin Department of Public Instruction (official bearer of the record); contact the department at 800.768.8886 or <u>dpi.wi.gov/ged/transcripts</u>.
- Accuplacer Test Result Transcript Requests Fee (for use at other colleges): A \$10 fee is charged for transcript requests made in writing, in person, by mail, email or fax. Contact Testing Services at 920.693.1184 or <u>testing@gotoltc.edu</u>. Transcripts are mailed within 48 hours. Accuplacer test results cannot be printed from MyLTC.
- Accident insurance is \$4 per student/per term and will be added to the student's account.
- **Diploma reprint fee** is \$10.
- International Student Admission Processing fee is \$100.
- Additional fees may apply.

FINANCIAL AID

Financial Aid services are in the Student Services area. Financial Aid staff are available to help you apply for financial aid and complete other financial aid requirements. Lakeshore Technical College offers Title IV federal and state financial aid which includes grants, loans, and work-study jobs, along with Veteran benefits to students who qualify. Students wishing to receive financial aid must complete a Free Application for Federal Student Aid (FAFSA) each academic year and complete additional Lakeshore Financial Aid forms

and provide documentation, as necessary. "The definition of an academic year for purposes of distributing financial aid funds is 30 weeks of instruction and 24 semester credit hours. The academic year consists of a fall term and a spring term. An 8-week summer term is also available."

Book Charges

Book charges to purchase required books and supplies are available to students with pending financial aid in excess of tuition and fees for the semester. Book charges are only valid at the Lakeshore Technical College Bookstore. Students are not required to purchase books and supplies at the Lakeshore Bookstore and are not required to exercise the option to utilize the book charge process. Book charges are typically capped at \$900 with special considerations occurring through the Lakeshore Financial Aid Office. Book charges are available 3 weeks prior to the start of the term through the 10th week of the term.

Disbursement

Funds are paid 3 weeks into the academic semester for fall and spring, after July 1 for summer semester, and weekly thereafter. You must have begun participation in at least one of your scheduled classes for financial aid to be paid. When financial aid is paid, it is applied to your student account to pay for any existing charges. Any excess is released as a refund via a paper check or direct deposit as directed by the student.

Eligibility

Generally, a student must meet the following eligibility criteria to receive financial aid: be admitted to an eligible degree-seeking program at Lakeshore; be a citizen, permanent resident of the United States, or other eligible non-citizen as detailed at fafsa.gov; have a FAFSA with a successful citizenship match (by the Social Security Administration for U.S. citizens or the United States Citizenship and Immigration Services in the Department of Homeland Security for eligible non-citizens); maintain Satisfactory Academic Progress (SAP) according to the SAP policy; be in compliance with Selective Service Registration; have a high school diploma, HSED, or GED; be enrolled at least halftime for federal and state funded financial aid programs (those less than halftime may only be eligible for the Federal Pell grant); resolve any drug conviction issues; fill out all required documents to complete a financial aid file; only take coursework necessary for the program being pursued; participate in coursework; and complete any necessary applicable loan requirements.

Enrollment Level for Financial Aid

Students taking 12 or more credits are considered fulltime; 9–11 credits are considered three-quarter time; 6–8 credits are considered halftime; and 1–5 credits are considered less than halftime. Students may need to complete 16 to 18 credits each semester to graduate on time.

Types of Financial Aid

Need-based awards offered include: Federal Pell Grant; Federal Supplemental Education Opportunity Grant (SEOG); Direct Subsidized Student Loan; Federal Work Study; Wisconsin Grant; Talent Incentive Program Grant (TIP); Minority Retention Grant; Fund for Wisconsin Scholars; Bureau of Indian Affairs Grant; Wisconsin Indian Assistance Grant.

Non-need-based awards offered include: Direct Unsubsidized Student Loan; Additional Unsubsidized Student Loan; Parent Plus Loan; Nursing Loans; Wisconsin Technical Excellence Scholarship; Wisconsin Covenant Grant; Wisconsin Foundation Grant; and Wisconsin Academic Excellence Scholarship.

Satisfactory Academic Progress (SAP)

The U.S. Department of Education requires financial aid recipients to maintain satisfactory academic progress (SAP). SAP measures both qualitative (grade point average process) and quantitative (pace and

number of credits earned). All attempted undergraduate credits, including repeated courses, withdrawals, incompletes, and remedial courses, will be calculated in your SAP, regardless if you have received financial aid for them.

- Satisfactory Academic Progress will be calculated at the end of each academic semester. Students are expected to receive a cumulative grade point average (GPA) of at least 2.0 and complete at least 66.67% of their cumulative credits attempted to remain in good standing.
- **Pace Measure** is based on the cumulative number of program credits attempted, not to exceed 150 percent of credits required in the student's program. Students in excess of 150 percent may appeal and develop a maximum timeframe plan to continue financial aid eligibility.
- **Qualitative Measure** is based on a student's cumulative grade point average (GPA). Students must maintain a cumulative GPA of 2.0 to remain in good standing.
- **Quantitative Measure** is based on the cumulative satisfactory completion of cumulative attempted credits. Students must maintain a cumulative satisfactory percentage of completion of 66.67% or higher to remain in good standing.
- **Financial Aid Warning** is when a student fails to meet either the qualitative or quantitative measure, or both. The student is still eligible to receive financial aid while on warning.
- **Financial Aid Suspension** is when a student fails to meet either the qualitative or quantitative measure after the warning period. The student is no longer eligible to receive financial aid.
- Appealing Financial Aid Suspension is when the student appeals to have financial aid reinstated due to extenuating circumstances. Extenuating circumstances must be outside of the student's control, have documentation, and be explained in the Financial Aid Appeal Form.
- **Financial Aid Probation** is when the student has an approved appeal. This allows the student to receive another semester of financial aid.
- **Financial Aid Academic Plan** is when the student has an approved academic plan. This allows the student to continue to receive financial aid as long as the academic plan requirements are followed. Students must meet cumulative satisfactory academic progress by term (versus cumulative) to remain in good standing.

A full description of the SAP policy can be found at <u>gotoltc.edu/financial-aid/eligibility/satisfactory-academic-progress</u>.

PAY YOUR TUITION

Lakeshore Technical College payment methods include cash, check, money order, credit card (Visa or MasterCard), a completed Financial Aid Award, a third-party authorization, and the Lakeshore payment plan. Refer to MyLTC for detailed payment plan options and dates.

Students anticipating expenses to be paid by an agency such as the Workforce Innovation and Opportunity Act (WIOA), Trade Adjustment Act (TAA), Veterans Benefits, or Department of Vocational Rehabilitation must provide an authorization form detailing the course(s) and fees approved for payment.

Students who have not been awarded financial aid from Lakeshore's Financial Aid Office and elect to sign a payment plan agreement must follow the payment plan guidelines. Students are required to pay a nonrefundable participation fee at the time of signing up for the payment plan unless the student chooses the auto-withdrawal option for payment.

Any unpaid balance is the responsibility of the student. It is the student's responsibility to ensure all applicable financial aid, third-party payments, and other outside payments are applied to their account as expected. Balances not paid by the due date are subject to:

- A late payment fee of \$100 for failure to pay by the due date; \$100 maximum per semester.
- Referral to an outside collection agency and collection costs, and to the Tax Refund Intercept Program or State Debt Collection.
- The withholding of transcripts, grades, diploma, etc.
- Not being able to register until balances are paid.

Up-to-date billing information is found within MyLTC.

Agency Assistance

Students who receive financial assistance through agencies such as the Bay Area Workforce Development, Division of Vocational Rehabilitation, etc., should contact the Student Billing staff in Student Services if they have questions. An authorization from the agency is needed to charge tuition, books, fees, and supplies at the college. Some agency regulations require strict and regular attendance. Students are responsible for any balances unpaid by the agency.

Payment Options:

- Lakeshore Technical College accepts a variety of payment methods:
 - Cash, check, credit cards, money order, and electronic funds transfer
 - Scholarships
 - Financial aid
 - Employer/Agency Funding. Authorization must be on file at the time of registration, or an Agency Payment Agreement form must be completed. Forms are available at Student Services.
 - Payment plan
 - Employee Reimbursement Payment Agreement (requires a payment of \$50 per class, Lakeshore Employee Reimbursement form, and student's employer's Human Resource policy.) Contact Student Billing for more information.
 - Registration on or after the stated tuition due date for a semester will require immediate payment of tuition and fees.

Past Due Fees:

- Past due fees owed to Lakeshore Technical College results in a hold placed on your record, prohibiting further services. The hold remains in effect until the financial obligation has been satisfied.
 - Students with outstanding balances will not be allowed to register.
 - Lakeshore reserves the right to require upfront payment from a student for future registrations.
 - Transcripts, diplomas, and certificates will not be released.
 - Past due balances may result in a referral to an outside collection agency and collection costs, and to the Tax Refund Intercept Program or State Debt Collection.
 - If a returning student has gone to collection agency more than 2 times and has cleared their balance, they will have a cash only hold. This will allow a student to register if payment is made in full at the time of registration or financial aid is put in place as anticipated on their account.
- To view your account summary, visit MyLTC and click on "Student Center" and "Finances."
- Send communications to:
 - Lakeshore Technical College Attn: Student Billing 1290 North Avenue Cleveland, WI 53015

REFUNDS

Class Refund

When a student drops a class, the amount of refund received is calculated in accordance with the Wisconsin Technical College System refund schedule. That schedule is based on a number of factors, including when the withdrawal occurred and how much of the class meeting time has lapsed.

- If students withdraw on or before the first day of class, they are entitled to a fee refund equal to 100% of the fees.
- If students withdraw before or at the time 10% of the course's potential hours of instruction have been completed, they are entitled to a fee refund equal to 80% of the fees.
- If students withdraw after 10% but before more than 20% of the course's potential hours of instruction have been completed, they are entitled to a fee refund equal to 60% of the fees.
- If students withdraw after 20% of the course's potential hours of instruction have been completed, they are not entitled to a fee refund.
- No refunds will be considered for advanced standing and test-out fees.
- Students seeking advanced standing in classes they want to enroll in or are enrolled in need to complete testing out of the class within 14 days of the term start date in order to receive a full class refund.

If a student received financial aid to pay for the term, that money may be due back to financial aid.

Refund Appeals

All refund appeals must be initiated by sending the completed Lakeshore Technical College Request for Refund Appeal with proper documentation to the Registrar no later than 42 calendar days from the end of the term. A refund request made after the 42-day grace period will not be accepted and you will be responsible for payment. Refunds for extenuating circumstances (situations outside of your control) will be made at Lakeshore's discretion.

Disputed Fee Assessment

Disputes regarding registration, withdrawals, and related fee assessments or refunds MUST be brought to the attention of Student Billing and/or the Registrar during the semester in which the registration and related fee assessment occurred. Lakeshore Technical College's obligation to follow up on such disputes does not extend beyond the term the disputed charges took place.

SCHOLARSHIPS

The Lakeshore Technical College Foundation awards scholarships to assist students with the costs of tuition, fees, and books for both fall and spring semesters. Scholarship selection criteria differs depending on the opportunity, and can include, but are not limited to financial need, merit, program enrollment, and general student success. Lakeshore Foundation scholarships are funded by charitable donations from local foundations, Lakeshore staff, businesses, friends, and alumni who elect to invest in their community by supporting technical education, the college, and its students.

The Lakeshore Foundation scholarship application and information can be found on MyLAKESHORE. Enrolled students can go to their "MyLAKESHORE" page and click on the orange and yellow icon for AwardSpring and sign in with their Lakeshore username and password to see a list of scholarships and complete an application. For questions, please reach out to the Advancement team at LTCFoundation@ gotoltc.edu.

VETERANS SERVICES

Lakeshore Technical College is approved by the State Approving Agency (SAA) at the Wisconsin Department of Veterans Affairs (WDVA) for enrollment of those persons eligible to receive federal GI Bill® education benefits. The SAA approves specific programs offered at specific locations for veterans and other eligible persons to receive federal veteran's education benefits under Title 38 of the U.S. Code. Please note: Students must complete and submit necessary forms, including proof of eligibility for federal VA benefits and the Lakeshore Veterans Education Benefits Request form, to initially receive state and/or federal benefits and avoid late fees. Veterans continuing to receive federal benefits must complete the Lakeshore Veterans Education Benefits Request form each semester. For more information, contact your County Veteran's Service Officer or Lakeshore's Financial Aid/Veterans Office at LTCVETS@gotoltc.edu or 920.693.1118.

Effective January 2020, the Harry W. Colmery Veterans Educational Assistance Act of 2017 (also known as the "Forever GI Bill"), Section 107, requires Post-9/11 GI Bill® monthly housing payments to be calculated based on the location of attendance. Contact your School Certifying Official for specific details.

Veterans Standards of Progress Policy for Federal Benefits

To obtain federal veterans educational benefits, government regulations require you to maintain satisfactory academic progress in the program that you are enrolled. Academic suspension will be reported to the Veterans Administration, as officials at Lakeshore Technical College are obligated to do so. Failure to meet satisfactory progress requirements will result in:

Semester GPA of 1.0 to 1.99: Veterans academic probation during the next semester of enrollment. During the semester you are on veteran's academic probation you must achieve satisfactory progress with a 2.0 semester GPA or lose eligibility for benefits the following semester.

Semester GPA of .99 or lower: Veterans academic suspension. If you earn less than a 1.0 grade point average for any semester, you will lose your eligibility for veteran's benefits. If you become ineligible for veterans' benefits, you can re-establish eligibility by seeking services through your Lakeshore Program Counselor in order to resolve academic or other problems and to establish a meaningful plan for successful completion of your education or training. A specific request for resumption of veteran's benefits following an interruption due to unsatisfactory progress or conduct must be filled out by you and your counselor and submitted to the veterans certifying official at Lakeshore to determine whether further payments of veteran's educational assistance allowance should be authorized. This form will be mailed to you with notification of your unsatisfactory progress. You can re-establish eligibility in this manner only one time. If you are suspended a second time, you will need to take six credits and pass with a 2.0 semester GPA or greater in one semester. You will be able to resume your benefits the semester following this.

The law requires student payment for a course which is not used in computing graduation requirements unless extenuating circumstances are shown. If a student does not meet the required course grade, it can be retaken until required grade is obtained.

If you feel there are extenuating circumstances, you should notify the Veterans Administration of the circumstances. The Veterans Administration will then make a decision regarding whether the extenuating circumstances are beyond your control.

If you do write to the Veterans Administration, explain the circumstances in detail in order that a fair and just decision can be made. Be sure to include your Veterans Administration file number. Correspondence can be submitted by postal mail or through an online request at <u>https://ask.va.gov</u>. If sending by mail, use the address below.

Veterans Administration Regional Office PO Box 4616 Buffalo, NY 14240-4616

Veterans Standards of Progress Policy for Wisconsin GI Bill Benefits

As of January 1, 2014, a student must have at least a 2.0 cumulative GPA to qualify for benefits. You will be responsible for any costs associated with attending classes if your cumulative GPA is below 2.0. This will be a requirement for every semester.

If you lose your WI GI Bill eligibility because of your GPA but later improve your cumulative GPA to at least 2.0, you will be able to use the WI GI Bill during the next semester in which you enroll for classes.

Please note, individual program handbooks may detail policies that are required for specific programs and may supersede general college policies.

ACCESS TO STUDENT RECORDS - FERPA

Student Records Confidentiality Notice

The Family Educational Rights and Privacy Act (also known as FERPA or the Buckley Amendment) affords students certain rights with respect to their education records. They are:

- The right to inspect and review the student's educational records within 45 days from the day the college receives a request for access. You should submit written requests that identify the record(s) you wish to inspect to Student Records or the Registrar.
- The right to request the amendment of the student's education records that the student believes is inaccurate or misleading. You should write to the Registrar and clearly identify the part of the record you want changed and specify why it is inaccurate or misleading.
- The right to consent to disclosures of personally identifiable information contained in the student's educational records, except to the extent that FERPA authorizes disclosure without consent.
- The right to refuse to permit the college to designate disclosure of personally identifiable information about the student as directory information which is not subject to restrictions on disclosure.

The following information is designated directory information: name, city and state of residence, student email address, field(s) of study, current enrollment status, dates of attendance, degrees received, honors and awards received (including selection to a dean's list or honorary organization), and photos and videos of students for use in college presentations/displays, news releases, publications, and websites.

If you do not wish to have your information designated as directory information and disclosed to members of the college community and to requesters from outside of the college, you must inform Student Records in writing.

Students may consent to the release of non-directory information by submitting a form for Authorization to Release Non-Directory Information; the form is available from the Student Records office.

Under sections 99.31(a) and 99.34 of Title 34 of the Code of Federal Regulations, applying the Family Educational Rights and Privacy Act, should a Lakeshore Technical College student seek to enroll in another college or university to complete a course or degree, Lakeshore may share personally identifiable data with that college or university's education officials without the student's prior approval. Lakeshore Technical College may also share personally identifiable information with college officials who have a legitimate educational interest.

Officials of the college are defined as:

- Persons employed by the school in an administrative, supervisory, academic, research, or staff position.
- Persons serving on school governing bodies.
- Persons employed by or under contract to the college to perform a specific task, such as an attorney or auditor.
- An official has legitimate educational interest if they need to:
 - Perform duties specified in their job description or under terms of contractual agreement.
 - Provide campus services related to a student such as advising, financial aid, and counseling.
 - Conduct tasks related to a student's education or campus discipline.

Lakeshore maintains a record of all releases of student records. Students may forward questions concerning FERPA or request to view a copy of what was shared with other colleges by contacting the Registrar at 920.693.1733. Student data information may be used by the college under allowed exceptions in accordance with the respective laws.

The student has the right to file a complaint with the U.S. Department of Education concerning alleged failures by the college to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:

Family Policy Compliance Office U.S. Department of Education 600 Independence Avenue, S.W. Washington, DC 20202-4605

For more information on FERPA, please visit the website for the Department of Education at ed.gov.

ACCOMMODATIONS FOR RELIGIOUS BELIEFS

In compliance with Wisconsin state statute 38.04(16), as outlined in TCS Chapter 14 of the WI Administrative code, reasonable accommodation will be made for a student's sincerely held religious beliefs. Students may request a reasonable accommodation with regard to scheduling examinations and/or other academic requirements. The request must be in writing and submitted to the instructor five school days prior to the established due date. If appropriate, the instructor will provide a means of accommodation in a timely manner without any prejudicial effect. All requests for accommodations based on religious beliefs will be kept confidential.

Any student with a question or concern about accommodations for religious beliefs should contact the Manager of Access, Equity, & Inclusion at <u>nicole.yang@gotoltc.edu</u> or 920.693.1120 (TTY 711).

CONCERNS

Students are encouraged to use the following procedure to report concerns. A concern is any written expression of dissatisfaction about the College that is not a complaint (see above). Concerns may involve a Lakeshore Technical College faculty or staff member, administrator, another student, facilities, services, etc. To submit a concern about the campus please complete a Questions, Concerns and Suggestions form located at: <u>cm.maxient.com/reportingform.php?LakeshoreTC&layout_id=6</u>

Student concerns will be addressed via the following procedure:

Step 1

Student completes and submits the Questions, Concerns and Suggestions form. The form is available online at <u>cm.maxient.com/reportingform.php?LakeshoreTC&layout_id=6</u>.

Step 2

The Registrar/Student Conduct Officer will contact the student to gather any information regarding the concern that has been raised. The Registrar/Student Conduct Officer will also make every attempt to meet with the other party/parties related to the shared concern to gather additional information.

Step 3

The Registrar/Student Conduct Officer will attempt to resolve the concern by scheduling a meeting with the parties involved, if necessary. The Registrar/Student Conduct Officer will serve as a neutral third party during this meeting which is designed to follow a process to resolve the concern informally. The goal of the

mediation process is to provide a resolution to the concern that is acceptable to both parties. If a meeting is deemed to not be necessary, the Registrar/Student Conduct Officer will relay the concern and all related information to the individual or campus office that is best positioned to address and resolve the concern.

Step 4

If the mediation meeting fails to resolve the matter, it will be referred to one of two Vice Presidents for a final decision. If instructional in nature, the Vice President of Instruction would be the final step in the process. If the matter involves anything other than instruction concerns, the Vice President of Student Success would be the final step in the process.

CRIME AWARENESS & CAMPUS SECURITY (CLERY ACT)

Lakeshore Technical College is committed to maintaining a safe and secure environment on campus. As part of the Crime Awareness and Campus Security Act of 1990, the college provides complete information about security awareness, crime prevention, crime reporting, crime statistics, and other related policies. This information is communicated annually to students and staff, through the Annual Security Report.

FREEDOM OF EXPRESSION

Freedom of thought, inquiry, speech, and lawful assembly are fundamental rights of all persons. These rights include the freedom to express opinions; to hear, express and debate various views, no matter how unpopular; and to voice criticism. Free speech is uniquely important to Lakeshore Technical College as it brings about a free interchange of ideas integral to the College's fundamental mission of teaching, research, and public service.

The College encourages students to present ideas, express their individuality and culture, and be open to thoughts or lifestyles that differ from their own. The College expects all students will present themselves in a respectful manner that does not endanger, threaten, or infringe on the rights of others. The College also expects students will not conduct themselves in a manner that will infringe on another individual's education or the mission of the College. Students that fail to meet these expectations can be referred to the Student Conduct Process.

MILITARY SERVICE MEMBER SPECIAL CIRCUMSTANCES READMISSION & REFUND POLICY

Students who serve in the National Guard, Reserves, or Active Duty stationed locally who are ordered into active military service in the Armed Forces of the United States or who are requested to work for the federal or state government during a national emergency, limited national emergency, or state emergency are provided priority readmission upon their return. Individuals in these circumstances will be eligible for 100% refund of tuition and fees for the current term.

Students who are forced to withdraw from classes due to the activation of a close family member (father, mother, stepfather, stepmother, spouse or life-partner) are provided priority readmission upon their return. Individuals in these circumstances will be eligible to submit a refund appeal request citing military activation as the extenuating circumstance. This appeal, if granted, may result in a 100% refund of tuition and fees.

Individuals seeking a refund of tuition and fees are required to provide a copy of the activation orders to the campus Registrar.

Students who choose to stay enrolled and/or complete their coursework may do so in consultation and permission from their instructor(s).

NON-REGISTERED INDIVIDUALS IN THE CLASSROOM

To preserve the integrity of the educational environment, non-registered individuals are not allowed in Lakeshore Technical College classrooms, labs, shops, or designated testing areas, except when the non-registered individuals are part of the instructional activities. Exceptions may be made in cases of emergencies and with prior approval from the Dean or their delegate.

POLITICAL ACTIVITIES ON COLLEGE PREMISES

The care, control, and management of the campus of the Lakeshore Technical College, at all locations, is vested within the College District Board and Office of the College President. The College's Political Activities policy can be found here.

STANDARD OF EVIDENCE

Lakeshore Technical College uses the preponderance of evidence standard in all matters involving students. This includes student code of conduct (academic and non-academic), Title IX, and equity cases. The preponderance of evidence standard is defined as such that a party has shown that its version of facts, causes, damages, and fault is more likely than not to be the correct version.

STUDENT CODE OF CONDUCT

Nonacademic Misconduct

Nonacademic Conduct Subject to Disciplinary Action. Lakeshore Technical College may discipline a student for engaging in, attempting to engage in, or assisting others to engage in any of the following types of nonacademic misconduct:

- (1) Aiding or Abetting. Aiding, abetting, or procuring another person to violate any provision of the Student Code of Conduct.
- (2) Alcohol. Use, possession, presence, manufacture, distribution, or being under the influence of alcoholic beverages except as expressly permitted by law and College policy.
- (3) Arson. Individuals are prohibited from intentionally setting fires unless such action is part of a bona fide academic lesson or experience.
- (4) **Dangerous Conduct.** Conduct that endangers or threatens the health or safety of oneself or another person.
- (5) Disorderly Conduct. No person may engage in violent, abusive, indecent, profane, boisterous, unreasonably loud, or otherwise disorderly conduct under circumstances in which the conduct tends to cause or provoke a disturbance, in college buildings or on college lands.
- (6) **Drugs.** Manufacturing, distribution, possession, use or being under the influence of any drug or controlled substance or being in possession of drug paraphernalia or equipment used to manufacture, grow, or distribute drugs or controlled substances.
- (7) Failure to Comply. Failure to comply with the directions of College officials or law enforcement officers acting in performance of their duties and/or failure to identify oneself to these persons when requested to do so; refusal or failure to leave premises because of conduct prescribed by this code.
- (8) False Information. Acts of dishonesty, including but not limited to the following: Furnishing false information to the College, any College official, faculty member or office.

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- (9) Fire Alarms and Safety Equipment. Tampering with fire alarms or safety equipment is prohibited. This is including, but is not limited to, fire hydrants, fire hoses, extinguishers, AEDs, and fire alarm pull stations.
- (10) Forgery or Falsification. Unauthorized possession of or fraudulent creation, alteration, or misuse of any college or other governmental document, record, key, electronic device, or identification.
- (11) Harassment. Conduct defined in s. 947.013, Stats.
- (12) Hazing. Conduct defined in s. 948.51, Stats.
- (13) Misuse of Computing Resources. Conduct that involves any of the following:
 - (a) Failure to comply with laws, license agreements, and contracts governing college computer network, software, and hardware use.
 - (b) Use of college computing resources for unauthorized commercial purposes or personal gain.
 - (c) Failure to protect a personal password or college-authorized account.
 - (d) Breach of computer security, invasion of privacy, or unauthorized access to college computing resources.
 - (e) Other violations of Lakeshore's Computer Use Policy for College Students.
- (14) Noncompliance with Disciplinary Sanctions. Conduct that violates a sanction, requirement, or restriction imposed in connection with previous disciplinary action.
- (15) Serious and Repeated Violations of Municipal Law. Serious and repeated off-campus violations of municipal law.
- (16) Sexual Assault. Conduct defined in s. 940.225, Stats.
- (17) Stalking. Conduct defined in s. 940.32, Stats.
- (18) Theft. Attempted or actual theft of College property or the property of others.
- (19) Unauthorized Entry or Use. Unauthorized entry into or use of College buildings and grounds, including roofs, ledges, balconies; unauthorized erection or use on College property of any structures including but not limited to tents, huts, gazebos, shelters, platforms, and public address systems.
- (20) Unauthorized Recording. Any unauthorized use of electronic or other devices to make an audio or video record of any person while on College premises without his/her prior knowledge, or without his/her effective consent when such a recording is likely to cause injury or distress. This includes, but is not limited to, surreptitiously taking pictures of another person.
- (21) Unauthorized Use of or Damage to Property. Unauthorized possession of, use of, tampering with, damage to, or destruction of College property or the property of others.
- (22) Violation of Criminal Law. Conduct that constitutes a criminal offense as defined by state or federal law.
- (23) Violation of College Rules. Conduct that violates any published college rules, regulations, or policies, including provisions contained in college contracts with students including program handbooks.
- (24) Weapons or Dangerous Items. Possession or use of firearms, explosives, dangerous chemicals, or other dangerous weapons or instruments on College premises or use of any such item unless part of an approved academic activity (this includes but is not limited to BB guns, Airsoft guns, Mace, switchblades and knives, or swords with blades over four inches).

Disciplinary Procedure:

- (1) **Process.** The Registrar/Student Conduct Officer may proceed in accordance with this section to impose, subject to hearing and appeal rights, one or more of the disciplinary sanctions listed under "disciplinary sanctions."
- (2) Conference with Student. When the Registrar/Student Conduct Officer concludes that proceedings under this section are warranted, the Registrar/Student Conduct Officer shall promptly contact the student in person, by telephone, or by electronic mail to offer to discuss the matter with the student. The purpose of this discussion is to permit the Registrar/Student Conduct Officer to review with the student the basis for his or her belief that the student engaged in nonacademic misconduct, and to afford the student an opportunity to respond. If the student does not respond to the Registrar/Student Conduct Officer may proceed to make a determination on the basis of the available information.
- (3) Determination by the Investigating Officer that No Disciplinary Sanction is Warranted. If, as a result of a discussion or review of available information, the Registrar/ Student Conduct Officer determines that nonacademic misconduct did not in fact occur, or that no disciplinary sanction is warranted under the circumstances, the matter will be considered resolved without the necessity for further action.
- (4) Process Following Determination by the Registrar/Student Conduct Officer that Nonacademic Misconduct Occurred.
 - (a) If, as a result of a discussion or review of available information, the Registrar/Student Conduct Officer determines that nonacademic misconduct did occur and that one or more of the disciplinary sanctions listed under should be recommended, the Registrar/Student Conduct Officer shall prepare a written report which shall contain all of the following:
 - **1.** A description of the alleged misconduct.
 - **2.** A description of all information available to the college regarding the alleged misconduct. Such information shall be available to the student upon request, except as may be precluded by applicable state or federal law.
 - **3.** Specification of the sanction to be imposed.
 - **4.** Notice of the student's right to an appeal.
 - **5.** A copy of this code of conduct and of the institutional procedures adopted to implement this section.
 - (b) The written report shall be delivered to the student.
 - (c) A student who receives a written report under this section has the right to appeal, as described in the following section, to contest the determination that nonacademic misconduct occurred, the choice of disciplinary sanctions, or both.
 - Where the disciplinary sanction sought is one of those listed (a) to (h), and if the student desires a hearing, the student shall file a written request with the Registrar/Student Conduct Officer within 10 days of the date the written report is delivered to the student. If the student does not request a hearing within this period, the determination of nonacademic misconduct shall be regarded as final, and the disciplinary sanction sought shall be imposed.

2. Where the disciplinary sanction sought is one of those listed (i) to (j), the Registrar/Student Conduct Officer shall forward a copy of the written report under to the Vice President of Student Success. The Vice President for Student Success shall, upon receipt of the written report, proceed to schedule a hearing on the matter. A hearing shall be conducted unless the student waives, in writing, the right to such a hearing.

Hearing:

- (1) A student who requests an appeal hearing, or for whom a hearing is required, shall have the right to decide whether the matter will be heard by the Vice President of Student Success or a hearing committee. If the student does not request a hearing, the matter will be heard by the Vice President of Student Success.
- (2) If a student requests a hearing, or a hearing is required to be scheduled due to the sanction being sought, the Vice President of Student Success shall take the necessary steps to convene the hearing and shall schedule it within 15 days of receipt of the request or written report. The hearing shall be conducted within 45 days of receipt of the request or written report, unless a different time period has been mutually agreed upon by the student and Registrar/Student Conduct Officer.
- (3) (3) No less than 5 days in advance of the hearing, the Vice President of Student Success or hearing committee shall obtain from the Registrar/Student Conduct Officer, in writing, a full explanation of the facts upon which the determination of misconduct was based, and shall provide the student with access to or copies of the Registrar/Student Conduct Officer's explanation, together with any other materials provided to the Vice President of Student Success or hearing committee by the Registrar/Student Conduct Officer.
- (4) The hearing shall be conducted in accordance with the following guidance and requirements:
 - (a) The hearing process shall further the educational purposes and be reflective of the college's commitment to student dignity, equity, and non-discrimination. The process need not conform to state or federal rules of criminal or civil procedure.
 - (b) The student shall have the right to question adverse witnesses, the right to present information and witnesses, the right to be heard on his or her own behalf, and the right to be accompanied by an advisor of the student's choice. The advisor may be a lawyer. The advisor may counsel the student, but may not directly question adverse witnesses, present information, or witnesses, or speak on behalf of the student except at the discretion of the hearing examiner or committee. In accordance with the educational purposes of the hearing, the student is expected to respond on his or her own behalf to questions asked of him or her during the hearing.
 - (c) The Vice President of Student Success or hearing committee:
 - **1.** Shall admit information that has reasonable value in proving the facts, but may exclude immaterial, irrelevant, or unduly repetitious testimony.
 - 2. Shall observe recognized legal privileges (confidentiality).
 - **3.** May take reasonable steps to maintain order, and to adopt procedures for the questioning of a witness appropriate to the circumstances of that witness's testimony, provided, however, whatever procedure is adopted, the student is allowed to effectively question the witness.

- (d) The Vice President of Student Success or hearing committee shall make a record of the hearing. The record shall include a verbatim record of the testimony, which may be a sound recording, and a file of the exhibits offered at the hearing. The student charged with misconduct may access the record, upon the student's request.
- (e) The hearing examiner or committee shall prepare written findings of fact and a written statement of its decision based upon the record of the hearing.
- (f) A Vice President of Student Success's or hearing committee's finding of nonacademic misconduct shall be based on one of the following standards of evidence:
 - **1.** Clear and convincing evidence, when the sanction to be imposed is listed in Disciplinary Sanctions (1) (i) to (j).
 - **2.** A preponderance of the evidence, when the sanction to be imposed is listed in Disciplinary Sanctions (1) (a) to (h).
 - **3.** A preponderance of the evidence, regardless of the sanction to be imposed, in all cases of sexual harassment and sexual assault.
- (g) The Vice President of Student Success or hearing committee may impose one or more of the disciplinary sanctions listed (a) to (h) that differs from the recommendation of the Registrar/Student Conduct Officer. Disciplinary sanctions listed (i) to (j) may not be imposed unless previously recommended by the Registrar/Student Conduct Officer.
- (h) The hearing shall be conducted by the Vice President of Student Success or hearing committee, and the college's case against the student shall be presented by the Registrar/Student Conduct Officer or his or her designee.
- (i) The decision of the Vice President of Student Success or hearing committee shall be prepared within 14 days of the hearing and delivered to the student. The decision shall become final within 14 days of the date on the written decision unless an appeal to the College President is taken.
- (j) If a party fails to appear at a scheduled hearing and to proceed, the Vice President of Student Success or hearing committee may either dismiss the case or, based upon the information provided, find that the student committed the misconduct alleged and assign sanction.
- (k) Disciplinary hearings are subject to the Wisconsin open meetings law and may be closed if the student whose case is being heard requests a closed hearing or if the hearing examiner or committee determines that it is necessary to hold a closed hearing, as permitted under the Wisconsin open meetings law. Deliberations of the committee shall be held in closed session, in accordance with s. 19.85, Stats. As such, proper notice and other applicable rules shall be followed.

Appeal to the College President:

(1) Where the sanction prescribed by the hearing examiner or committee is one of those listed in Disciplinary Sanctions (i) to (j), the student may appeal to the College President within 14 days of the date of the written decision to review the decision of the hearing examiner or committee, based upon the record. In such a case, the College President has 30 days from receipt of the student's appeal to respond and shall sustain the decision of the nonacademic misconduct hearing examiner or committee unless the College President finds any of the following:

- a. The information in the record does not support the findings or decision of the hearing examiner or committee.
- b. Appropriate procedures were not followed by the nonacademic misconduct hearing examiner or committee and material prejudice to the student resulted.
- c. The decision was based on factors proscribed by state or federal law.
- (2) If the President makes a finding, the President may return the matter for consideration by a different hearing examiner or hearing committee or may invoke an appropriate remedy of his or her own.

Discretionary Appeal to the Wisconsin Technical College System Board: The decision of the college shall be final, except that the WTCS board may, at its discretion, grant a review upon the record.

Settlement: The procedures set forth in this chapter allow the college and a student to enter into a settlement agreement regarding the alleged misconduct, after proper notice has been given. Any such agreement and its terms shall be in writing and signed by the student and the Registrar/Student Conduct Officer or Vice President of Student Success. The case is concluded when a copy of the signed agreement is delivered to the student.

Effect of Discipline Within the Institution: A student who, at the time of commencement, is subject to a continuing disciplinary sanction or unresolved disciplinary charges as a result of a report, shall not be awarded a degree during the pendency of the sanction or disciplinary proceeding.

Petition for Restoration of Rights After Suspension or Expulsion: (for both academic and nonacademic misconduct) An individual who has been suspended may petition to have his or her student status, rights, and privileges restored before the suspension has expired by its own terms.

An individual who has been expelled may petition for readmission after a minimum of two years from the date of expulsion. The petition shall be in writing and directed to the College President. The College President shall make the readmission decision.

Emergency Suspension:

- (1) The College President may impose an emergency suspension on a student, pending final institutional action on a report of nonacademic misconduct, in accordance with the procedures of this section.
- (2) College President may impose an emergency suspension on a student when all of the following conditions are met:
 - a. The Registrar/Student Conduct Officer has made a reasonable attempt to offer the student the opportunity for discussion, either in person or by telephone.
 - b. The Registrar/Student Conduct Officer recommends a sanction of suspension or expulsion.
 - c. The College President concludes, based on the available information, that the misconduct likely occurred and that the student's continued presence on campus meets one or more of the following conditions:
 - 1. Would constitute a potential for serious harm to the student.
 - 2. Would constitute a potential for serious harm to others.
 - 3. Would pose a threat of serious disruption of college-run or college-authorized activities.
 - 4. Would constitute a potential for serious damage to college facilities or property.



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- (3) If the College President determines that an emergency suspension is warranted under sub. (2), he or she shall promptly have written notification of the emergency suspension delivered to the student. The College President's decision to impose an emergency suspension shall be effective immediately when delivered to the student and is final.
- (4) Where an emergency suspension is imposed, the hearing on the underlying allegations of misconduct shall be held, either on or outside of college lands, within 21 days of the imposition of the emergency suspension, unless the student agrees to a later date.
- (5) An emergency suspension imposed in accordance with this section shall be in effect until the decision in the hearing on the underlying charges pursuant to is rendered or the College President rescinds the emergency suspension. In no case shall an emergency suspension remain in effect for longer than 30 days unless the student agrees to a longer period.
- (6) If the College President determines that none of the conditions specified above are present, but that misconduct may have occurred, the case shall proceed in accordance with published disciplinary procedure.

Potential Responses to Student Misconduct:

Disciplinary Sanctions:

- (1) The disciplinary sanctions that may be imposed for nonacademic misconduct, upon conclusion of the disciplinary process, are any of the following:
 - **a.** A written reprimand.
 - **b.** Denial of specified college privileges.
 - **c.** Payment of restitution.
 - d. Educational or service sanctions, including community service.
 - e. Disciplinary probation.
 - **f.** Imposition of reasonable terms and conditions on continued student status.
 - g. Removal from a course in progress.
 - **h.** Enrollment restrictions on a course or program.
 - i. Suspension from the college.
 - j. Expulsion from the college.
- (2) One or more of the aforementioned disciplinary sanctions may be imposed for an incident of nonacademic misconduct.
- (3) Disciplinary sanctions shall not include the termination or revocation of student financial aid; however, this shall not be interpreted as precluding the individual operation of rules or standards governing eligibility for student financial aid under which the imposition of a disciplinary sanction could result in disqualification of a student for financial aid.
- (4) Suspension and expulsion:
 - **a.** A student who has been suspended or expelled from the college will forfeit any payment that has been made on their student account. The individual will be responsible for making payment on any outstanding account balance.
 - **b.** The individual will receive a final grade for enrolled class(es) based on current points earned out of total possible points at the time of suspension or expulsion.
 - **c.** During the suspension and expulsion period, the individual is prohibited from being on college campuses, events, and activities. Any individual found to be in violation of this may result in a trespass action, if necessary.

i. A petition is available for those with a need to be on campus or attend college related events and activities during this period. The petition must be sent in writing and pre-approved by the Vice President of Student Success or Student Conduct Officer.

Academic Misconduct

Academic misconduct subject to disciplinary action:

- (1) The definition of academic misconduct is an act in which a student:
 - **a.** Seeks to claim credit for the work or efforts of another without authorization or citation;
 - **b.** Uses unauthorized materials or fabricated data in any academic exercise;
 - c. Forges or falsifies academic documents or records;
 - d. Intentionally impedes or damages the academic work of others;
 - e. Engages in conduct aimed at making false representation of a student's academic performance; or
 - f. Assists other students in any of these acts
- (2) Examples of academic misconduct include, but are not limited to: cheating on an examination; collaborating with others in work to be presented, contrary to the stated rules of the course; submitting a paper or assignment as one's own work when a part or all of the paper or assignment is the work of another; submitting a paper or assignment that contains ideas or research of others without appropriately identifying the sources of those ideas; stealing examinations or course materials; submitting, if contrary to the rules of a course, work previously presented in another course; tampering with the laboratory experiment or computer program of another student; knowingly and intentionally assisting another student in any of the above, including assistance in an arrangement whereby any work, classroom performance, examination or other activity is submitted or performed.

Disciplinary Sanctions:

- (1) The following are the disciplinary sanctions that may be imposed for academic misconduct.
 - a. An oral reprimand;
 - b. A written reprimand presented only to the student;
 - c. An assignment to repeat the work, to be graded on its merits;
 - d. A lower or failing grade on the particular assignment or test;
 - e. A lower grade in the course;
 - f. A failing grade in the course;
 - g. Removal of the student from the course in progress;
 - h. A written reprimand to be included in the student's disciplinary file;
 - i. Removal from their academic program of study;
 - j. Disciplinary probation; or
 - **k**. Suspension or expulsion from the college.
- (2) One or more of the disciplinary sanctions listed in sub. (1) may be imposed for an incident of academic misconduct.

Disciplinary Sanction Imposed at the Discretion of the Instructor:

- (1) Where an instructor concludes that a student enrolled in one of his or her courses has engaged in academic misconduct in the course, the instructor will follow the following procedure to impose a sanction listed in (1) (a) through (f).
 - (a) CONFERENCE WITH STUDENT. When an instructor concludes that proceedings under this section are warranted, the instructor shall promptly offer to discuss the matter with the student. The purpose of this discussion is to permit the instructor to review with the student the basis for his or her belief that the student engaged in academic misconduct, and to afford the student an opportunity to respond.
 - (b) DETERMINATION BY THE INSTRUCTOR THAT NO ACADEMIC MISCONDUCT OCCURRED. If, as a result of the discussion, the instructor determines that academic misconduct did not in fact occur or that no disciplinary sanction is warranted under the circumstances, the matter will be considered resolved without the necessity for further action or a written report.
 - (c) PROCESS FOLLOWING DETERMINATION BY THE INSTRUCTOR THAT ACADEMIC MISCONDUCT OCCURRED
 - i. If, as a result of the discussion, the instructor determines that academic misconduct did occur, the instructor shall prepare a written report so informing the student, which shall contain the following:
 - **1.** A description of the misconduct;
 - **2.** Specification of the sanction recommended;
 - **3.** Notice of the student's right to appeal the decision to the Division Dean; and
 - **4.** A copy of the institutional procedures adopted to implement this sanction.
 - **ii.** The written report shall be delivered personally to the student, emailed to the student via their campus email account or be mailed to the student by regular first-class United States mail at his or her current address, as maintained by the college.
 - **iii.** A student who receives a disciplinary sanction under this section has the right to appeal the decision of the instructor to the Division Dean to contest the determination that academic misconduct occurred, or the disciplinary sanction imposed, or both. If the student desires to appeal, the student must file a written request with the Division Dean within 10 days of personal delivery or mailing of the written report. If the student does not request a hearing within this period, the determination of academic misconduct shall be regarded as final, and the disciplinary sanction recommended shall be imposed.
- (2) Where an instructor concludes that a student enrolled in one of his or her courses has engaged in academic misconduct in the course, the instructor will follow the following procedure to impose a sanction listed in (1) (g) through (h):
 - (a) The instructor will proceed as above but will also send a copy of the report to the Division Dean.
 - (b) The instructor will inform the student that, because of the recommended sanction, the case will be heard, and a decision rendered by the Dean.

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- (c) The Dean will review the information provided by the instructor and will meet with the student to discuss the case.
- (d) If, as a result of the discussion, the Dean determines that academic misconduct did not in fact occur or that no disciplinary sanction is warranted under the circumstances, the matter will be considered resolved without the necessity for further action.
- (e) If the Dean determines that misconduct has occurred, the Dean will:
 - i. Determine the appropriate sanction(s) for the offense. The sanction can be any listed in (1) (a) through (h). If the Dean determines that the appropriate sanction, is one listed in (1) (i) through (j), they will refer the matter to the Vice President for Instruction as outlined below.
 - **ii.** Inform the student of their decision via a written report that shall be delivered personally to the student, emailed to the student via their campus email account or be mailed to the student by regular first-class United States mail at his or her current address, as maintained at the college.
- (f) A student who receives a disciplinary sanction under this section has the right to appeal the decision of the Dean to the Vice President of Instruction to contest the determination that academic misconduct occurred, or the disciplinary sanction imposed, or both. If the student desires to appeal, the student must file a written request with the Vice President of Instruction within 10 days of personal or email delivery or mailing of the written report. If the student does not request a hearing within this period, the determination of academic misconduct shall be regarded as final, and the disciplinary sanction recommended shall be imposed.
- (3) Where an instructor concludes that a student enrolled in one of his or her courses has engaged in academic misconduct in the course, and the instructor or the Division Dean has determined that a sanction listed in (1) (i) through (j) is warranted, the following procedure will be followed:
 - (a) The instructor/Dean will proceed as above but will also send a copy of the report to the Vice President of Instruction.
 - (b) The instructor/Dean will inform the student that, because of the recommended sanction, the case will be heard, and a decision rendered by the Vice President of Instruction.
 - (c) The Vice President of Instruction will review the information provided by the instructor/Dean and will meet with the student to discuss the case.
 - (d) If, as a result of the discussion, the Vice President of Instruction determines that academic misconduct did not in fact occur or that no disciplinary sanction is warranted under the circumstances, the matter will be considered resolved without the necessity for further action.
 - (e) If the Vice President of Instruction determines that misconduct has occurred, the Vice President will:
 - Determine the appropriate sanction(s) for the offense. The sanction can be any listed in (1) (a) through (j). If the Vice President determines that the appropriate sanction is (1) (k), suspension or expulsion from the college, the Vice President will present the case to the College President who will review the case and

either confirm the recommended sanction or remand the case back to the Vice President for further review.

- **ii.** Inform the student of their decision via a written report that shall be delivered personally to the student, emailed to the student via their campus email account or be mailed to the student by regular first-class United States mail at his or her current address, as maintained at the institution.
- (f) A student who receives a disciplinary sanction listed in (1) (i) through(k) under this section has the right to appeal the decision of the Vice President of Instruction to contest the determination that academic misconduct occurred, or the disciplinary sanction imposed, or both, to the academic misconduct hearing committee. The request for a hearing must be submitted to the Vice President of Student Success within 10 days of personal delivery or mailing of the written report. The Vice President of Student Success shall take the necessary steps to convene the hearing and shall schedule it within 15 days of receipt of the request. The hearing shall be conducted within 45 days of receipt of the request unless a different time period has been mutually agreed upon by the student and the College. If the student does not request an appeal hearing within this period, the determination of academic misconduct shall be regarded as final, and the disciplinary sanction recommended shall be imposed.

Hearing:

- (1) If a student requests a hearing, the Vice President for Student Success will take the necessary steps to convene the academic misconduct hearing committee and shall schedule the hearing within 10 days of receipt of the request or written report, unless a different time period is mutually agreed upon between the college and the student.
- (2) Reasonably in advance of the hearing, the committee shall obtain from the instructor or investigating officer, in writing, a full explanation of the facts upon which the determination of misconduct was based and shall provide a copy of the Academic Misconduct section of the Student Code of Conduct to the student.
- (3) The hearing before the academic misconduct hearing committee shall be conducted in accordance with the following requirements:
 - **a.** The student shall have the right to question adverse witnesses, the right to present evidence and witnesses, and to be heard in his or her own behalf, and the right to be accompanied by a representative of his or her choice.
 - b. The hearing committee shall not be bound by common law or statutory rules of evidence and may admit evidence having reasonable probative value, but shall exclude immaterial, irrelevant, or unduly repetitious testimony, and shall give effect to recognized legal privileges.
 - **c.** The hearing committee shall make a record of the hearing. The record shall include a verbatim record of the testimony, which may be a sound recording, and a file of the exhibits offered at the hearing. Any party to the hearing may obtain copies of the record at his or her own expense. Upon a showing of indigency and legal need, a party may be provided a copy of the verbatim record of the testimony without charge.

- **d.** The hearing committee shall prepare written findings of fact and a written statement of its decision based upon the record of the hearing.
- e. The hearing committee may find academic misconduct and impose a sanction of suspension or expulsion only if the proof of such misconduct is clear and convincing. In other cases, a finding of misconduct must be based on a preponderance of the credible evidence.
- **f.** The hearing committee may impose a disciplinary sanction that differs from the recommendation of the instructor or investigating officer.
- **g.** The instructor or the investigating officer or both may be witnesses at the hearing conducted by the committee, but do not have responsibility for conducting the hearing.
- **h.** The decision of the hearing committee shall be served upon the student either by personal delivery or by first class United States mail and shall become final within 10 days of service.

Discretionary Appeal to the Wisconsin Technical College System Board: The decision of the college shall be final, except that the WTCS board may, at its discretion, grant a review upon the record.

Settlement: The procedures set forth in this chapter do not preclude a student from agreeing that academic misconduct occurred and to the imposition of a sanction, after proper notice has been given.

Right to Petition for Readmission: A student who has been expelled may petition for readmission, and a student who has been suspended may petition for readmission prior to the expiration of the suspension period. The petition for readmission must be in writing and directed to the president of the institution from which the student was suspended or expelled. The petition may not be filed before the expiration of one year from the date of the final determination in expulsion cases, or before the expiration of one-half of the suspension period in suspension cases.

TOBACCO/SMOKE-FREE CAMPUS POLICY

The Tobacco-Smoke Free Campus policy is part of the college's commitment to creating a healthy campus for all members of our campus community and is designed to be positive and supportive of overall health and well-being.

The Tobacco-Smoke Free Campus policy defines tobacco, smoking, or vapor products as including but not limited to all tobacco products including cigarettes, cigars, pipes, any devices used to smoke tobacco products, electronic cigarettes, vaporizers that are alternatives to smoking products, water pipes, smokeless tobacco products such as, chewing, or dipping products, etc.

The use of tobacco, smoking, and vapor products is prohibited in all buildings and grounds owned or leased by Lakeshore Technical College. Individuals may use these products in their personal vehicles; however, improper disposal of cigarette butts or littering, smoking, or tobacco materials on campus grounds is prohibited.

Enforcement of the policy will be achieved primarily through respectful communication of the policy, education, and awareness.



ACCOUNTING

Credit(s)

Program Number 10-101-1 Associate Degree in Applied Science • Four Terms

Torm 1

Catalog No. Class Title

ABOUT THE PROGRAM

Every business and industry, from movie-making to alternative energy, requires people-oriented, analytical, and creative thinkers to address accounting needs. As an accountant, you will have direct input regarding a company's financial health and profitability. A degree in accounting can be the key to rewarding and challenging opportunities in any field of interest.

PROGRAM OUTCOMES

- Process financial transactions throughout the accounting cycle.
- · Analyze financial and business information to support planning and decision making.
- · Perform payroll preparation, reporting, and analysis tasks.
- · Perform cost accounting preparation, reporting, and analysis tasks.
- · Perform organizational and/or individual tax accounting preparation, reporting, and analysis tasks.
- · Identify internal controls to reduce risk.

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- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

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SPECIAL NOTE

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RELATED PROGRAMS

- Accounting Assistant Technical Diploma Program
- Tax Preparer Certificate

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

| 10101111 10101122 10101128 10103121 10801195 | Accounting 1 Income Tax Income Tax 2 Excel - Level 1 Written Communication | 4 3 2 1 3 |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 10804189 | Introductory Statistics | 3 16 |
| 10101113 10101129 10101135 10101180 10101182 10102160 | Accounting 2 Applied Tax Payroll Accounting Spreadsheet Data Management Accounting Software Applications Business Law 1 | 4 1 3 2 2 3 15 |
| 10101115 10101125 10801196 10809196 | Term 3 Accounting 3 Accounting Cost 1 Oral/Interpersonal Communication Introduction to Sociology | 4 4 3 3 14 |
| 10101118 10101124 10101126 | Term 4 Accounting 4 Auditing Accounting Cost 2 | 2 2 2 |

| 10101110 | Accounting 4 |
|----------|----------------------------|
| 10101124 | Auditing |
| 10101126 | Accounting Cost 2 |
| 10101199 | Accounting Capstone |
| 10809195 | Economics |
| 10809198 | Introduction to Psychology |
| | |

TOTAL 60

3

3

3

15

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REAL EXPERIENCE FOR THE REAL WORLD

ACCOUNTING 1...provides the learner with the skills to understand and apply accounting principles and procedures useful in any business. Includes the accounting cycle for a service enterprise and a merchandising enterprise, chart of accounts, special journals, ledgers, accruals and deferrals, inventories, and internal controls.

ACCOUNTING 2...provides the learner with the skills to transition to more advanced accounting courses with emphasis given to notes and interest, forms of legal entities, stock transactions, depreciation methods, payroll, valuation, and financial analysis. PREREQUISITE: 10101111 Accounting 1

ACCOUNTING 3...introduces the learner to intermediate accounting concepts, principles, and applications. Includes financial statements, temporary investments, receivables, equities, current liabilities, present value, and fixed assets. PREREQUISITE: 10101113 Accounting 2

ACCOUNTING 4...expands the learner's ability to understand intermediate accounting concepts, principles, and applications, including long-term investments, bonds, leases, stockholders' equity, and time value of money. PREREQUISITE: 10101115 Accounting 3

ACCOUNTING CAPSTONE...provides the learner with the opportunity to synthesize the theory and processes learned in the Accounting program via a capstone project. This course is an exercise in professional analysis and preparedness--reemphasizing the need for professional communication. PREREQUISITES: 101011115 Accounting 3, 10101125 Accounting Cost 1, and 10101135 Payroll Accounting

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ACCOUNTING COST 2...expands the learner's ability to understand accounting for manufacturing enterprises. Includes break-even analysis, differential costs, capital expenditures and budgeting. PREREQUISITE: 10101125 Accounting Cost 1

ACCOUNTING SOFTWARE APPLICATIONS...prepares the learner to transfer manual accounting skills to computerized accounting software. It includes company setup, expenditure cycle transactions, revenue cycle transactions, general journal transactions, payroll, bank reconciliations, end-of-period procedures, and customization of financial statements. PREREQUISITE: 10101111 Accounting 1 or 10101150 Office Accounting

APPLIED TAX...provides the opportunity for the learner to expand tax preparation skills acquired in the Income Tax course and apply those skills to real-life situations in preparing taxes for the local community through the IRS Volunteer Income Tax Assistance (VITA) program. Learners will gain certification from the IRS through the course. PREREQUISITE: 10101122 Income Tax

AUDITING...introduces the learner to the fundamentals of auditing. This course involves the evaluation of internal controls including methods of examination and evaluation of accounting records. These evaluations are used to provide objective data to support opinions on the fairness and reliability of accounting records. COREQUISITE: 10101113 Accounting 2

BUSINESS LAW 1...provides the learner with the skills to summarize the American legal system; diagram the state/federal court systems; evaluate dispute resolution methods; sequence the civil litigation process; summarize the administrative agencies; differentiatecivil and criminal law; apply theories of negligence, intentional tort, and product liability; summarize elements of a contract; assess third-party rights and available remedies; and summarize Article II of the UCC.

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

INCOME TAX... introduces the learner to federal income tax laws and their underlying principles. Includes filing status, gross income (inclusions and exclusions), deductions and exceptions, tax forms and schedules, the computation of taxes, depreciation and completion of tax forms both manually and computerized.

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SPREADSHEET DATA MANAGEMENT...provides the learner with intermediate skills to use spreadsheet software to solve accounting and business problems. It focuses on advanced functions and relates skill acquisition to accounting analysis and reporting needs. COREQUISITES: 10101111 Accounting 1 and PREREQUISITE: 10103121 Excel - Level 1 or equivalent

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



PART-TIME • EVENINGS ACCOUNTING

Program Number 10-101-1 Associate Degree in Applied Science

| gy, requires | Catalog No. | Class Title | Credit(s) |
|--------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| ing needs. inancial arding and | 10103121 | Term 1 (Fall 2023) Accounting 1 Excel - Level 1 Introductory Statistics | 4 1 3 8 |
| decision | | Term 2 (Spring 2024) Accounting 2 Spreadsheet Data Management | 4 2 6 |
| n, reporting, | 10101182 | Term 3 (Summer 2024) Payroll Accounting (online) Accounting Software Applications Written Communication | 3 2 3 8 |
| sit gotoltc. | 10101122 | Term 4 (Fall 2024) Accounting Cost 1 Income Tax Income Tax 2 | 4 3 2 9 |
| with dule, lent Success <i>transcripts,</i> ears, used | 10101129 | Term 5 (Spring 2025) Accounting Cost 2 Applied Tax Introduction to Sociology | 2 1 3 6 |
| redit(s) and econd | | Term 6 (Summer 2025) Oral/Interpersonal Communication Introduction to Psychology | 3 3 6 |
| nt activity rogram. Visit | | Term 7 (Fall 2025) Accounting 3 Economics | 4 3 7 |
| id or talk | 10102160 | Term 8 (Spring 2026) Accounting Capstone Business Law 1 (online) Accounting 4 Auditing (online) | 3 3 2 2 10 |
| m at the ct students roctored at | Ę | ART | TOTAL 60 |
| chan for do rates | ge. Program start etails. The tuition | m acceptance requirements are subject to dates vary; check with your program counselor and fees are approximate based on 2023-2024 o change prior to the start of the academic year. | 2023-24 |
| 43 | | | |

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PART-TIME • ONLINE ACCOUNTING

Credit(s)

1

3

8

4

2

2

8

3

3 6

3

7

3

3

3 6

4

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9

2

1

3

3

TOTAL 60

Program Number 10-101-1 Associate Degree in Applied Science

| | 10804189 | Introductory Statistics |
|---------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------|
| inting cycle. ort planning and decision tasks. | 10101180 | Term 2 (Spring 2024) Accounting 2 Spreadsheet Data Management Accounting Software Applications |
| l analysis tasks. ting preparation, reporting, | | Term 3 (Summer 2024) Payroll Accounting Written Communication |
| et information visit gotoltc. | 10101115 10809195 | Term 4 (Fall 2024) Accounting 3 Economics |
| T STEPS | 10000100 | |
| re. stration Session with your ester schedule, review the Student Success | 10101118 10101124 10809196 | Term 5 (Spring 2025) Accounting 4 Auditing Introduction to Sociology |
| mended): College transcripts, thin the last five years, used sferring college credit(s) and | | Term 6 (Summer 2025) Oral/Interpersonal Communication Introduction to Psychology |
| egistering for second | | Term 7 (Fall 2025) |
| er credit student activity fees vary by program. Visit | 10101122 | Accounting Cost 1 Income Tax Income Tax 2 |
| edu/Financial-Aid or talk aid. | 10101129 10101199 | Term 8 (Spring 2026) Accounting Cost 2 Applied Tax Accounting Capstone Business Law 1 |
| g the spring term at the for out-of-district students nents must be proctored at | | |
| | | |

Catalog No.

10101111

Class Title

Accounting 1

10804189 Introductory Statistics

10103121 Excel - Level 1

Term 1 (Fall 2023)

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2023-24

ACCOUNTING 1...provides the learner with the skills to understand and apply accounting principles and procedures useful in any business. Includes the accounting cycle for a service enterprise and a merchandising enterprise, chart of accounts, special journals, ledgers, accruals and deferrals, inventories, and internal controls.

ACCOUNTING 2...provides the learner with the skills to transition to more advanced accounting courses with emphasis given to notes and interest, forms of legal entities, stock transactions, depreciation methods, payroll, valuation, and financial analysis. PREREQUISITE: 10101111 Accounting 1

ACCOUNTING 3...introduces the learner to intermediate accounting concepts, principles, and applications. Includes financial statements, temporary investments, receivables, equities, current liabilities, present value, and fixed assets. PREREQUISITE: 10101113 Accounting 2

ACCOUNTING 4...expands the learner's ability to understand intermediate accounting concepts, principles, and applications, including long-term investments, bonds, leases, stockholders' equity, and time value of money. PREREQUISITE: 10101115 Accounting 3

ACCOUNTING CAPSTONE...provides the learner with the opportunity to synthesize the theory and processes learned in the Accounting program via a capstone project. This course is an exercise in professional analysis and preparedness--reemphasizing the need for professional communication. PREREQUISITES: 101011115 Accounting 3, 10101125 Accounting Cost 1, and 10101135 Payroll Accounting

ACCOUNTING COST 1...provides the learner with the skills to understand cost behavior and analysis emphasizing manufacturing enterprises including cost reports, job-order costing, process costing, joint products costing, standard costing and variance analysis. PREREQUISITE: 10101111 Accounting I

ACCOUNTING COST 2...expands the learner's ability to understand accounting for manufacturing enterprises. Includes break-even analysis, differential costs, capital expenditures and budgeting. PREREQUISITE: 10101125 Accounting Cost 1

ACCOUNTING SOFTWARE APPLICATIONS...prepares the learner to transfer manual accounting skills to computerized accounting software. It includes company setup, expenditure cycle transactions, revenue cycle transactions, general journal transactions, payroll, bank reconciliations, end-of-period procedures, and customization of financial statements. PREREQUISITE: 10101111 Accounting 1 or 10101150 Office Accounting

APPLIED TAX...provides the opportunity for the learner to expand tax preparation skills acquired in the Income Tax course and apply those skills to real-life situations in preparing taxes for the local community through the IRS Volunteer Income Tax Assistance (VITA) program. Learners will gain certification from the IRS through the course. PREREQUISITE: 10101122 Income Tax

AUDITING...introduces the learner to the fundamentals of auditing. This course involves the evaluation of internal controls including methods of examination and evaluation of accounting records. These evaluations are used to provide objective data to support opinions on the fairness and reliability of accounting records. COREQUISITE: 10101113 Accounting 2

BUSINESS LAW 1...provides the learner with the skills to summarize the American legal system; diagram the state/federal court systems; evaluate dispute resolution methods; sequence the civil litigation process; summarize the administrative agencies; differentiatecivil and criminal law; apply theories of negligence, intentional tort, and product liability; summarize elements of a contract; assess the validity of a contract; assess third-party rights and available remedies; and summarize Article II of the UCC.

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

INCOME TAX...introduces the learner to federal income tax laws and their underlying principles. Includes filing status, gross income (inclusions and exclusions), deductions and exceptions, tax forms and schedules, the computation of taxes, depreciation and completion of tax forms both manually and computerized.

INCOME TAX 2...expands the learner's ability to comprehend the principles of income tax law and calculate federal income tax for business using tax and practical problems. COREQUISITE: 10101122 Income Tax

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PAYROLL ACCOUNTING...introduces the learner to federal and state payroll laws, calculating for gross and net pay, preparing payroll deductions, maintaining payroll records, and processing payroll in both a manual and computerized setting and preparing quarter-end and year-end reports. COREQUISITE: 10101111 Accounting 1

SPREADSHEET DATA MANAGEMENT...provides the learner with intermediate skills to use spreadsheet software to solve accounting and business problems. It focuses on advanced functions and relates skill acquisition to accounting analysis and reporting needs. COREQUISITES: 10101111 Accounting 1 and PREREQUISITE: 10103121 Excel - Level 1 or equivalent

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



ACCOUNTING ASSISTANT

Catalog No. Class Title

1

1

1

1 1

1

1

Term 1

Program Number 31-101-1 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

The Accounting Assistant technical diploma will provide students with the skills and confidence necessary to perform entry-level bookkeeping and accounting work for local employers. Accounting Assistant majors may work in a small business and be responsible for various aspects of bookkeeping or work in a larger firm under the supervision of an accountant and specialize in a certain area.

PROGRAM OUTCOMES

- Process financial transactions throughout the accounting cycle.
- Analyze basic financial and business information to support planning and decision making.
- · Perform payroll preparation, reporting, and analysis tasks.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

All assessments must be proctored at an LTC Testing site.

RELATED PROGRAMS

Accounting Associate Degree

• Tax Preparer Certificate

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| 0101111 | Accounting 1 | 4 |
|---------|-----------------------------|----|
| 0101122 | Income Tax | 3 |
| 0103121 | Excel - Level 1 | 1 |
| 0801195 | Written Communication | 3 |
| 0804189 | Introductory Statistics | 3 |
| | | 14 |
| | Term 2 | |
| 0101113 | Accounting 2 | 4 |
| 0101135 | Payroll Accounting | 3 |
| 0101180 | Spreadsheet Data Management | 2 |
| | | |

10101182 Accounting Software Applications 2 10102160 Business Law 1 3 14

TOTAL 28

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

ACCOUNTING 1...provides the learner with the skills to understand and apply accounting principles and procedures useful in any business. Includes the accounting cycle for a service enterprise and a merchandising enterprise, chart of accounts, special journals, ledgers, accruals and deferrals, inventories, and internal controls.

ACCOUNTING 2...provides the learner with the skills to transition to more advanced accounting courses with emphasis given to notes and interest, forms of legal entities, stock transactions, depreciation methods, payroll, valuation, and financial analysis. PREREQUISITE: 10101111 Accounting 1

ACCOUNTING SOFTWARE APPLICATIONS...prepares the learner to transfer manual accounting skills to computerized accounting software. It includes company setup, expenditure cycle transactions, revenue cycle transactions, general journal transactions, payroll, bank reconciliations, end-of-period procedures, and customization of financial statements. PREREQUISITE: 10101111 Accounting 1 or 10101150 Office Accounting

BUSINESS LAW 1...provides the learner with the skills to summarize the American legal system; diagram the state/federal court systems; evaluate dispute resolution methods; sequence the civil litigation process; summarize the administrative agencies; differentiatecivil and criminal law; apply theories of negligence, intentional tort, and product liability; summarize elements of a contract; assess the validity of a contract; assess third-party rights and available remedies; and summarize Article II of the UCC.

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

INCOME TAX... introduces the learner to federal income tax laws and their underlying principles. Includes filing status, gross income (inclusions and exclusions), deductions and exceptions, tax forms and schedules, the computation of taxes, depreciation and completion of tax forms both manually and computerized.

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

PAYROLL ACCOUNTING...introduces the learner to federal and state payroll laws, calculating for gross and net pay, preparing payroll deductions, maintaining payroll records, and processing payroll in both a manual and computerized setting and preparing quarter-end and year-end reports. COREQUISITE: 10101111 Accounting 1

SPREADSHEET DATA MANAGEMENT...provides the learner with intermediate skills to use spreadsheet software to solve accounting and business problems. It focuses on advanced functions and relates skill acquisition to accounting analysis and reporting needs. COREQUISITES: 10101111 Accounting 1 and PREREQUISITE: 10103121 Excel - Level 1 or equivalent

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



ADMINISTRATIVE PROFESSIONAL

Catalog No. Class Title

10

10 10

10

10

10

10

10 10

10

10

Program Number 10-106-6 Associate Degree • Four Terms

Credit(s)

15

15

ABOUT THE PROGRAM

Businesses depend on high-quality, accurate information. If you value organization, care about details, and understand the importance of clear communication and current technology skills, developing those talents as an administrative professional may be just what you need to succeed.

PROGRAM OUTCOMES

- · Demonstrate effective workplace communications.
- · Apply technology skills to business and administrative tasks.
- · Perform routine administrative procedures.
- Manage administrative projects.
- · Maintain internal and external relationships.
- · Model professionalism in the workplace.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Keyboard Speedbuilding assessments must be proctored at an LTC testing site. Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| | Term 1 | |
|----------|--------------------------------|----|
| 10103121 | Excel - Level 1 | 1 |
| 10103161 | PowerPoint - Level 1 | 1 |
| 10103191 | Word - Level 1 | 1 |
| 10106101 | Document Formatting | 1 |
| 10106200 | Introduction to Filing Systems | 1 |
| 10106201 | Applying Filing Systems | 1 |
| 10106202 | Computers and the Internet | 1 |
| 10106203 | Basic Office Equipment | 1 |
| 10106132 | Keyboard Speedbuilding | 1 |
| 10801195 | Written Communication | 3 |
| 10804189 | Introductory Statistics | 3 |
| | | 15 |
| | Term 2 | |
| 10103101 | Access - Level 1 | 1 |
| 10103122 | Excel - Level 2 | 1 |

| 103101 | Access - Level 1 | 1 |
|--------|--------------------------------------|---|
| 103122 | Excel - Level 2 | 1 |
| 103192 | Word - Level 2 | 1 |
| 106204 | Professionalism and Work Skills | 1 |
| 106205 | Interacting with Others in Workplace | 1 |
| 106206 | Leadership and Ethics | 1 |
| 106207 | Web 2.0 for Business | 1 |
| 106208 | HTML, CSS, and Web Design | 1 |
| 106209 | Introduction to Business Writing | 1 |
| 106210 | Intermediate Business Writing | 1 |
| 106211 | Business Writing Application | 1 |
| 116109 | Career Planning & Networking | 1 |
| 801196 | Oral/Interpersonal Communication OR | 3 |
| | 10809198 Speech | |

Term 3

| 10102200 | Introduction to the Business Environment | 1 |
|----------|------------------------------------------|---|
| 10102201 | HR in the Business Environment | 1 |
| 10102202 | Navigating the Business Environment | 1 |
| 10106212 | Business Documents and Forms | 1 |
| 10106213 | Business Web Applications | 1 |
| 10106214 | Advanced Word and Excel | 1 |
| 10103102 | Access - Level 2 | 1 |
| 10106215 | Integrating Microsoft Suite | 1 |
| 10106216 | MS Project I | 1 |
| 10106217 | MS Project II | 1 |
| 10106218 | Introduction to Publication Design | 1 |
| 10106219 | MS Publisher | 1 |
| 10809198 | Introduction to Psychology | 3 |
| | | |

Term 4

| 10101200 | Office Accounting Transactions | 1 |
|----------|------------------------------------------|---|
| 10101201 | Office Accounting Process | 1 |
| 10101202 | Office Accounting QuickBooks | 1 |
| 10106135 | Event Planning and Coordination | 2 |
| 10106160 | Internship - Administrative Professional | 1 |
| 10106169 | Administrative Office Management | 4 |
| 10106220 | Training Techniques Introduction | 1 |
| 10106221 | Training Program Development | 1 |
| 10809195 | Economics | 3 |

TOTAL 60

15

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

ACCESS - LEVEL 1...introduces students to the process of creating a database, building and populating a table, establishing table relationships, and creating queries, forms, and reports. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

ACCESS - LEVEL 2...teaches students to create advanced queries; set and use advanced field properties and data types; design, create, and edit custom forms and reports; and to import and export data in a various formats. PREREQUISITE: 10103101 Access - Level 1 or equivalent and CONDITION: CBE Software Learning Center Assessment or CONDITION: CBE Admin Assessment

ADMINISTRATIVE OFFICE MANAGEMENT...prepares students to work with the advanced features of the Microsoft Office suite, as well as act as an employee in an office simulation environment. Students will build teams, study conflict resolution concepts, develop leadership skills, perform employee reviews, manage budgets, and explore lean culture concepts. Decision-making, professionalism, and work ethic are emphasized throughout the course. PREREQUISITE: 10106217 MS Project II and 10106219 MS Publisher and 10106215 Integrating Microsoft Suite.

ADVANCED WORD AND EXCEL...focuses on advanced features in Microsoft Word and Excel, students will create macros; creating a table of contents; an online form; incorporate data validation; export and cleanse data sets; and perform what-if analysis with Scenario Manager, Data Tables, and Solver. PREREQ: 10103192 Word-Lev 2 and 10103122 Excel-Lev 2 and COND: CBE Admin Assmnt

APPLYING FILING SYSTEMS...applies the rules for paper and electronic filing systems; charge-out procedures, retention schedules, and transfer methods. COREQUISITE: 10106200 Introduction to Filing Systems and CONDITION: CBE Admin Assessment

BASIC OFFICE EQUIPMENT...prepares the learner to work in office setting. The learner will be exposed to typical hardware found and software used in the office environment and gain the skills needed to be efficient on the job. CONDITION: CBE Admin Assessment

BUSINESS DOCUMENTS AND FORMS...introduces the learner to creating documents and forms using Microsoft, Google, and Adobe products. CONDITION: CBE Admin Assessment

BUSINESS WEB APPLICATIONS...provides the learner with skills to navigate Google and Microsoft collaboration tools including Google Meet, MS Teams, Google Extensions, Gmail, and Outlook. CONDITION: CBE Admin Assessment

BUSINESS WRITING APPLICATION...develop transcription and composition skills to create and process business documents. PREREQUISITE: 10106209 Introduction to Business Writing and 10106210 Intermediate Business Writing and CONDITION: CBE Admin Assessment

CAREER PLANNING & NETWORKING...focuses on process of researching and pursuing professional career opportunities. Develop resume and cover letter documentation to accurately reflect personal, academic, and professional accomplishments and the connection that these elements have to various positions with employers. Interviewing skills will be a significant aspect of this experience with a focus on interviews for potential internship opportunities. CONDITION: CBE Admin Assmnt

COMPUTERS AND THE INTERNET...provides the learner with introductory knowledge and skills related to operating a computer on a network and computer storage and processing. digital security, privacy, and threats; computer components; storage; and procedures that prepare you to work alongside administrative leaders via real-world business scenarios. The learner will also evaluate internet service providers. CONDITION: CBE Admin Assessment

DOCUMENT FORMATTING ... prepares the learner to keyboard and format business memorandums, letters and reports, and other business documents. Emphasis will be placed on proofreading and editing skills. COREQUISITES: 10103191 Word-Lev 1 or equivalent and CONDITION: CBE Admin Assessment ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EVENT PLANNING & COORDINATION ... prepares the learner to manage preplanning activities for an event, coordinate equipment and facility setup, communicate with outside vendors/suppliers, and conduct follow-up activities. Each student will be required to participate in planning areal-life event and/or assisting an organization through a service learning experience. PREREQUISITE: 10106167 Microsoft Office Integration

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment EXCEL - LEVEL 2...will explore Excel tables and charts, working with multiple worksheets and workbooks at once, creating applications and rules, protecting worksheets and workbooks and learning about macros and comments. COREQUISITE: 10103121 Excel - Level 1 or equivalent and CONDITION: CBE Software Learning Center Assessment or CONDITION: CBE Admin Assessment

HR IN THE BUSINESS ENVIRONMENT...introduces learner to HR practices in the business. Topics include management & leadership, structuring organizations, motivating employees, unions, and employee issues. Learners will also identify hiring and talent development processes. COND: CBE Admin Assmnt

HTML, CSS, AND WEB DESIGN...prepares the learner to write and modify code to create a simple business website and custom HTML emails. PREREQUISITE: 10106207 Web 2.0 for Business and CONDITION: CBE Admin Assessment

INTEGRATING MICROSOFT SUITE...enhances knowledge learned in previous courses and uses Microsoft Word, Microsoft Excel, Microsoft PowerPoint, and Microsoft Access. The student will manage information and apply critical-thinking skills to compose a variety of integrated businessdocuments, spreadsheets, databases, and presentations. PREREQUISITE: 10106214 Advanced Word and Excel and 10103102 Access - Level 2 and CONDITION: CBE Admin Assessment

INTERACTING WITH OTHERS...prepares the learner to identify different communication styles and strategies while working in a diverse environment. Learners will examine exemplary customer service skills. CONDITION: CBE Admin Assessment

INTERMEDIATE BUSINESS WRITING...refine and apply writing skills within the professional workplace. Proofread and edit business documents for appropriate content and clarity. PREREQUISITE: 10106209 Introduction to Business Writing and CONDITION: CBE Admin Assessment

INTERNSHIP--ADMINISTRATIVE PROFESSIONAL...enhances the student's ability to apply technical skills, to work productively, to communicate effectively, and to demonstrate appropriate ethics and behavior in a professional workplace environment. PREREQUISITE: Verification of eligibility by the Internship Coordinator INTRO TO BUSINESS WRITING...develop writing skills with a focus on effective communication within the professional workplace. Review grammar, punctuation, and word usage skills. CONDITION: CBE Admin Assessment

INTRO TO PUBLICATION DESIGN...explores key graphic design principles and best practices for designing documents. The learner will use basic design skills to create professional publications. CONDITION: CBE Admin Assessment

INTRODUCTION TO FILING SYSTEMS...introduces the fundamentals of managing the record and information life cycle; charge-out procedures; retention schedules; transfer methods; control measurements; imaging systems and information security. CONDITION: CBE Admin Assessment

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO THE BUSINESS ENVIRONMENT...introduces the learner to risk and profit management which are keys in the business environment. Learners will explore the global markets and how to start an ethical and socially responsible business. CONDITION: CBE Admin Assessment

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

KEYBOARD SPEEDBUILDING...prepares the learner with the skills to keyboard text with speed and accuracy using the "touch" method. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

LEADERSHIP AND ETHICS...prepares the learner to deal with conflict in the workplace while maintaining ethical standards. The learner will also identify leadership styles in the workplace. CONDITION: CBE Admin Assessment

MS PROJECT 1...focuses on project management theory to provide learners with an understanding of the role of Project Manager in organizations. Learners will then institute these principles utilizing the Microsoft Project software to focus on the initiation, planning, and execution phases of managing projects in business. CONDITION: CBE Admin Assessment

MS PROJECT II...focuses on project management theory to build upon their understanding of the role of Project Manager in organizations. Learners will then utilize the Microsoft Project software to focus on the entire project management cycle including initiating, planning, executing, and evaluating projects in business. PREREQUISITE: 10106216 MS Project 1 and CONDITION: CBE Admin Assessment

MS PUBLISHER...focuses on Microsoft Publisher to develop eye-catching handouts, flyers, brochures, newsletters, and prepare a publication for printing. PREREQUISITE: 10106218 Introduction to Publication Design and CONDITION: CBE Admin Assessment

NAVIGATING THE BUSINESS ENVIRONMENT...learners review manufacturing production and operations processes, marketing procedures, and financial comparisons. COND: CBE Admin Assmnt OFFIDE ACCOUNTING DEDCEDO

OFFICE ACCOUNTING PROCESS...introduces the learner to finalizing the accounting process, handling cash, and recording payroll. CONDITION: CBE Admin Assessment

OFFICE ACCOUNTING QUICKBOOKS...introduces the learner to a software for recording business transactions and producing end-of-period reports. CONDITION: CBE Admin Assessment

OFFICE ACCOUNTING TRANSACTIONS...introduces the learner to the principles of business accounting. Learners are introduced to double-entry accounting procedures, journalizing, and posting transactions. CONDITION: CBE Admin Assessment

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

POWERPOINT - LEVEL 1...introduces the student to the program by planning and creating a presentation, adding media and special effects, and applying advanced formatting to objects. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment.

PROFESSIONALISM AND WORK SKILLS...prepares the learner to communicate effectively while developing and discussing critical work skills such as time and stress management, critical thinking, listening, and organization. CONDITION: CBE Admin Assessment

TRAINING PROGRAM DEVELOPMENT...applies the practices and tools necessary to develop organizational training programs. This includes aligning program objectives to business needs, program development, implementation, and evaluation of organizational interventions. Each learner will then design an organizational training program to be presented in class. PREREQUISITE: 10106220 Training Techniques Introduction and CONDITION: CBE Admin Assessment

TRAINING TECHNIQUES INTRODUCTION ... develops skills needed to deliver on the job training to adult learners in the workplace. Includes understanding and adapting to learning styles to accelerate learning, preparation and delivery of training material, and evaluation of 1-on-1 and small group training. WEB 2.0 FOR BUSINESS ... provides a basic understanding of the web as well as the tools used to create blogs, web videos, and social media accounts for business use. Reviews social web tools and components. CONDITION: CBE Admin Assessment

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

WORD - LEVEL 2...introduces the student to multi-column documents, templates, and the mail merge feature while applying WordArt, themes, styles, quick parts, and other advanced document formatting features. COREQUISITE: 10103191 Word - Level 1 or equivalent and CONDITION: CBE Software Learning Center Assessment or CONDITION: CBE Admin Assessment

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

AGRIBUSINESS CROPS & SOILS - BASIC

Program Number 61-006-1 Certificate • 12 credits

ABOUT THE PROGRAM

Introduces the learner to crop and soil management, soil properties, and soil nutrient management. Also introduces the student to running a successful agribusiness or farm operation, which includes a basic understanding of business management practices and production agronomy concepts.

PROGRAM OUTCOMES

- Understand a crop and soil nutrient plan
- Understand soil properties and soil erosion
- Prepare for and take Pesticide Applicator Certification Exam

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- · Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
 *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

This certificate's class schedule is provided in the iFlex format which allows students to take courses online, face-to-face, or flex between the two.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

Credits transfer to LTC's Agriculture Technician Technical Diploma, which can be completed with one additional year of part-time classes. Students may then enter the second year of the associate degree, Agribusiness Science & Technology.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No. | Class Title | Credit(s) |
|----------------------------------|--------------------------------------------------------------------------------------------------------|-------------------------|
| 10006112 10006116 10804123 | Term 1 (Fall) Farm Business Management Intro to Soil Science Math with Business Applications* | 3 3 3 9 |

Term 2 (Spring)

10006122 Principles of Crop Production

TOTAL 12

3

3

*A math assessment placement test is required.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year. FARM BUSINESS MANAGEMENT...provides learner with basic business management practices including the development of a business plan, establishment of short and long range goals, identification and implementation alternatives for reaching goals, and development of strategies to monitor progress. The importance of designing a business mission statement based on goals is emphasized.

INTRO TO SOIL SCIENCE...provides fundamentals of soil's physical properties, chemical properties, biological properties, soil formation, classification, essential nutrients and soil survey. There will be emphasis on soil and water conservation practices that can be used to reduce soil erosion.

MATH WTIH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. PREREQUISITE: 10834109 Pre-Algebra or Math placement assessment equivalent and COREQUISITE: 10838105 Intro to Reading and Study Skills or Reading placement assessment equivalent

PRINCIPLES OF CROP PRODUCTION...provides knowledge of crop and soil nutrient management, including use of both commercial fertilizers and manure. Course topics include purchase or lease options for land, agronomy consulting programs, tillage and conservation plans, soil nutrient plans, cropping plans, managing nutrient waste, crop harvest and storage and production records. PREREQUISITE: 10006116 Intro to Soil Science or 10091105 Dairy Feeding Management

AGRIBUSINESS FINANCIAL - BASIC

Program Number 61-006-2 Certificate • 12 credits

ABOUT THE PROGRAM

Introduces the learner to the financial and economic impact of running a successful farm operation. Establishes an understanding of financial software tools and their uses to provide a financial roadmap. Builds a basic understanding of business management practices and the economics systems and public policies.

PROGRAM OUTCOMES

- · Apply understanding of basic financial software
- Apply management practices in reaching goals and objectives
- · Understand a business plan and Return On Investment

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- · Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
 *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

This certificate's class schedule is provided in the iFlex format which allows students to take courses online, face-to-face or flex between the two.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

These credits transfer into LTC's Agriculture Technician Technical Diploma. Students may then enter the second year of the associate degree, Agribusiness Science & Technology.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No. | Class Title | Credit(s) |
|----------------------------------|---------------------------------------------------------------------------------------------------------------|-------------------------|
| 10006112 10804123 10006116 | Term 1 (Fall) Farm Business Management Math with Business Applications* Intro to Soil Science | 3 3 3 9 |
| 10006110 | Term 2 (Spring) Ag Finance & Accounting | 3 |

TOTAL 12

3

*A math assessment placement test is required.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year. AGRICULTURAL FINANCE AND ACCOUNTING...introduces the learner to the basics of agricultural financial management including securing credit, working with financial statements (balance sheet, income statement, cash flows, owner equity) and investment analysis. Additionally, students will perform basic financial analysis, calculate depreciation, and prepare amortization schedules. Students will learn the basics of agricultural accounting and will practice using basic accounting software programs. PREREQUISITE: 10006112 Farm BusinessManagement or CONDITION: 310011 Horticulture Technician and COREQUISITE: 10804123 Math with Business Apps

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: 10838105 Intro to Reading and Skudy Skills or Reading placement assessment equivalent

FARM BUSINESS MANAGEMENT...provides learner with basic business management practices including the development of a business plan, establishment of short and long range goals, identification and implementation alternatives for reaching goals, and development of strategies to monitor progress. The importance of designing a business mission statement based on goals is emphasized.

INTRO TO SOIL SCIENCE...provides fundamentals of soil's physical properties, chemical properties, biological properties, soil formation, classification, essential nutrients and soil survey. There will be emphasis on soil and water conservation practices that can be used to reduce soil erosion.

MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. PREREQUISITE: 10834109 Pre-Algebra or Math placement assessment equivalent and COREQUISITE: 10838105 Intro to Reading and Study Skills or Reading placement assessment equivalent



AGRIBUSINESS LIVESTOCK - BASIC

Program Number 61-006-3 Certificate • 12 credits

ABOUT THE PROGRAM

Introduces the learner to animal health, diseases, and immune systems, with an emphasis on healthy animals, the application of livestock breeding, phenotypic and genotypic effects, and selection. Provides an understanding of livestock anatomy, endocrinology, and factors that influence reproduction performance. Also introduces the student to financial impacts of running a successful agribusiness or farm operation, which includes a basic understanding of business management practices, and public policies.

PROGRAM OUTCOMES

- · Apply genetic applications and methods of mating selection
- Apply the understanding of reproduction and fertility to reproduction performance
- Apply and know the common diseases of domestic livestock and related intervention practices
- Prepare for Artificial Insemination Certification seminar/exam (additional vendor fee will be assessed if this option is chosen)

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- · Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

This certificate's class schedule is provided in the iFlex format which allows students to take courses online, face-to-face or flex between the two.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

Credits transfer to LTC's Agriculture Technician Technical Diploma, which can be completed with one additional year of part-time classes. Students may then enter the second year of the associate degree, Agribusiness Science & Technology.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No. | Class Title | Credit(s) |
|-------------|--------------------------|-----------|
| | Term 1 (Fall) | |
| 10006112 | Farm Business Management | 3 |
| 10006114 | Intro to Animal Science | 3 |
| | | 6 |

Term 2 (Spring)

| 10006110 | Ag Finance & Accounting | 3 |
|----------|-------------------------------|---|
| 10006124 | Principles of Animal Breeding | 3 |
| | | 6 |

TOTAL 12

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year. AG FINANCE AND ACCOUNTING...introduces learner to major aspects of agribusiness financial management through extensive problem solving, financial analysis and planning. Students will describe and calculate the sweet 16 ratios, business cash flows, inventory controls, budgeting and borrowing considerations of various types of agribusinesses. Relevant software tools will be introduced. PREREQUISITE: 10006112 Farm Business Management

FARM BUSINESS MANAGEMENT...provides learner with basic business management practices including the development of a business plan, establishment of short and long range goals, identification and implementation alternatives for reaching goals, and development of strategies to monitor progress. The importance of designing a business mission statement based on goals is emphasized.

INTRO TO ANIMAL SCIENCE...provides animal science fundamentals including animal health, animal environments, anatomy and physiology, genetics and reproduction, animal feedstuffs, and animal-related safety.

PRINCIPLES OF ANIMAL BREEDING...applies genetic principles and reproduction physiology to livestock improvement including elementary population genetics, phenotypic and genotypic effects of selection, selection methods, and systems of mating. PREREQUISITE: 10006114 Intro to Animal Science or 10091102 Dairy Cattle Management

AGRIBUSINESS SCIENCE & TECHNOLOGY

Program Number 10-006-2

Credit(s)

3

3

3

15

15

Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM Catalog No. Class Title Successful individuals employed in agribusiness occupations understand the importance of running efficient and profitable operations in the areas of records/business analysis, Term 1 10006112 Farm Business Management credit/marketing/purchasing, farm business transfers, goal setting, human relations, crop/ 10006114 Intro to Animal Science soil management, and livestock nutrition/management. Maximize your opportunities 10006116 Intro to Soil Science for success by increasing your agricultural business and production management 108 knowledge. 108 **PROGRAM OUTCOMES** · Develop an agribusiness management plan. Apply economic and marketing strategies to agribusiness industry. Apply relevant technologies. 100 · Create a crop management plan. 100 · Create a livestock management plan. 100 · Investigate opportunities in agribusiness. 100 108 Interact as a professional in agribusiness. 10006128 Agribusiness Internship* CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/futurestudents/transfer. Term 3 PS 100

| ADMISSIONS | AND | FIRST | SEMESTER | R ENROLLMEN | T STEP |
|------------|-----|-------|----------|-------------|--------|
|------------|-----|-------|----------|-------------|--------|

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire
- plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/ financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTES

To experience technology and demonstrations in the industry and classroom, students should have transportation and participate in-person. Through PAS (Professional Agriculture Students), students participate in competitions and activities.

Program students are eligible to be issued a LTC laptop while learning and applying the software applications.

The program schedule is provided in the iFlex format, which allows you to take courses online, face-to-face, or flex between the two. To participate synchronously in class using videoconferencing software, a minimum of 5Mb as well as audio and visual capabilities on your computer is required.

Out-of-district students and working adults are able to take the program online, which also includes the expectation to complete assigned labs, technology exploration, and demonstrations.

Graduates of the Dairy Herd Management program can earn their Dairy Business Management associate degree with one additional year of this Agribusiness Science and Technology program's coursework.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| 301196 304123 | Oral/Interpersonal Communication Math with Business Applications | 3 3 15 |
|------------------|---------------------------------------------------------------------|---------------------|
| | Term 2 | |
| 006110 | Ag Finance & Accounting | 3 |
| 06122 | Principles of Crop Production | 3 |
| 006124 | Principles of Animal Breeding | 3 |
| 006134 | Animal Records | 1 |
| 309195 | Economics | 3 |
| 06128 | Agribusiness Internship* | 2 |

| 10006144 | Nutrition Principles | 3 |
|----------|-------------------------------------|---|
| 10006146 | Precision Ag Technologies | 3 |
| 10006133 | Ag Product Promotion | 3 |
| 10006115 | Agricultural Sales & Communications | 3 |
| 10809198 | Introduction to Psychology | 3 |
| | | |

Term 4

| 10006130 | Agricultural Commodity Marketing | 3 |
|----------|------------------------------------|----|
| 10006140 | Legal Aspects of Agribusiness | 3 |
| 10006141 | Livestock Production Systems & | 3 |
| | Management | |
| 10006143 | Ag Employability & Professionalism | 3 |
| 10801195 | Written Communications | 3 |
| | | 15 |

TOTAL 60

*All students (online and in-person) work with instructor to select an appropriate internship based on their career doals.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

AG EMPLOYABILITY & PROFESSIONALISM...expects the student to prepare for a career in agriculture, which includes personality assessments, advocacy, professional networking, job shadowing, stress management, career exploration, problem solving and business etiquette. Students will further develop leadership, management and conflict resolution skills through the UWEX Employer of Choice certification. The student will gather and organize the components of a portfolio to showcase the skills and experiences that have prepared them for a career in the agriculture industry.

AG PRODUCT PROMOTION...prepares students to market and sell agricultural products. Topics include creating a marketing plan, promotion, branding, product pricing, marketing research and tools, budgeting and product positioning using the marketing mix. Furthermore, students will investigate alternative ag product markets and value added agriculture.

AGRIBUSINESS INTERNSHIP...provides the student the opportunity to choose from a broad variety of occupational experiences in the agribusiness industry. Student will work with faculty to develop a plan and to identify, coordinate, and evaluate workassociated learning experiences as they relate to the major career focus of the student. PREREQUISITE: 10006112 Farm Business Management and COREQUISITES: 10006122 Principles of Crop Production, 10006124 Principles of Animal Breeding or 10091103 Dairy Reproductive Management

AGRICULTURAL COMMODITY MARKETING...provides the student with the fundamentals of agricultural commodity marketing including risk management, futures market structure and function, futures commodity contract specification, as well as futures trading procedures and strategies including hedging and options. Students will engage in practice commodity marketing using a real world simulator and follow commodity markets and determine sources of variability affecting the futures prices. PREREQUISITE: 10006126 Agribusiness Economics or 10809195 Economics or 10006135 Agriculture Business Accounting

AGRICULTURAL FINANCE AND ACCOUNTING...introduces the learner to the basics of agricultural financial management including securing credit, working with financial statements (balance sheet, income statement, cash flows, owner equity) and investment analysis. Additionally, students will perform basic financial analysis, calculate depreciation, and prepare amortization schedules. Students will learn the basics of agricultural accounting and will practice using basic accounting software programs. PREREQUISITE: 10006112 Farm Business Management or CONDITION: 310011 Horticulture Technician and COREQUISITE: 10804123 Math with Business Apps

AGRICULTURE SALES AND COMMUNICATIONS...prepares the student with the tools to become an effective sales person, including pre-call planning, uncovering customer needs, conducting and completing a sale. Includes the fundamental principles of marketing agricultural products, pricing, merchandising and creating product marketing plans. Students will demonstrate effective communication skills needed to develop positive working relationships in agribusiness including team building, conflict resolution and industry advocacy.

ANIMAL RECORDS...introduces learner to records management through handson applications including the setup and use of computerized record-keeping software, completion of a sample farm record problem utilizing computerized records, a review of various record-keeping systems, as well as the selection and implementation of various computerized record programs. Software tools, such as PCDART, CowManager, and DairyCOMP 305, will be utilized. COREQUISITES: 10006124 Prin of Animal Breeding

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

FARM BUSINESS MANAGEMENT...provides learner with basic business management practices including the development of a business plan, establishment of short and long range goals, identification and implementation alternatives for reaching goals, and development of strategies to monitor progress. The importance of designing a business mission statement based on goals is emphasized.

INTRO TO ANIMAL SCIENCE...provides animal science fundamentals including animal health, animal environments, anatomy and physiology, genetics and reproduction, animal feedstuffs, and animal-related safety.

INTRO TO SOIL SCIENCE...provides fundamentals of soil's physical properties, chemical properties, biological properties, soil formation, classification, essential nutrients and soil survey. There will be emphasis on soil and water conservation practices that can be used to reduce soil erosion.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

LEGAL ASPECTS OF AGRIBUSINESS...provides students with pertinent information of the legal liabilities and regulations of an agribusiness at the state and federal levels. Course content includes legal descriptions, contractual agreements, employee and consumer rights, insurance, debt collection, as well as bankruptcy and employment protection issues as regulated by DOL, OSHA and DWD. COREQUISITE: 10006130 Ag Commodity Marketing

LIVESTOCK PRODUCTION SYSTEMS AND MANAGEMENT...engages the student in the exploration and study of a variety of livestock management systems including feeding arrangements, health, marketing considerations, the use of computer systems, personnel issues, and financial impacts of management decisions. PREREQUISITE: 10006114 Intro to Animal Science or 10091102 Dairy Cattle Management

MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

NUTRITION PRINCIPLES...introduces learner to the principles of nutrition as presented on a comparative species basis including characteristics, physiological functions, interrelationships, and deficiency symptoms as they pertain to carbohydrates, fats, proteins, mineral elements, and vitamins. PREREQUISITE: 10006113 Intro to Animal Science or 10091102 Dairy Cattle Management

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PRECISION AG TECHNOLOGIES...provides experiences to the student in agricultural precision technologies including bio-technologies, application industries, livestock equipment, precision farming, financial resource management, plant protection, sustainable agriculture, environmental impacts of agriculture, agricultural workforce, and agricultural production. To experience precision technology and demonstrations throughout the industry, students are required to drive or have appropriate transportation to attend labs.

PRINCIPLES OF ANIMAL BREEDING...applies genetic principles and reproduction physiology to livestock improvement including elementary population genetics, phenotypic and genotypic effects of selection, selection methods, and systems of mating. PREREQUISITE: 10006114 Intro to Animal Science or 10091102 Dairy Cattle Management

PRINCIPLES OF CROP PRODUCTION...provides knowledge of crop and soil nutrient management, including use of both commercial fertilizers and manure. Course topics include purchase or lease options for land, agronomy consulting programs, tillage and conservation plans, soil nutrient plans, cropping plans, managing nutrient waste, crop harvest and storage and production records. PREREQUISITE: 10006116 Intro to Soil Science or 10091105 Dairy Feeding Management

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

AKESHORE TECHNICAL COLLEGE

PART-TIME • DAYS **AGRIBUSINESS SCIENCE & TECHNOLOGY**

Class Title

1

1

1

1

Program Number 10-006-2 Associate Degree

Credit(s)

3

3

3

9

3

3

3

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3

3

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ABOUT THE PROGRAM

Successful individuals employed in agribusiness occupations understand the importance of running efficient and profitable operations in the areas of records/ business analysis, credit/marketing/purchasing, farm business transfers, goal setting, human relations, crop/soil management, and livestock nutrition/ management. Maximize your opportunities for success by increasing your agricultural business and production management knowledge.

PROGRAM OUTCOMES

- · Develop an agribusiness management plan.
- · Apply economic and marketing strategies to agribusiness industry.
- · Apply relevant technologies.
- · Create a crop management plan.
- Create a livestock management plan.
- · Investigate opportunities in agribusiness.
- Interact as a professional in agribusiness.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTES

To experience technology and demonstrations in the industry and classroom, students should have transportation and participate in-person. Through PAS (Professional Agriculture Students), students participate in competitions and activities.

Program students are eligible to be issued a LTC laptop while learning and applying the software applications.

The program schedule is provided in the iFlex format, which allows you to take courses online, face-to-face, or flex between the two. To participate synchronously in class using videoconferencing software, a minimum of 5Mb as well as audio and visual capabilities on your computer is required.

Out-of-district students and working adults are able to take the program online, which also includes the expectation to complete assigned labs, technology exploration, and demonstrations.

Graduates of the Dairy Herd Management program can earn their Dairy Business Management associate degree with one additional year of this Agribusiness Science and Technology program's coursework.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

Catalog No. Term 1 (Fall 2023) 10006112 Farm Business Management 10006116 Intro to Soil Science 10804123 Math with Business Applications

Term 2 (Spring 2024)

| | · · · · · · · · · · · · · · · · · · · |
|----------|---------------------------------------|
| 10006110 | Ag Finance & Accounting |
| 10006122 | Principles of Crop Production |
| 10809195 | Economics |
| | |

Term 3 (Fall 2024)

| 10006114 | Intro to Animal Science |
|----------|----------------------------------|
| 10801196 | Oral/Interpersonal Communication |
| 10006133 | Ag Product Promotion |

Term 4 (Spring 2025)

| 10006134 | Animal Records |
|----------|----------------------------------|
| 10006124 | Principles of Animal Breeding |
| 10006128 | Agribusiness Internship* |
| 10006130 | Agricultural Commodity Marketing |
| | |
| | |
| | Term 5 (Fall 2025) |

Term 5 (Fall 2025)

| 0006146 | Precision Ag Technologies |
|---------|---------------------------|
| 0006144 | Nutrition Principles |

Term 6 (Spring 2026)

| 10006143 | Ag Employability & Professionalism |
|----------|-------------------------------------------|
| 10006141 | Livestock Production Systems & Management |

Term 7 (Fall 2026)

| 10006115 | Agricultural Sales & Communications |
|----------|-------------------------------------|
| 10809198 | Introduction to Psychology |

Term 8 (Spring 2027)

| 0006140 | Legal Aspects of Agribusiness |
|---------|-------------------------------|
| 0801195 | Written Communications |

TOTAL 60

*All students (online and in-person) work with instructor to select an appropriate internship based on their career goals. **Online Students: Please register for Accounting for Professionals

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year. AG EMPLOYABILITY & PROFESSIONALISM ... expects the student to prepare for a career in agriculture, which includes personality assessments, advocacy, professional networking, job shadowing, stress management, career exploration, problem solving and business etiquette. Students will further develop leadership, management and conflict resolution skills through the UWEX Employer of Choice certification. The student will gather and organize the components of a portfolio to showcase the skills and experiences that have prepared them for a career in the agriculture industry.

AG PRODUCT PROMOTION ... prepares students to market and sell agricultural products. Topics include creating a marketing plan, promotion, branding, product pricing, marketing research and tools, budgeting and product positioning using the marketing mix. Furthermore, students will investigate alternative ag product markets and value added agriculture.

AGRIBUSINESS INTERNSHIP ... provides the student the opportunity to choose from a broad variety of occupational experiences in the agribusiness industry. Student will work with faculty to develop a plan and to identify, coordinate, and evaluate workassociated learning experiences as they relate to the major career focus of the student. PREREQUISITE: 10006112 Farm Business Management and COREQUISITES: 10006122 Principles of Crop Production, 10006124 Principles of Animal Breeding or 10091103 Dairy Reproductive Management

AGRICULTURAL COMMODITY MARKETING ... provides the student with the fundamentals of agricultural commodity marketing including risk management, futures market structure and function, futures commodity contract specification, as well as futures trading procedures and strategies including hedging and options. Students will engage in practice commodity marketing using a real world simulator and follow commodity markets and determine sources of variability affecting the futures prices. PREREQUISITE: 10006126 Agribusiness Economics or 10809195 Economics or 10006135 Agriculture Business Accounting

AGRICULTURAL FINANCE AND ACCOUNTING ... introduces the learner to the basics of agricultural financial management including securing credit, working with financial statements (balance sheet, income statement, cash flows, owner equity) and investment analysis. Additionally, students will perform basic financial analysis, calculate depreciation, and prepare amortization schedules. Students will learn the basics of agricultural accounting and will practice using basic accounting software programs. PREREQUISITE: 10006112 Farm Business Management or CONDITION: 310011 Horticulture Technician and COREQUISITE: 10804123 Math with Business Apps

AGRICULTURE SALES AND COMMUNICATIONS...prepares the student with the tools to become an effective sales person, including pre-call planning, uncovering customer needs, conducting and completing a sale. Includes the fundamental principles of marketing agricultural products, pricing, merchandising and creating product marketing plans. Students will demonstrate effective communication skills needed to develop positive working relationships in agribusiness including team building, conflict resolution and industry advocacy.

ANIMAL RECORDS ... introduces learner to records management through handson applications including the setup and use of computerized record-keeping software, completion of a sample farm record problem utilizing computerized records, a review of various record-keeping systems, as well as the selection and implementation of various computerized record programs. Software tools, such as PCDART, CowManager, and DairyCOMP 305, will be utilized. COREQUISITES: 10006124 Prin of Animal Breeding

ECONOMICS ... provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

FARM BUSINESS MANAGEMENT ... provides learner with basic business management practices including the development of a business plan, establishment of short and long range goals, identification and implementation alternatives for reaching goals, and development of strategies to monitor progress. The importance of designing a business mission statement based on goals is emphasized.

INTRO TO ANIMAL SCIENCE ... provides animal science fundamentals including animal health, animal environments, anatomy and physiology, genetics and reproduction, animal feedstuffs, and animal-related safety.

INTRO TO SOIL SCIENCE...provides fundamentals of soil's physical properties, chemical properties, biological properties, soil formation, classification, essential nutrients and soil survey. There will be emphasis on soil and water conservation practices that can be used to reduce soil erosion.

INTRODUCTION TO PSYCHOLOGY ... introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

LEGAL ASPECTS OF AGRIBUSINESS ... provides students with pertinent information of the legal liabilities and regulations of an agribusiness at the state and federal levels. Course content includes legal descriptions, contractual agreements, employee and consumer rights, insurance, debt collection, as well as bankruptcy and employment protection issues as regulated by DOL, OSHA and DWD. COREQUISITE: 10006130 Ag Commodity Marketing

LIVESTOCK PRODUCTION SYSTEMS AND MANAGEMENT ... engages the student in the exploration and study of a variety of livestock management systems including feeding arrangements, health, marketing considerations, the use of computer systems, personnel issues, and financial impacts of management decisions. PREREQUISITE: 10006114 Intro to Animal Science or 10091102 Dairy Cattle Management

MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

NUTRITION PRINCIPLES ... introduces learner to the principles of nutrition as presented on a comparative species basis including characteristics, physiological functions, interrelationships, and deficiency symptoms as they pertain to carbohydrates, fats, proteins, mineral elements, and vitamins. PREREQUISITE: 10006113 Intro to Animal Science or 10091102 Dairy Cattle Management

ORAL/INTERPERSONAL COMMUNICATION ... provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PRECISION AG TECHNOLOGIES ... provides experiences to the student in agricultural precision technologies including bio-technologies, application industries, livestock equipment, precision farming, financial resource management, plant protection, sustainable agriculture, environmental impacts of agriculture, agricultural workforce, and agricultural production. To experience precision technology and demonstrations throughout the industry, students are required to drive or have appropriate transportation to attend labs.

PRINCIPLES OF ANIMAL BREEDING...applies genetic principles and reproduction physiology to livestock improvement including elementary population genetics, phenotypic and genotypic effects of selection, selection methods, and systems of mating. PREREQUISITE: 10006114 Intro to Animal Science or 10091102 Dairy Cattle Management

PRINCIPLES OF CROP PRODUCTION ... provides knowledge of crop and soil nutrient management, including use of both commercial fertilizers and manure. Course topics include purchase or lease options for land, agronomy consulting programs, tillage and conservation plans, soil nutrient plans, cropping plans, managing nutrient waste, crop harvest and storage and production records. PREREQUISITE: 10006116 Intro to Soil Science or 10091105 Dairy Feeding Management

WRITTEN COMMUNICATION ... teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

gotoltc.edu | 1290 North Avenue, Cleveland, WI 53015 | 1.888.GO TO LTC | HLC Accredited hlcommission.org LAKESHORE TECHNICAL COLLEGE DOES NOT DISCRIMINATE AGAINST PROTECTED CLASSES, INCLUDING BUT NOT LIMITED TO RACE, COLOR, NATIONAL ORIGIN, RELIGION, SEX, OR GENDER – INCLUDING SEXUAL ORIENTATION, GENDER IDENTITY, GENDER EXPRESSION, DISABILITY OR AGE IN EMPLOYMENT, ADMISSIONS, OR ITS PROGRAMS OR ACTIVITIES. TO HANDLE INQUIRIES REGARDING LAKESHORE'S NONDISCRIMINATION POLICIES, CONTACT MGR-ACCESS, EQUITY, & INCLUSION (STUDENTS) 920.693.1120, NICOLE, YANG@GOTOLTC.EDU / EXECUTIVE DIRECTOR OF HUMAN RESOURCES (STAFF/OTHERS) 920.693.1139, MARISSA.HOLST@GOTOLTC.EDU. 1290 NORTH AVENUE, CLEVELAND, WI 53015. TTY 711 GOTOLTC.EDU/EQUAL-OPPORTUNITY-STATEMENT



AGRICULTURE TECHNICIAN

Catalog No. Class Title

Program Number 31-006-2 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

If a career in agriculture is in your future, this program will help you to prepare to manage a successful agribusiness operation. You will gain experience in agricultural production management and technology, as well as management principles, finance, sales, economics, crop production, and animal fundamentals.

PROGRAM OUTCOMES

- · Apply relevant technologies.
- Investigate opportunities in agribusiness.
- · Interact as a professional in agribusiness.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your
- assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTES

To experience technology and demonstrations in the industry and classroom, students should have transportation and participate in-person. Through PAS (Professional Agriculture Students), students participate in competitions and activities.

Program students are eligible to be issued a LTC laptop while learning and applying the software applications.

The program schedule is provided in the iFlex format, which allows you to take courses online, face-to-face, or flex between the two. To participate synchronously in class using videoconferencing software, a minimum of 5Mb as well as audio and visual capabilities on your computer is required.

Out-of-district students and working adults are able to take the program online, which also includes the expectation to complete assigned labs, technology exploration, and demonstrations.

Agriculture Technician graduates have the opportunity to complete Agribusiness Science and Technology Associate degree with one additional year of college.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| | Term 1 | |
|----------------------|----------------------------------------------------------|----|
| 10006112 | Farm Business Management | 3 |
| 10006114 | Intro to Animal Science | 3 |
| 10006116 | Intro to Soil Science | 3 |
| 10801196 | Oral/Interpersonal Communications | 3 |
| 10804123 | Math with Business Applications | 3 |
| | | 15 |
| | | 10 |
| | | 15 |
| | Term 2 | 15 |
| 10006110 | | 3 |
| 10006110 10006122 | Ag Finance & Accounting | |
| | | 3 |
| 10006122 | Ag Finance & Accounting Principles of Crop Production | 3 |

10809195 Economics 3 10006128 Agribusiness Internship* 2 15

TOTAL 30

Credit(s)

*All students (online and in-person) work with instructor to select an appropriate internship based on their career doals.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

AGRIBUSINESS INTERNSHIP...provides the student the opportunity to choose from a broad variety of occupational experiences in the agribusiness industry. Student will work with faculty to develop a plan and to identify, coordinate, and evaluate workassociated learning experiences as they relate to the major career focus of the student. PREREQUISITE: 10006112 Farm Business Management and COREQUISITES: 10006122 Principles of Crop Production, 10006124 Principles of Animal Breeding or 10091103 Dairy Reproductive Management

AGRICULTURAL FINANCE AND ACCOUNTING...introduces the learner to the basics of agricultural financial management including securing credit, working with financial statements (balance sheet, income statement, cash flows, owner equity) and investment analysis. Additionally, students will perform basic financial analysis, calculate depreciation, and prepare amortization schedules. Students will learn the basics of agricultural accounting and will practice using basic accounting software programs. PREREQUISITE: 10006112 Farm Business Management or CONDITION: 310011 Horticulture Technician and COREQUISITE: 10804123 Math with Business Apps

ANIMAL RECORDS...introduces learner to records management through handson applications including the setup and use of computerized record-keeping software, completion of a sample farm record problem utilizing computerized records, a review of various record-keeping systems, as well as the selection and implementation of various computerized record programs. Software tools, such as PCDART, CowManager, and DairyCOMP 305, will be utilized. COREQUISITES: 10006124 Principles of Animal Breeding

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

FARM BUSINESS MANAGEMENT...provides learner with basic business management practices including the development of a business plan, establishment of short and long range goals, identification and implementation alternatives for reaching goals, and development of strategies to monitor progress. The importance of designing a business mission statement based on goals is emphasized.

INTRO TO ANIMAL SCIENCE...provides animal science fundamentals including animal health, animal environments, anatomy and physiology, genetics and reproduction, animal feedstuffs, and animal-related safety.

INTRO TO SOIL SCIENCE...provides fundamentals of soil's physical properties, chemical properties, biological properties, soil formation, classification, essential nutrients and soil survey. There will be emphasis on soil and water conservation practices that can be used to reduce soil erosion.

MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PRINCIPLES OF ANIMAL BREEDING...applies genetic principles and reproduction physiology to livestock improvement including elementary population genetics, phenotypic and genotypic effects of selection, selection methods, and systems of mating. PREREQUISITE: 10006114 Intro to Animal Science or 10091102 Dairy Cattle Management

PRINCIPLES OF CROP PRODUCTION...provides knowledge of crop and soil nutrient management, including use of both commercial fertilizers and manure. Course topics include purchase or lease options for land, agronomy consulting programs, tillage and conservation plans, soil nutrient plans, cropping plans, managing nutrient waste, crop harvest and storage and production records. PREREQUISITE: 10006116 Intro to Soil Science or 10091105 Dairy Feeding Management

LAKESHORE TECHNICAL COLLEGE

AUTO COLLISION REPAIR & REFINISH TECHNICIAN

Catalog No. Class Title

Program Number 31-405-1 **Technical Diploma • Two Terms**

Credit(s)

ABOUT THE PROGRAM

If you love cars and are seeking a career that offers challenging work, provides abundant opportunities for growth and advancement, and rewards hard work and dedication, think seriously about the auto collision industry. Pursuing a career in the collision industry can take your interests and talents to the next level by developing highly sought-after skills. There has never been a better time to consider a career in an industry with such excellent growth potential. Jobs in the collision industry will never be outsourced, and this job saves lives by returning safe and properly repaired vehicles to the road.

PROGRAM OUTCOMES

- · Straighten collision damaged sheet metal.
- · Refinish automobile body parts.
- · Replace non-structural panels and parts.
- · Perform auto collision welding procedures.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned Program Counselor/Success Coach to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

- \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.
- Students are eligible to purchase Snap-On tools as part of their tuition in Terms 1 and 2 at an approximate total cost of \$2,700.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

- The program is accredited by ASE (Automotive Service Excellence). Students are well prepared to take the ASE Exam.
- Students are prepared for and take two of the I-CAR (Inter-Industry Conference on Auto Collision Repair) Welding Certifications. They are the MIG (Metal Inert Gas) Steel and MIG (Metal Inert Gas) Aluminum I-CAR (Inter-Industry Conference on Auto Collision Repair) Welding Exams.
- This program accepts new students in both the fall and spring terms.
- · Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

This program offers flexible start dates throughout the year. Students can attend classes anytime Monday through Thursday from 9am-4:30pm.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| | Term 1 | |
|----------|-------------------------------------------|---|
| 31405320 | Introduction to Auto Collision | 1 |
| 31405350 | Auto Collision Panel Repair Fundamentals | 1 |
| 31405351 | Auto Collision Panel Repair Intermediate | 1 |
| 31405352 | Auto Collision Plastic Repair | 1 |
| 31405356 | Auto Collision Panel Alignment | 1 |
| 31405357 | Auto Collision Panel Replacement | 1 |
| 31405358 | Auto Collision Panel Repair Advanced | 1 |
| 31405359 | Auto Collision Suspension and Steering | 1 |
| 31405360 | Auto Collision Vehicle Air Conditioning | 1 |
| 32405313 | Hybrid and Electric Vehicles | 1 |
| 31405361 | Auto Collision Vertical Steel MIG Welding | 1 |
| 31405362 | Auto Collision Overhead Steel MIG Welding | 1 |
| 31405341 | Structural Analysis | 1 |
| 31405363 | Vehicle Anchoring | 1 |
| 31405364 | Vehicle Structural Repair | 1 |
| 31405365 | Structural Steel Sectioning | 1 |
| 31405366 | Structural Steel Replacement | 1 |

Term 2

| 31405340 | Introduction to Auto Refinishing | 1 |
|----------|------------------------------------------|---|
| 31405367 | Auto Refinishing Surface Preparation | 1 |
| 31405368 | Auto Refinishing Masking | 1 |
| 31405369 | Auto Refinishing Color Application | 1 |
| 31405370 | Auto Refinishing Color Matching | 1 |
| 31405371 | Auto Refinishing Color Blending | 1 |
| 31405372 | Auto Refinishing Multiple Panel | 1 |
| 31405373 | Auto Refinishing Buffing and Polishing | 1 |
| 31405374 | MIG Aluminum Vertical Welding | 1 |
| 31405375 | MIG Aluminum Overhead Welding | 1 |
| 32405333 | Collision Center Customer Service | 1 |
| 31405376 | Collision Estimating and Repair Planning | 1 |
| 31405377 | Vehicle Repairs and Finishing | 3 |
| 31405378 | Vehicle Repairs and Finishing 2 OR | 1 |
| | 32405317 Internship – Auto Collision | |
| | | |

16

17

TOTAL 33

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

AUTO COLLISION OVERHEAD STEEL MIG WELDING...prepares the learner to demonstrate the four welds performed in the overhead position for the I-CAR Steel Welding Certification. Learner will demonstrate proper set up and maintenance of steel MIG welding equipment. COREQUISITE: 31405361 Auto Collision Vertical Steel MIG Welding

AUTO COLLISION PANEL ALIGNMENT...prepares the learner to demonstrate removal, installation and alignment of bolted on automotive body panels and parts. Learners will demonstrate removal and installation of door handles, door glass and related components. COREQUISITE: 31405320 Introduction to Auto Collision

AUTO COLLISION PANEL REPAIR ADVANCED...prepares the learner to demonstrate panel repairs with multiple contours and compound curves. Learners will demonstrate glue-pulling dent repair (GPDR) and the proper use of paintless dent repair (PDR) tools. Learner will demonstrate efficiency and proper dent repair process. COREQUISITE: 31405351 Auto Collision Panel Repair Intermediate

AUTO COLLISION PANEL REPAIR FUNDAMENTALS...prepares the learner to demonstrate hammer and dolly techniques, proper application of body filler and finish sanding. Learner will demonstrate efficiency and proper dent repair processes. COREQUISITE: 31405320 Introduction to Auto Collision

AUTO COLLISION PANEL REPAIR INTERMEDIATE...prepares the learner to demonstrate heat shrinking techniques and the proper use of weld on pulling attachments and hydraulics to straighten a damaged panel. Learner will demonstrate efficiency and proper dent repair processes. COREQUISITE: 31405350 Auto Collision Panel Repair Fund

AUTO COLLISION PANEL REPLACEMENT...prepares the learner to demonstrate a proper door skin and rocker panel replacement and fit-up using specialized tools and squeeze type resistance spot welding. Learners will also demonstrate proper application of internal corrosion protection. COREQUISITE: 31405356 Auto Collision Panel Alignment

AUTO COLLISION PLASTIC REPAIR...prepares the learner to identify automotive plastics and to demonstrate proper nitrogen and airless welding repairs. Learner will demonstrate adhesive repairs to flexible and rigid plastics. Learner will demonstrate efficiency and proper plastic repair processes. COREQUISITE: 31405320 Introduction to Auto Collision

AUTO COLLISION SUSPENSION AND STEERING...prepares the learner to diagnose, inspect, adjust and repair suspension systems and demonstrate the proper removal and replacement of a MacPherson strut, lower control arm, steering knuckle and related components. COREQUISITE: 31405320 Introduction to Auto Collision

AUTO COLLISION VEHICLE AIR CONDITIONING...prepares the learner to identify automotive refrigerants and to demonstrate proper evacuation, repair and recharge of automotive air conditioning systems. Learners can earn A/C certification from the U.S. Environmental Protection Agency.

AUTO COLLISION VERTICAL STEEL MIG WELDING...prepares the learner to demonstrate the six welds performed in the vertical position for the I-CAR Steel Welding Certification. Learner will demonstrate proper set up and maintenance of steel MIG welding equipment. COREQUISITE: 31405320 Introduction to Auto Collision

AUTO REFINISHING BUFFING AND POLISHING...prepares the learner to properly demonstrate the removal of panel overspray, orange peel, sags, runs, sanding marks, contour mapping, low gloss condition, dirt and dust. Learner will demonstrate proper defect removal, sanding, buffing and polishing processes. COREQUISITE: 31405340 Introduction to Auto Refinishing

AUTO REFINISHING COLOR APPLICATION...prepares the learner to demonstrate the proper application of a solvent basecoat-clearcoat paint finish. Learner will demonstrate proper spray-gun set up, spray technique, basecoat defect removal and clearcoat application. COREQUISITE: 31405340 Introduction to Auto Refinishing

AUTO REFINISHING COLOR BLENDING...prepares the learner to identify poor hiding colors and determine necessary action. Learner will properly demonstrate color blending methods, the application of multi-stage coats for panel blending and reverse blending techniques. COREQUISITE: 31405370 Auto Refinishing Color Matching

AUTO REFINISHING COLOR MATCHING...prepares the learner to use the color wheel and to identify alternate color formulas. Learner will create test panels with a proper color match and demonstrate the modification of color formulas to achieve a blendable color match. COREQUISITE: 31405369 Auto Refinishing Color Application

AUTO REFINISHING MASKING...prepares the learner to properly demonstrate back masking, the application of plastic bag to vehicle and masking parts suspended from racks or stands. Learner will demonstrate the proper use of fine-line, aperture and lifting tapes. COREQUISITE: 31405367 Auto Refinishing Surface Preparation

AUTO REFINISHING MULTIPLE PANEL...prepares the learner to demonstrate the proper application of a solvent basecoat-clearcoat paint finish to multiple adjacent automotive body panels. Learner will troubleshoot paint problems and demonstrate proper panel overlap producing an industry quality refinish. COREQUISITE: 31405340 Introduction to Auto Refinishing AUTO REFINISHING SURFACE PREPARATION...prepares the learner to properly demonstrate proper surface preparation for primer surfacer, sealer, basecoat and clearcoat operations. Learner will demonstrate wet and dry preparation methods on steel and plastic automotive body panels and parts. COREQUISITE: 31405340 Intro to Auto Refinishing

COLLISION CENTER CUSTOMER SERVICE...prepares the learner to create positive customer relationships for collision repair businesses. Learner will identify customer concerns, needs and expectations and project positive attitude, cooperation and professionalism during the repair process.

COLLISION ESTIMATING AND REPAIR PLANNING... prepares the learner to demonstrate vehicle tear-down and inspection. Learner will identify damage to energy absorbing components and determine repairability of vehicle components made from various materials. Learner will create and interpret damage estimates.

HYBRID AND ELECTRIC VEHICLES...prepares the learner to identify automotive high voltage systems and to demonstrate proper shut down and initiation procedures. Learners will demonstrate the proper removal and installation of vehicle (SRS) supplemental restraint system components and test electrical circuits.

INTERNSHIP - AUTO COLLISION...requires students to complete 72 hours (1 credit) of work in an automotive collision repair facility. Students are responsible for seeking and obtaining the internship position. Course requirements include maintaining a log of work activities, identifying and receiving approval from the job supervisor and instructor, and completing a work-related project. Students may meet periodically at LTC. COREQUISITE: 31405377 Vehicle Repairs and Finishing

INTRODUCTION TO AUTO COLLISION...prepares the learner to work in the lab environment with proper personal protective equipment. An overview of the collision repair industry will be provided and learner will demonstrate vehicle lift safety and the proper use of hand tools and shop equipment.

INTRODUCTION TO AUTO REFINISHING...prepares learner to work in the refinishing lab environment with proper personal protection equipment. Learner will demonstrate proper mixture of paint products and the proper use and care of spray guns and related tools.

MIG ALUMINUM OVERHEAD WELDING...prepares the learner to demonstrate the four welds performed in the overhead position for the I-CAR Aluminum Welding Certification. Learner will demonstrate proper set up and maintenance of Aluminum MIG welding equipment. COREQUISITE: 31405374 MIG Aluminum Vertical Welding

MIG ALUMINUM VERTICAL WELDING...prepares the learner to demonstrate the six welds performed in the vertical position for the I-CAR Aluminum Welding Certification. Learner will demonstrate proper set up and maintenance of Aluminum MIG welding equipment. COREQUISITE: 31405362 Auto Collision Overhead Steel MIG Welding

STRUCTURAL ANALYSIS...prepares the learner to demonstrate vehicle measuring using mechanical and electronic systems. Learner will interpret vehicle dimension data and demonstrate proper vehicle upper body, lower body and component measuring. COREQUISITE: 31405320 Introduction to Auto Collision

STRUCTURAL STEEL REPLACEMENT...prepares the learner to properly demonstrate the attachment and replacement of structural components using squeeze type resistance welding, riveting, structural adhesive and weld bonding. Learners will demonstrate efficiency and follow OEM processes and recommendations. COREQUISITE: 31405365 Structural Steel Sectioning

STRUCTURAL STEEL SECTIONING...prepares the learner to properly demonstrate welding, cutting and joining methods necessary to section a unibody frame rail. Learners will demonstrate efficiency and proper sectioning processes and prepare to earn the I-Car SPS05 Steel Sectioning Certification. COREQUISITE: 31405364 Vehicle Structural Repair

VEHICLE ANCHORING...prepares the learner to demonstrate proper anchoring for unibody and full frame vehicles. Learner will demonstrate the proper use of pinch-weld clamps, truck clamps and dedicated holding fixtures to secure vehicle to frame straightening equipment. COREQUISITE: 31405341 Structural Analysis

VEHICLE REPAIRS AND FINISHING...prepares the learner to demonstrate mastery of collision repair and refinishing skills on live customer repairs. Learner will demonstrate efficiency and proper repair processes. Repair work performed by learner will be meet or exceed instructor and customer expectations. PREREQUISITES: 31405358, 31405352, 31405357, 31405369, 31405360, 31405366, 32405313; COREQUISITES: 31405375, 31405371, 31405372, 31405373

VEHICLE REPAIRS AND FINISHING 2...prepares the learner to continue to demonstrate mastery of collision repair and refinishing skills on live customer repairs. Learner will demonstrate efficiency and proper repair processes. Repair work performed by learner will be meet or exceed instructor and customer expectations. COREQUISITE: 31405377 Vehicle Repairs and Finishing

VEHICLE STRUCTURAL REPAIR...prepares the learner to analyze and straighten vehicle structural damage and properly demonstrate pulling using hydraulic powered equipment, unibody and full frame alignment and cold stress relief methods necessary to repair vehicle structural parts. COREQUISITE: 31405363 Vehicle Anchoring

AUTOMOTIVE MAINTENANCE TECHNICIAN

Program Number 31-404-3 **Technical Diploma • Four Terms**

ABOUT THE PROGRAM

Most of us place great value on owning and operating our own vehicles. Our

independence stems from our ability to jump in our cars and trucks and go wherever we want, whenever we want. When our independence is threatened because our vehicles aren't working properly, the first person we seek is a qualified automotive maintenance technician. If you're mechanically talented, like to solve problems, and enjoy working with people, success in the automotive maintenance field may be just down the road for you.

PROGRAM OUTCOMES

- Demonstrate professionalism appropriate for the auto service industry
- · Perform maintenance and repair of automotive steering and suspension systems
- Perform maintenance and repair of automotive brake systems
- Perform maintenance and repair of automotive electrical and electronic systems
- Perform maintenance and repair of automotive internal combustion engines
- Perform maintenance and repair of automotive transmission/transaxle systems
- Perform maintenance and repair of automotive manual drive train and axle systems
- · Perform maintenance and repair of automotive heating and air conditioning systems
- · Perform maintenance and repair of engine performance systems

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

- \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.
- Students are eligible to purchase Snap-On tools as part of their Term 1, 2 and 3 enrollments. The total tool cost is approximately \$2,500.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTES

- The Spring Terms 2 and 4 are 17 weeks in length.
- This program is certified by ASE (Automotive Service Excellence). Students are well-prepared to take the ASE Exam.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Term 2 31404372 Auto Suspension and Steering | Catalog No. | Class Title | Credit(s) |
|----------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|
| Term 2 31404372 Auto Suspension and Steering | 31404303 31442345 31404306 31404370 31404370 31404312 31404311 31404310 | Auto Orientation and Safety Auto Mechanical Hand & Torque Tools Auto Servicing Welding Auto Body Applications for Mechanics Auto Brakes Auto Mechanical Math and Measuring Auto Electrical Math 1 Auto Introduction to Electricity 2 | 1 3 1 1 1 2 |
| 31404323Auto Wiring Mechanics 431404326Auto Basic Electrical 5 | 31404376 31404323 | Auto Suspension and Steering Auto Engine Repair Auto Wiring Mechanics 4 | 12 3 4 2 3 12 |

Term 3

| 31404328 | Auto Air Conditioning | 2 |
|----------|---------------------------------------|----|
| 31404316 | Differential and Manual Transmissions | 3 |
| 31404327 | Auto Electrical Systems 6 | 2 |
| 31404329 | Auto Engine Performance 1 | 3 |
| 31801360 | Workplace Fundamentals | 1 |
| 31801361 | Interpersonal Skills | 1 |
| | | 12 |

Term 4

| 31404334 | Automatic Transmissions | 5 |
|----------|---------------------------|----|
| 31404333 | Auto Engine Performance 2 | 2 |
| 31404385 | Auto Engine Performance 3 | 5 |
| | | 12 |

TOTAL 48

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

AUTO AIR CONDITIONING...provides the learner with a thorough knowledge of the operation, diagnosis, and repair procedures for automotive air conditioning systems. The learner will perform recovery, evacuation and recharge tasks, system diagnosis, and will have the opportunity to become EPA Section 609 Certified. PREREQUISITE: 31404301 Auto Orientation & Safety and COREQUISITE: 31404303 Auto Mech Hand & Torque Tools

AUTO BASIC ELECTRICAL 5...prepares the learner to diagnose and repair computer-controlled circuits. Learners will diagnose automotive networks, computerized body controls, and supplemental restraint systems. COREQUISITE: 31404323 Auto Wiring Mechanics 4

AUTO BODY APPLICATIONS FOR MECHANICS...introduces the mechanic student to the common auto collision repair topics experienced in a maintenance shop. Concepts include adhesives, window regulators, panel scratch repair and polishing, plastic repair, and panel alignment.

AUTO BRAKES...provides the learner with a thorough knowledge of automotive mechanical and hydraulic brake systems. The learner will diagnose, service, and repair automotive brake systems, antilock brake systems, and traction control systems. COREQUISITE: 31404301 Auto Orientation & Safety and 31404303 Auto Mech Hand & Torque Tools

AUTO ELECTRICAL MATH 1...provides the learner with the required math skills for automotive electrical troubleshooting. Students will use decimals, symbols, and formulas to quantify electricity.

AUTO ELECTRICAL SYSTEMS 6...prepares the learner to diagnose security, comfort, and convenience systems. Operation of collision avoidance and other driver aids will be covered. PREREQUISITE: 31404326 Auto Basic Electrical 5

AUTO ELECTRICITY FUNDAMENTALS 3...prepares the learner to troubleshoot inoperative electrical circuits using various tools and methods. Learners will learn to quantify electrical behavior in simple circuits using a digital volt ohm meter. COREQUISITE: 31404310 Auto Intro to Electricity 2

AUTO ENGINE PERFORMANCE 1...introduces the learner to the fundamentals of engine operation and lab scopes. Prepares the learner to diagnose and repair gasoline engine fuel, ignition, and performance concerns. COREQUISITE: 31404327 Auto Electrical Systems 6

AUTO ENGINE PERFORMANCE 2...prepares the learner to diagnose and repair basic computerized engine control feedback systems using specialized diagnostic equipment. PREREQUISITE: 31404329 Auto Engine Performance 1

AUTO ENGINE PERFORMANCE 3...prepares the learner to diagnose and repair advanced powertrain systems using specialized diagnostic equipment. Engine performance concerns on turbocharged, non-turbocharged, diesel, and hybrid engines will be addressed. COREQUISITE: 31404333 Auto Engine Performance 2

AUTO ENGINE REPAIR...provides the learner with a thorough knowledge of automotive engine construction and operation. The learner will disassemble an engine, measure internal clearances, perform engine mechanical diagnostics, and service cooling systems. PREREQUISITE: 31404301 Auto Orientation & Safety and COREQUISITE: 31404303 Auto Mech Hand & Torque Tools

AUTO INTRODUCTION TO ELECTRICITY 2...introduces the learner to the characteristics and behaviors of electricity and electromagnetism. Prepares the learner to use basic electrical terms, tools, and theory for troubleshooting automotive electrical circuits. COREQUISITE: 31404311 Auto Electrical Math 1

AUTO MECHANICAL HAND AND TORQUE TOOLS...prepares the learner to use automotive hand and torque tools.

AUTO MECHANICAL MATH AND MEASURING...prepares the learner with the required math skills needed for the automotive servicing industry. The learner will perform a variety of measurements using U.S. Standard and metric measuring instruments, and will be provided the opportunity to achieve the NC3 Certifications of Completion. Training on conversions, units of measure, and calculations will also be provided.

AUTO ORIENTATION AND SAFETY...prepares the learner to work effectively and efficiently in the automotive lab. Shop safety and proper procedures are emphasized.

AUTO SERVICING WELDING...provides the learner with a thorough knowledge of welding practices used in the automotive industry. Learners will perform a variety of welds using OAW, SMAW, GMAW, and GTAW. AUTO SUSPENSION AND STEERING...provides the learner with a thorough knowledge of automotive steering systems, suspension systems, wheel and tire service, and wheel alignment. The learner will diagnose and repair front and rear suspension systems, perform wheel and tire service, diagnose and repair vehicle steering parts and components, and perform front and four-wheel alignments.COREQUISITE: 31404301 Auto Orientation & Safety and 31404303 Auto Mech Hand & Torque Tools

AUTO WIRING MECHANICS 4...prepares the learner to interpret automotive wiring diagrams and troubleshoot automotive circuits. Learners will utilize wiring diagrams to diagnose inoperative lighting, starting, and charging systems. COREQUISITE: 31404313 Auto Electricity Fundamentals 3

AUTOMATIC TRANSMISSIONS...prepares the learner to develop skills in the operation and servicing of automatic transmissions. The learner will disassemble, inspect, repair and reassemble various automatic transmissions and learn proper procedures for diagnosis of these assemblies. PREREQUISITE: 31404301 Auto Orientation & Safety and COREQUISITE: 31404303 Auto Mech Hand & Torque Tools

DIFFERENTIALS AND MANUAL TRANSMISSIONS...prepares the learner with a thorough knowledge of the operation, diagnosis, and repair procedures of differential assemblies and manual transmissions. The learner will disassemble, inspect and reassemble differentials and various manual transmissions. PREREQUISITE: 31404301 Auto Orientation & Safety and COREQUISITE: 31404303 Auto Mech Hand & Torque Tools

INTERPERSONAL SKILLS...prepares the learner to model interpersonal skills, ethics and diversity.

WORKPLACE FUNDAMENTALS...prepares the learner to incorporate problem solving, creativity and communication skills into daily workplace habits.



BROADCAST CAPTIONING

Program Number 10-170-1

Associate Degree in Applied Science • Varies

ABOUT THE PROGRAM

You've read the scrolling captions for the hearing-impaired on your TV screen. The person providing instantaneous text of programs is trained in realtime transcription techniques and technology. These skills can also be used to provide CART (Communication Access Realtime Translation) for hearing-impaired students in educational as well as public settings. If you're an excellent listener, have strong language and communication skills, are committed to accuracy and able to work on deadline, a career in broadcast captioning may be a perfect fit for your talents.

PROGRAM OUTCOMES

- Utilize machine shorthand with a computer-aided transcription system to write the spoken word and produce a transcript.
- Perform as a realtime reporter with skills to obtain certification.
- Demonstrate knowledge of legal and medical concepts and terminology.
- Apply the NCRA Code of Professional Ethics and Certification Standards.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete Notification of Laptop/Steno Rental Equipment form.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Students are required to rent a stenograph machine and laptop computer through the rental program available at LTC. LTC's Broadcast Captioning program follows the National Court Reporters Association (NCRA) standards. Upon completion of this curriculum, the student will have dual degrees in Court Reporting and Broadcast Captioning.

GRADUATION REQUIREMENT

Three 5-minute timings must be passed in each of the following categories with a minimum of 95 percent accuracy:

- Two-voice testimony @ 225 wpm
- Jury charge @ 200 wpm
- Literary @ 180 wpm
- · Broadcast Captioning Internship of 40 hours must be taken within 18 months of graduation.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | Class Title | Credit(s) |
|----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 10170106 10170804 10170144 10801195 10809198 | Term 1 Realtime Reporting 1 Realtime Reporting 1 Lab Realtime Reporting Orientation Written Communication Introduction to Psychology | 5 1 3 3 |
| 10170184 | English for Realtime Reporters | 14 |
| 10170105 | Term 2 Realtime Reporting 2 | 5 |

| 10170105 | Realtime Reporting 2 | 5 |
|----------|-------------------------------------|----|
| 10170805 | Realtime Reporting 2 Lab | 1 |
| 10170159 | Realtime Reporting Technology | 2 |
| 10801196 | Oral/Interpersonal Communication OR | 3 |
| | 10801198 Speech | |
| 10170160 | Legal Terminology | 1 |
| | | 12 |

Term 3 (Summer)

| 10170108 | Realtime Reporting Speed Development | 2 |
|----------|--------------------------------------------|---|
| 10170104 | Broadcast Captioning Research Methods | 1 |
| 10809122 | Introduction to American Government OR | 3 |
| | 10809172 Introduction to Diversity Studies | 3 |
| 10170126 | Skillbuilding 1 (optional) (2 cr) | |
| 10170127 | Skillbuilding 2 (optional) (2 cr) | |
| 10170136 | Skillbuilding 3 (optional) (2 cr) | |
| | | 6 |
| | | |

Torm 4

| 10170109 | Literary 1 - Advanced | 2 |
|----------|----------------------------------------|----|
| 10170128 | Jury Charge 1 - Advanced | 2 |
| 10170156 | Testimony 1 - Advanced | 3 |
| 10804123 | Math with Business Applications OR | 3 |
| | 10804107 College Math OR 10806112 | |
| | Principles of Sustainability | |
| 10170161 | Realtime Reporting Technology Advanced | 2 |
| | | 12 |

Term 5

| 10170145 | Court Reporting Internship | 1 |
|----------|---------------------------------|----|
| 10170111 | Literary 2 - Advanced | 2 |
| 10170129 | Jury Charge 2 - Advanced | 2 |
| 10170157 | Testimony 2 - Advanced | 3 |
| 10170146 | Four Voice | 1 |
| 10170141 | Court Reporting Procedures | 2 |
| 10170101 | Captioning/CART | 3 |
| 10170171 | Medical Reporting & Terminology | 2 |
| | | 16 |

Term 6

| 10170143 Internship in Broadcast Captio | ning/CART |
|-----------------------------------------|-----------|
|-----------------------------------------|-----------|

TOTAL 61

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

BROADCAST CAPTIONING RESEARCH METHODS...prepares the learner to prepare (research) prior to broadcast, conduct research in preparation for broadcasting international news, national news, local news, weather reports, sporting events, writing geographical terms, utilize culturally diverse terminology, and create job dictionaries.

CAPTIONING/CART...prepares the student to write Realtime dictation at 180 wpm, analyze deaf culture, analyze captioning/CART procedures, prepare for broadcast production, configure CAT software for captioning, set up captioning hardware, operate the CAT system in captioning mode, utilize proper technology to control caption spacing and placement, write a news broadcast for 30 minutes non-stop, configure CART software, and analyze the contents of the CART provider's manual. PREREQUISITE: 10170156 Testimony 1 - Adv and 10170109 Literary 1 - Adv and COREQUISITE: 10170157 Testimony 2 – Adv

COURT REPORTING INTERNSHIP...prepares the student to write machine shorthand verbatim for a minimum of 40 hours of actual writing time in the courtroom, classroom, and deposition environment under the supervision of a working reporter; prepare a 40-page transcript, and summarize the internship experience in a narrative report. PREREQ: 10106108or10170108 Realtime Rptg Speed Dev, 10106128or10170128 Jury Chrg 1-Adv, 10106109or10170109 Lit 1-Adv, 10106156or10170156 Test 1-Adv & COREQ: 10106129or10170129 Jury Chrg 2-Adv, 101061110r10170111 Lit 2-Adv & 10106157or10170157 Test 2-Adv

COURT REPORTING PROCEDURES...introduces the student to reporting procedures for which reporters are responsible in the courtroom, deposition, and real-time reporting environments, including preparing salable transcripts, researching legal citations, and developing professional development plans. PREREQUISITE: 10170156 Testimony 1 Adv

ENGLISH FOR REALTIME REPORTERS...enhances the student's ability to use proper English grammar, spelling, punctuation, capitalization, and vocabulary techniques in the transcription of the spoken word.

FOUR VOICE...prepares the student to write four-voice testimony from material dictated at a minimum speed of 160 wpm for 5 minutes with a minimum of 95 percent accuracy. PREREQUISITE: 10170156 Testimony 1 – Advanced

INTERNSHIP IN BROADCAST CAPTIONING/CART...prepares the learner to caption live broadcast, use television broadcast terminology, describe television broadcast operations, and provide CART services to a hearing-impaired person. Students must be writing at 180 words per minute literary prior to enrolling in this course. PREREQ: 10106108 or 10170108 Realtime Rptg Speed Dev, 10106128 or 10170128 Jury Chrg 1-Adv, 10106156 or 10170156 Test 1-Adv & COREQ: 10106129 or 10170129 Jury Chrg 2-Adv, 10106111 or 10170111 Lit 2-Adv & 10106157 or 10170157 Test 2-Adv

INTRODUCTION TO AMERICAN GOVERNMENT...introduces American political processes and institutions. It focuses on rights and responsibilities of citizens and the process of participatory democracy. Learners examine the complexity of the separation of powers and checks and balances. It explores the role of the media, interest groups, political parties and public opinion in the political process. It also explores the role of state and national government in our federal system. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

JURY CHARGE 1 - ADVANCED...prepares the student to write jury charge material at 160 words per minute for 3 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170121 Jury Charge 1 - Beginner or 10106121 Jury Charge 1 - Beginner or CONDITION: Minimum of 130 WPM met

JURY CHARGE 2 - ADVANCED...prepares the learner to write jury charge material at 200 words per minute for 5 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170122 Jury Charge 2 - Beginner or 10106122 Jury Charge 2 - Beginner or CONDITION: Minimum of 180 WPM met

LEGAL TERMINOLOGY...provides the student with the ability to spell, pronounce, and define legal terms.

LITERARY 1 - ADVANCED...prepares the learner to write literary material at 150 words per minute for 3 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy, write and read back current events dictation, and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170113 Literary 1 - Beginner or CONDITION: Minimum of 130 WPM met

LITERARY 2- ADVANCED...prepares the learner to write literary material at 180 words per minute for 5 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy, write and read back current events dictation, and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170114 Literary 2 -Beginner or 10106114 Literary 2-Beginner or CONDITION: Minimum of 160 WPM met MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equiv

MEDICAL REPORTING/TERMINOLOGY...prepares the student to write medical terminology in machine shorthand using appropriate medical terminology from material dictated at a minimum speed of 150 wpm for 5 minutes with a minimum of 95 percent accuracy. The student will research medical information, prepare salable transcripts, and submit timings. COREQUISITE: 10170156 Testimony 1-Adv or 10106156 Testimony 1 – Adv

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

REALTIME REPORTING 1...prepares learners to use machine shorthand to write consonants, vowels, numbers, multi-syllabic words, multi-consonant words, punctuation and special symbols, short forms & phases, words in their singular and plural forms, and prefixes and suffixes. Concurrent registration in Realtime Reporting 1 Lab is required. CONDITION: 101701 Broadcast Capt or 101702 Court Rep or 101061 Judicial Rep program reqs met

REALTIME REPORTING 1 LAB...prepares the learner to use machine shorthand to write consonants, vowels, numbers, multi-syllabic words, multi-consonant words, punctuation and special symbols, short forms and phrases, words in their singular and plural forms, and prefixes and suffixes. Concurrent registration in Realtime Reporting 1 is required. COREQUISITE: 10170106 Realtime Reporting 1 or 10106104 Realtime Reporting 1 and CONDITION: 101701 Broadcast Captioning or 101702 Court Reporting or 101061 Judicial Reporting program requirement met

REALTIME REPORTING 2...prepares learner to write multi-syllabic words; punctuation and special symbols,short forms and phrases, prefixes and suffixes; numbers, frequently used words and phrases, contractions using the Z-rule, the "Flagged Alphabet,"apply realtime conflict elimination principles,apply realtime theory and write dictation using a realtime theory at a minimum speed of 100 wpm. Concurrent registration in Realtime Reporting 2 Lab is required. PREREQUISITES: 10170106 Realtime Reporting 1 or 10106104Realtime Reporting 1 and 10170804 Realtime Reporting 1 Lab or 10106804 Realtime Reporting 1 Lab

REALTIME REPORTING 2 LAB...expands the learner's ability to write multi-syllabic words; punctuation and special symbols, short forms and phrases, prefixes and suffixes; numbers, frequently used words and phrases, contractions using the Z-rule, the "Flagged Alphabet," apply realtime conflict elimination principles, apply realtime theory and write dictation using a realtime theory. Concurrent registration in Realtime Reporting 2 is required. COREQUISITES: 10170105 Realtime Reporting 2 or 10106105 Realtime Reporting 2

REALTIME REPORTING ORIENTATION...prepares the student to use computerassisted, real-time transcription software, Windows, e-mail, a steno machine, and a laptop in writing machine shorthand in court reporting and to complete and submit required coursework. CONDITION: 101701 Broadcast Captioning or 101702 Court Reporting program reqs met

REALTIME REPORTING SPEED DEVELOPMENT...further develops skills acquired in Realtime Reporting 2 on literary and testimony material beginning at 100 wpm. Scheduled during the summer term, students must pass two, 3-minute timings at a minimum speed of 110 words per minute. PREREQUISITE: 10170105 Realtime Reporting 2 or 10106105 Realtime Reporting 2 and 10170805 Realtime Reporting Lab 2

REALTIME REPORTING TECHNOLOGY...prepares the student to use CAT (Computer-Assisted Transcription) and real-time software; build personal dictionaries; and read, translate, and edit transcripts. Students are introduced to real-time translation procedures in court, depositions, captioning, and educational environments.

REALTIME REPORTING TECHNOLOGY ADVANCED...prepares the learner to expand their knowledge of computer-assisted transcription and realtime software, dictionary management, specialized editing functions, transcript preparation, auto-included block files, and specialized macros for Steno-related tasks. PREREQUISITE: 10170159 Realtime Reporting Technology

TESTIMONY 1 - ADVANCED...prepares the learner to write 2-voice testimony material at 160 words per minute for 3 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170153 Testimony 1 - Beginner or 10106153 Testimony 1 - Beginner or CONDITION: or Minimum of 130 WPM met

TESTIMONY 2 - ADVANCED...prepares the learner to write 2-voice testimony material at 225 words per minute for 5 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170154 Testimony 2 - Beginner or 10106154 Testimony 2 - Beginner or CONDITION: Minimum of 180 WPM met

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



BUSINESS MANAGEMENT

Program Number 10-102-3 Associate Degree in Applied Science • Four Terms

Class Title

Catalog No.

1010

1080

ABOUT THE PROGRAM

Business managers are found in every sector of the economy in nearly all work settings from manufacturing to health care. The Business Management program provides graduates with the knowledge and skills for positions such as an entry-level manager, office manager, shift coordinator, or team leader, or graduates may start their own business. The successful business manager oversees day-to-day activities and leads the team or organization to the next level of performance. Managers plan, organize, direct, and control the tasks that carry out the work of the business or nonprofit organization. If you set goals for yourself and strive to accomplish them, prefer working with others rather than alone, enjoy serving as a leader even if it means more work, and want to improve your skills and promotion potential, then a career in business management may be a good choice for you.

PROGRAM OUTCOMES

- · Plan the operation of a business across functional areas.
- Organize resources to achieve the goals of the organization.
- · Direct individuals and/or processes to meet organizational goals.
- · Control business processes.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

purposes.

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

RELATED PROGRAMS

• Entrepreneurship & Business (19-145-2)

SPECIAL NOTE

Students are encouraged to complete Excel - Level 1 prior to Accounting 1.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| | Term 1 | |
|----------|-----------------------------------|----|
| 10103121 | Excel - Level I | 1 |
| 10103191 | Word - Level I | 1 |
| 10196189 | Team Building and Problem Solving | 3 |
| 10102110 | Introduction to Business | 3 |
| 10801195 | Written Communication | 3 |
| 10804189 | Introductory Statistics | 3 |
| | | 14 |
| | | |
| | Term 2 | |
| 10101111 | Accounting 1 | 4 |
| 10105128 | Personal Branding | 2 |
| 10196193 | Human Resource Management | 3 |

| | | 15 |
|-------|---------------------------------------|----|
| | Communication | |
| 01198 | Speech OR 10801196 Oral/Interpersonal | 3 |
| 04102 | Marketing, Principles of | 3 |
| 96193 | Human Resource Management | 3 |
| J5128 | Personal Branding | 2 |

Term 3

| 10101107 | Managerial Accounting | 4 |
|----------|-------------------------------|----|
| 10182102 | Service Operations Management | 3 |
| 10182108 | Purchasing | 3 |
| 10809195 | Economics | 3 |
| 10809198 | Introduction to Psychology | 3 |
| | | 16 |

Term 4

| 10102107 | Internship - Business Management OR 10138101 Introduction to Global Business | 3 |
|----------|---------------------------------------------------------------------------------|----|
| 10102123 | Business Management-Capstone | 3 |
| 10196188 | Project Management | 3 |
| 10102160 | Business Law 1 | 3 |
| | Introduction to Diversity Studies | 3 |
| | ······, _ ······ | 15 |

TOTAL 60

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ACCOUNTING 1...provides the learner with the skills to understand and apply accounting principles and procedures useful in any business. Includes the accounting cycle for a service enterprise and a merchandising enterprise, chart of accounts, special journals, ledgers, accruals and deferrals, inventories, and internal controls.

BUSINESS LAW 1...provides the learner with the skills to summarize the American legal system; diagram the state/federal court systems; evaluate dispute resolution methods; sequence the civil litigation process; summarize the administrative agencies; differentiate civil and criminal law; apply theories of negligence, intentional tort, and product liability; summarize elements of a contract; assess the validity of a contract; assess third-party rights and available remedies; and summarize Article II of the UCC.

BUSINESS MANAGEMENT-CAPSTONE...assesses the role of business, its internal structure and its relationship to the external environment. Each learner analyzes the functions of business planning, information systems, operations management, information technology, marketing and how they interact and drive business activities. Students recognize what they have learned throughout the program. They assemble a portfolio using research, samples of their best work, and reflection papers to analyze their attainment of college core abilities. PREREQUISITES: 10102110 Intro to Business, 10104102 Principles of Marketing, 10196193 Human Resource Management and COREQUISITE: 10101111 Accounting 1

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

HUMAN RESOURCE MANAGEMENT...applies the skills/tools necessary to effectively value and apply employees' abilities and needs to organization goals. Learners will demonstrate the application of the supervisor's role in contemporary human resources management, impacts of EEOC, writing job descriptions, recruitment, selection, conducting job interviews, orientation, developing policies/procedures, training, performance management, employee counseling/development, and effective use of compensation and benefit strategies.

INTERNSHIP-BUSINESS MANAGEMENT...requires students to complete 216 hours of performing work in a business/industrial service setting related to their Business Management program objectives. Students are responsible for seeking and obtaining the internship position. Course requirements include maintaining a log of work activities, identifying and receiving approval from the job supervisor and instructor, and completing a work-related project. Students may meet periodically at LTC. PREREQUISITES: 10102110 Intro to Business, 10104102 Principles of Management, 10196193 Human Resource Management and COREQUISITES: 10101111 Accounting 1 and 10102123 Business Management Capstone

INTRODUCTION TO BUSINESS...provides an introduction to the world of business from both the organizational and managerial viewpoint. It examines areas of business including the business environment, business formation, planning, operations, accounting, marketing, human resource management, and building effective teams.

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

MANAGERIAL ACCOUNTING...prepares the learner to analyze financial performance; prepare and evaluate budgets; and compare and manage capital. (Accounting students will require the Accounting 1 prerequisite requirement for this course.) PREREQUISITE: 10101111 Accounting 1

PERSONAL BRANDING...focuses on the importance of developing a strong brand identity for yourself as a professional. As a prospective employee, you are constantly selling yourself from how you talk, walk, dress, your facial expressions, and your body language; people are always forming impressions of you. In this course, you will develop a professional resume, cover letter, practice interview skills, and learn the role of social media in career development.

PRINCIPLES OF MARKETING...introduces the student to the consumer decision process model, the bases used to segment a market, basic concepts about goods, services, and ideas, the nature of supply chain and distribution, integrated marketing communications, and the stages of the product life cycle and their impact on the marketing mix.

PROJECT MANAGEMENT...introduces the learner to explore the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain-related functions. This course addresses three main topics: aligning resources with the strategic plan, configuring and integrating operating processes to support the strategic plan, and implementing change.

PURCHASING...introduces the participant to basic purchasing, quality specifications, inventory control, supplier selection, price aspects, research and measurement, negotiation, and global purchasing. This course is exciting for anyone interested in working in a challenging and rewarding purchasing and supply chain management career.

SERVICE OPERATIONS MANAGEMENT...introduces the student to the basic coverage of the concepts and current issues in service operation management. Topics include the value equation in operations management; understanding services; building the service system; operating the service system; enterprise resource management (ERP) and supply chain management concepts in the service sector.

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

TEAMBUILDING AND PROBLEM SOLVING...applies the skills and tools necessary to facilitate problem solving in a team environment. Each learner will demonstrate the application of the benefits and challenges of group work, necessary roles in a team, stages of team development, different approaches to problem solving, consensus, a systematic process of problem definition, data acquisition, analysis, developing alternative solutions, solution implementation, and evaluation.

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



PART-TIME • ONLINE BUSINESS MANAGEMENT

Program Number 10-102-3 Associate Degree in Applied Science

| | Catalog No. | Class Title | dit(s) |
|-------------------------|----------------------|----------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| nt ch r, ger | 10102110 10196189 | Term 1 (Fall) Introduction to Business Team Building & Problem Solving | 3 3 6 |
| xt s id ess | 10104102 10103191 | Term 2 (Spring) Written Communication Principles of Marketing Word - Level 1 (Q1) Excel - Level 1 (Q2) | 3 3 1 1 8 |
| | 10196193 | Term 3 (Fall) Introductory Statistics Human Resource Management Oral/Interpersonal Communication OR Speech 10801198 | 3 3 3 9 |
| ltc. | 10101111 10105128 | Term 4 (Spring) Accounting 1 Personal Branding | 4 2 6 |
| our | | Term 5 (Fall) Managerial Accounting Introduction to Psychology | 4 3 7 |
| ripts, ed and for | | Term 6 (Spring) Service Operations Management Economics Purchasing | 3 3 3 9 |
| i4. r | 10102160 | Term 7 (Fall) Project Managament Business Law 1 Introduction to Diversity Studies | 3 3 3 9 |
| ity 1. Visit alk | | Term 8 (Spring) Business Management-Capstone Internship-Business Management | 3 3 6 |
| air. | | TOTAL | 60 |
| | | ARI | |
| Currie | culum and progra | m acceptance requirements are subject to | |

change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024

rates and are subject to change prior to the start of the academic year.

2023-24

ABOUT THE PROGRAM

Business managers are found in every sector of the economy in nearly all work settings from manufacturing to health care. The Business Management program provides graduates with the knowledge and skills for positions such as an entry-level manager, office manager, shift coordinator, or team leader, or graduates may start their own business. The successful business manager oversees day-to-day activities and leads the team or organization to the next level of performance. Managers plan, organize, direct, and control the tasks that carry out the work of the business or nonprofit organization. If you set goals for yourself and strive to accomplish them, prefer working with others rather than alone, enjoy serving as a leader even if it means more work, and want to improve your skills and promotion potential, then a career in business management may be a good choice for you.

PROGRAM OUTCOMES

- Plan the operation of a business across functional areas.
- Organize resources to achieve the goals of the organization.
- Direct individuals and/or processes to meet organizational goals.
- · Control business processes.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc. edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

 Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

RELATED PROGRAMS

• Entrepreneurship & Business (19-145-2)

SPECIAL NOTE

Students are encouraged to complete Excel - Level 1 prior to Accounting 1.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

ACCOUNTING 1...provides the learner with the skills to understand and apply accounting principles and procedures useful in any business. Includes the accounting cycle for a service enterprise and a merchandising enterprise, chart of accounts, special journals, ledgers, accruals and deferrals, inventories, and internal controls.

BUSINESS LAW 1...provides the learner with the skills to summarize the American legal system; diagram the state/federal court systems; evaluate dispute resolution methods; sequence the civil litigation process; summarize the administrative agencies; differentiatecivil and criminal law; apply theories of negligence, intentional tort, and product liability; summarize elements of a contract; assess third-party rights and available remedies; and summarize Article II of the UCC.

BUSINESS MANAGEMENT-CAPSTONE...assesses the role of business, its internal structure and its relationship to the external environment. Each learner analyzes the functions of business planning, information systems, operations management, information technology, marketing and how they interact and drive business activities. Students recognize what they have learned throughout the program. They assemble a portfolio using research, samples of their best work, and reflection papers to analyze their attainment of college core abilities. PREREQUISITES: 10102110 Intro to Business, 10104102 Principles of Marketing, 10196193 Human Resource Management and COREQUISITE: 10101111 Accounting 1

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

HUMAN RESOURCE MANAGEMENT...applies the skills/tools necessary to effectively value and apply employees' abilities and needs to organization goals. Learners will demonstrate the application of the supervisor's role in contemporary human resources management, impacts of EEOC, writing job descriptions, recruitment, selection, conducting job interviews, orientation, developing policies/procedures, training, performance management, employee counseling/development, and effective use of compensation and benefit strategies.

INTERNSHIP-BUSINESS MANAGEMENT...requires students to complete 216 hours of performing work in a business/industrial service setting related to their Business Management program objectives. Students are responsible for seeking and obtaining the internship position. Course requirements include maintaining a log of work activities, identifying and receiving approval from the job supervisor and instructor, and completing a work-related project. Students may meet periodically at LTC. PREREQUISITES: 10102110 Intro to Business, 10104102 Principles of Management, 10196193 Human Resource Management and COREQUISITES: 10101111 Accounting 1 and 10102123 Business Management Capstone

INTRODUCTION TO BUSINESS...provides an introduction to the world of business from both the organizational and managerial viewpoint. It examines areas of business including the business environment, business formation, planning, operations, accounting, marketing, human resource management, and building effective teams.

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent MANAGERIAL ACCOUNTING...prepares the learner to analyze financial performance; prepare and evaluate budgets; and compare and manage capital. (Accounting students will require the Accounting 1 prerequisite requirement for this course.) PREREQUISITE: 10101111 Accounting 1

PERSONAL BRANDING...focuses on the importance of developing a strong brand identity for yourself as a professional. As a prospective employee, you are constantly selling yourself from how you talk, walk, dress, your facial expressions, and your body language; people are always forming impressions of you. In this course, you will develop a professional resume, cover letter, practice interview skills, and learn the role of social media in career development.

PRINCIPLES OF MARKETING...introduces the student to the consumer decision process model, the bases used to segment a market, basic concepts about goods, services, and ideas, the nature of supply chain and distribution, integrated marketing communications, and the stages of the product life cycle and their impact on the marketing mix.

PROJECT MANAGEMENT...introduces the learner to explore the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain-related functions. This course addresses three main topics: aligning resources with the strategic plan, configuring and integrating operating processes to support the strategic plan, and implementing change.

PURCHASING...introduces the participant to basic purchasing, quality specifications, inventory control, supplier selection, price aspects, research and measurement, negotiation, and global purchasing. This course is exciting for anyone interested in working in a challenging and rewarding purchasing and supply chain management career.

SERVICE OPERATIONS MANAGEMENT...introduces the student to the basic coverage of the concepts and current issues in service operation management. Topics include the value equation in operations management; understanding services; building the service system; operating the service system; enterprise resource management (ERP) and supply chain management concepts in the service sector.

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

TEAMBUILDING AND PROBLEM SOLVING...applies the skills and tools necessary to facilitate problem solving in a team environment. Each learner will demonstrate the application of the benefits and challenges of group work, necessary roles in a team, stages of team development, different approaches to problem solving, consensus, a systematic process of problem definition, data acquisition, analysis, developing alternative solutions, solution implementation, and evaluation.

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



Career certificates allow you to study а concentrated area-with just a few courses and a limited time commitment-that can prepare you for a brand new career or give you the skills you need to advance in your current career. OnTarget certificates cover a wide range of careers so you can find the area of study that's right for you, whether this will be your first college experience or you already have a degree. Each certificate is streamlined to give you laser-focused skills that open up new job possibilities if you are looking to quickly enter a new career, want to advance your current technical skills, or are looking for an edge in addition to another college degree. Many of the certificate classes you take apply to a Lakeshore degree program.

ADMISSION STEPS

Submit online application

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuitionand-fees for details.

TECHINCAL STANDARDS

Technical standards are the basic duties that a student must be able to perform with or without reasonable accommodations. At the postsecondary level, students must meet these requirements, and they cannot be modified.

NOTE

Program start dates vary; check with your program counselor for details. Curriculum and program acceptance requirements are subject to change.

ACCOUNTING

19-101-2 Tax Preparer (10 credits)...this certificate will give job seekers an expertise in tax preparation procedures and provide related accounting skills which will make them more employable. 10101111 Accounting 1 - 4cr 10101128 Income Tax 2 - 2cr 10101122 Income Tax - 3cr 10101129 Applied Tax - 1cr

AGRICULTURE

19-006-7 Ag Ed Plus (4 credits)...this certificate provides continuing education focusing on farm and business management for farm operators, agriculturistsm, and others seeking to stay current and to advance their knowledge and skills. These four courses are also part of the Wisconsin Farm Service Agency's agreement with the WTCS for continuting education of loan participants. All classes are available in person and online. 30091320 Ag Ed Plus-Livestock Management - 1 cr 30006312 Ag Ed Plus-Business Management - 1 cr 30006310 Ag Ed Plus-Financial Management - 1 cr 30093322 Ag Ed Plus-Crop & Soil Management - 1 cr

19-006-9 Ag Ed Plus - Management (3 credits)...brings the opportunity for agriculturists, farm operators, and others to continue their education in business management topics. It focuses on management areas of marketing and sales, farm economics, legal considerations, estate planning, livestock management, human resource management, and record keeping software-all of which are critical concepts for making informed management decisions. All classes are available in person and online.

30006315 Ag Ed Plus-Agricultural Sales - 1cr 30006340 Ag Ed Plus-Legal Considerations - 1cr

19-006-8 Ag Ed Plus - Production (6 credits)...this certificate brings the opportunity for agriculturists, farm operators, and others to continue their education in the production topics of soils/agronomy, animal breeding, livestock nutrition, and the exploration of new technologies - all of which continue to be just-in-time concepts for making informed production and management decisions. All classes are available in person and online. 30093316 Ag Ed Plus-Soil Science - 1cr 30091344 Ag Ed Plus-Livestock Nutrition - 1cr

 30006334
 Ag Ed Plus-Herd Record Keeping - 1cr
 30091342
 Ag Ed Plus-Adv Livestock Manager - 1cr

 30006328
 Ag Ed Plus Precision Ag Technologies - 1cr
 30091324
 Ag Ed Plus Animal Breeding Concepts - 1cr

19-006-5 Dairy Worker Training (9 credits)...this certificate teaches the learner the basics of cow reproduction, reproductive system, identifying cows in heat, sync protocols, and the basics of A.I. The learner becomes proficient in caring for fresh and sick cows including a step-by-step approach for examinations of freshpen cows, selecting cows for examination based on behavior, calving history, and diagnostic tests. Calf care covers newborns, developing rumen, best practices colostrum handling, processing newborns, and disease prevention. 10091102 Dairy Cattle Management - 3cr 10091108 Quality Milk Production - 3cr

ADVANCED MANUFACTURING

19-606-1 3-D Design and Printing (3 credits)...an introduction to 3D modeling and printing. Utilizing SolidWorks, you will create 3D parts which can later be printed on our various 3D printers. Learn how to create 3D parametric models, the terminology and processes related to 3D printing, set up a 3D printer, troubleshoot the system and prepare the model for printing. You will be working in LTC's state-of-the-art computer and 3D printing lab where you will have access to the latest technology. This is inteded for anyone interested in learning about 3D printing and designing using SolidWorks. Both courses are associate degree level and counts toward an associate degree in Mechanical Design & Engineering Technology.

10606108 SolidWorks1-Parametric Modeling - 2cr 10606102 Product Design & Rapid Prototyping - 1cr

19-457-4 Advanced Fabrication (6 credits)...the learner will design and produce steel fabrications from working drawings. They will be exposed to the many fabrication techniques and equipment that are used in industry. By developing measurement and layout skills, the learner will produce steel fabrications by the use of manual and CNC steel processing equipment (sheer, CNC Plasma and Fiber Laser) as well as Sheet Metal forming equipment. Projects will be completed using welding and finishing techniques.

31457331 Fabrication 1 - 2cr 31457333 Fabrication 2 - 2cr 31442309 Weld Print 3 for Fabricators - 1cr 31442307 Welding Measurement 2 - 1cr

19-442-3 Advanced Pipe Welding (4 credits)...provides an opportunity for welders to grow in the pipe welding field. In this certificate series the learner will weld pipe in the 1G, 2G, 5G, and 6G positions while using the SMAW, FCAW, and GTAW welding processes. The learner will create pipe fabrications that are used in the industry. The learner will have the opportunity to gain state certification in the 5G position using the SMAW, GTAW/ FCAW, GTAW/SMAW welding process.

31442301 Adv Pipe Welding 1 - 1cr 31442303 Adv Pipe Welding 2 - 1cr 31442305 Adv Pipe Welding 3 - 1cr 31442325 Adv Pipe Welding Processes - 1cr

| 19-404-3 Automotive Electrical Certific | cate (11 credits)provides the basic electrical-relation | ted courses of the Automotive Maintenance Technician program |
|----------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| and prepares students for entry-level positions in | primary electrical skills of an automotive technician. In | addition, these courses provide the opportunity for automotive |
| | o 1 1 | te students can choose to continue their education by pursuing |
| the Automotive Mechanical Certificate or the two- | year Automotive Maintenance Technician Technical Di | ploma. |
| 31404301 Auto Orientation and Safety - 1cr | 31404303 Auto Servicing Hand & Torque Tools - 1cr | 31404311 Auto Electrical Math 1 - 1cr |
| 31404310 Auto Introduction to Electricity 2 - 1cr | 31404313 Auto Electricity Fundamentals 3 - 2cr | 31404323 Auto Wiring Mechanics 4 - 2cr |
| 31404326 Auto Basic Electrical 5 - 3cr | | |
| 19-404-2 Automotive Mechanical Cert | ificate (14 credits)provides the basic mechanie | cal-related courses of the Automotive Maintenance Technician |
| program and prepares students for entry-level pos | itions. These courses provide the opportunity for workin | ng adults to enhance their auto mechanical skills and knowledge. Certificate or the two-year Automotive Maintenance Technician |
| opon completion, students can choose to continu | e their education by pursuing the Automotive Electrical | Octimode of the two-year Automotive Maintenance rechnician |

Technical Diploma.31404301 Auto Orientation and Safety - 1cr31404302 Auto Brakes - 3cr31404312 Auto Mechanical Math & Measuring - 1cr31404312 Auto Mechanical Math & Measuring - 1cr31404312 Auto Mechanical Math & Measuring - 1cr

31404376 Auto Engine Repair - 4cr

LAKESHORE

19-405-2 Automotive Refinishing Certificate (8 credits)...automotive refinishing is a highly in-demand skill within the automotive repair industry. Start your career path as a professional Automotive Refinisher at LTC. In the certificate classes, you will learn the steps and develop the skills to paint vehicles and related parts from start to finish. Automotive refinishers generally earn the highest wages when compared with other jobs in the automotive repair industry.

31405340 Introduction to Auto Refinishing - 1cr 31405367 Auto Refinishing Surface Preparation - 1cr 31405368 Auto Refinishing Masking - 1cr

31405369 Auto Refinishing Color Application - 1cr 31405370 Auto Refinishing Color Matching - 1cr 31405371 Auto Refinishing Color Blending - 1cr

31405372 Auto Refinishing Multiple Panel - 1cr 31405373 Auto Refinishing Buffing and Polishing - 1cr

19-457-2 Certified Welding Inspector (CWI) Prep (4 credits)...in this 4 credit, 128-hour certificate, the learner will develop advanced weld quality inspection skills through the eyes of a Certified Welding Inspector (CWI). This certificate prepares the learner for the three levels of the CWI Exam, which include Part A - Welding Fundamentals, Part B - Practical inspection of weld samples and Part C - the navigation and interpretation of the AWS D1.1 Structural Steel Code. 31442311 CWI Prep 1 - 1cr 31442313 CWI Prep 2 - 1cr 31442315 CWI Prep 3 - 1cr 31442317 CWI Prep 4 - 1cr

19-457-3 Robotic Weld Technician (4 credits)...in this 128-hour certificate, the learner will understand and demonstrate robotic safety, programming, maintenance and operation. Skills include: editing programs, understanding limits, use of teach pendant for movement and operation. The robotic skills are then used to create and program a welding robot to weld different steel structural shapes to industry standards.

31442327 Robotic Welding 1 - 1cr 31442329 Robotic Welding 2 - 1cr 10620167 Robotics-Teach Pendant/Controls - 1cr

10620169 Robotics-Editing Programs - 1cr

19-606-3 SolidWorks - Mechanical Design (9 credits)...this certificate program is inteded to prepare the learner for a career as a Mechanical Drafter using SolidWorks. With 4 progressing levels of courses, you will learn to create parametric models and assemblies, extract drawings from the models, create a variety of manufactured parts including machined, cast, welded and injection molded. Once all 5 courses are complete, you would be prepared to take the Certified SolidWorks Associate (CSWA) exam. All courses are associate degree level and can count towards progress in LTC's associate degree in Mechanical Design and Engineering Technology.

| 10606100 | Mechanical Drafting Standards/Practices - 1cr | 10606108 | SolidWorks 1-Parametric Modeling - 2cr |
|----------|---------------------------------------------------|----------|---------------------------------------------------|
| 10606109 | SolidWorks 2-Modeling/Details for Designers - 2cr | 10606110 | SolidWorks 3-Working Drawings for Designers - 2cr |
| 10606111 | SolidWorks-Advanced Modeling - 2cr | 10606108 | SolidWorks 1-Parametric Modeling - 2cr |
| 10606109 | SolidWorks 2-Modeling/Details for Designers - 2cr | 10606110 | SolidWorks 3-Working Drawings for Designers - 2cr |
| 10606111 | SolidWorks-Advanced Modeling - 2cr | | |

BUSINESS MANAGEMENT & ADMINISTRATION

19-102-1 Business Essentials (8 credits)...this certificate is designed to introduce the student to fundamental facets of business such as creating a business plan, exploring marketing concepts, and developing Microsoft Office skills. The curriculum for this certificate includes an introduction into the skills and characteristics of the entrepreneur and explores what is necessary to put business skills into successful entrepreneurial efforts.

10103121 Excel - Level 1 - 1cr 10103191 Word - Level 1 - 1cr 10102110 Introduction to Business - 3cr 10104102 Marketing, Principles of - 3cr

19-116-6 Compensation and Benefits (11 credits)...provides the skills necessary to function in a payroll and compensation support position in a human resources department or in an accounting department.

10804123 Math w/Business Applications - 3cr 10116102 Compensation & Benefits Administration - 3cr 10101155 Accounting for Professionals - 3cr 10101106 Payroll Applications - 2cr

19-116-5 Employee Selection and Development (14 credits)...this certificate provides the skills necessary supporting the personnel development, recruitment and retention functions in a human resources department.

10196193 Human Resource Management - 3cr 10116105 Recruitment and Retention of Employees - 3cr 10116103 Training for Organizations - 3cr

10116124 Strategic Performance Management - 3cr 10116168 Organizational Development - 2cr

19-116-4 Human Resources Basics (8 credits)...this certificate provides the learner with the basic skills needed to join the ranks of human resources professionals in a basic, entry level position. It introduces the learner to the human resources environment, the legal issues surrounding HR and the information systems used to support HR functions.

10196193 Human Resource Mngt - 3cr 10116127 HR Technology - 2cr 10116125 Human Resource Employment Law - 3cr

19-623-8 ISO 9001 Internal Auditor (3 credits)...this certificate introduces participants to the current QS/ISO 9001 and ISO 19011 standards. The course is structured to provide a detailed review of the standards, how to document procedures, and how to perform audits. Students will practice preparation for and conducting audits in a local business.

10623193 ISO 9001 Internal Auditor - 3cr

19-182-7 Logistics & Distribution (9 credits)...designed for the employed adult who wishes to gain skills in the principles of logistics and distribution and includes study related to transportation modes, costing, policy, and planning as well as considerations for operating globally. Those already in the fields of supply chain management and quality assurance, as well as those anticipating a career change will benefit from this practical training. 10182131 Supply Chain Management - 3cr 10182122 Logistics - 3cr 10182160 Global Supply Chain Management - 3cr

19-182-5 Materials Management (9 credits)...designed for the working adult who wishes to gain new skills related to the materials and inventory management functions. The material covered will provide the learner with practiced skills in production control, material planning, how ERP systems function, and forecasting for short and long term requirements. These skills will prepare the individual with some business experience for an entry-level position within the material management function, e.g., material analyst, material/resource planner, production planning specialist, or demand planner.

10182131 Supply Chain Management - 3cr 10182102 Service Operations Management - 3cr 10182114 Enterprise Resource Planning - 3cr

19-623-4 Project Management (6 credits)...this certificate program enables individuals to work with people, data, and project management tools, both internally and externally. Project managers are high-profile employees and particularly are viable assets in large corporations. This program is designed to enhance skills for the implementation for developing the activities, leading the teams, and tracking the progress of a specific project. 10196188 Project Management - 3cr 10182108 Purchasing - 3cr

19-182-6 Purchasing (6 credits)...designed for the working adult who wishes to gain new skills related to the purchasing function. The material covered provides the learner with practiced skills in negotiating, basic material management, and purchasing fundamentals. These skills will prepare the individual with some business experience for an entry level position within the purchasing function, e.g., associate buyer, purchasing assistant, purchasing specialist, or purchasing analyst. 10182108 Purchasing - 3cr 10182131 Supply Chain Management - 3cr

19-623-3 Six Sigma for Black Belt (4 credits)...designed for those who wish to take a deeper dive into the concepts of lean manufacturing and six sigma at the black belt level. This course builds upon the learning that took place earning the Lean Six Sigma Certification for Green Belts. It provides added skills in the analysis of process data, building six sigma into design, the management of multiple six sigma projects, and teaching other team members how to use the lean and statistical tool boxes. Techniques for preventing quality problems utilizing the techniques of Design for Six Sigma (DFSS) will also be presented. 10623114 Lean Six Sigma-Black Belt - 4cr

19-623-2 Six Sigma for Green Belt (11 credits)...designed for those who wish to learn about the concepts of lean manufacturing and six sigma at the green belt level. Participants will learn tools and techniques from all aspects of the DMAIC process and participate on or lead a lean six sigma project team within a local business. The highlight of this program is the practical problem solving, team building, and use of continuous improvement tools while participating in the capstone team project.

10623110 Lean Six Sigma-Measure and Analyze - 4cr 10623111 Lean Six Sigma-Improve & Control - 4cr 10623112 Lean Six Sigma-Implementation - 3cr

19-196-8 Supervisory Essentials (9 credits)...designed for those wishing to enhance their interpersonal skills and understanding of leadership, supervision, and team building in their work place.

10196189 Teambuilding and Problem Solving - 3cr 10196107 Principles of Mngt OR 10196190 Leadership Development - 3cr

10196134 Legal Issues for Supervisors OR 10196191 Supervision - 3cr

ENERGY

19-601-1 Residential HVAC Installer (15 credits)...this certificate provides students with the entry level knowledge and skills to gain employment as a residential HVAC installation technician. Students will learn the fundamentals of heating and cooling systems, airflow, sheet metal and pipe fitting work, as well as the steps necessary for performing a residential heating and cooling system installation.

10601201 HVAC Foundations - 1cr 10601202 HVAC Duct Systems - 1cr 10601203 HVAC Piping-Applications - 1cr 10601204 HVAC Electrical-Theory - 1cr 10601205 HVAC Electrical-Applications - 1cr 10601206 HVAC Heating Systems & Sizing - 1cr 10601207 HVAC Residential Furnace Installation - 1cr

10601208 HVAC Residential Furnace Set-up - 1cr 10601209 HVAC Airflow-Principles - 1cr 10601210 HVAC Air Conditioning-Theory - 1cr

10601211 HVAC Air Conditioning-Installation - 1cr 10601212 HVAC Air Conditioning-Startup - 1cr 10601213 HVAC Hydronic Heating Systems-Theory - 1cr 10601214 HVAC Hydronic Heating Systems-Installation - 1cr 10601215 HVAC Mini-Split Systems - 1cr

HEALTH

19-516-2 Eyecare Pre-testing (14 credits)...prepares the learner to neutralize lenses, discern between urgent and non-urgent clinic visits, perform comprehensive case histories, refract, measure eye alignment, and perform basic external slit lamp examinations.

31516320 Basic Optical Concepts - 1cr 31516321 Lens Power and Protection - 1cr 31516322 Compare Multifocal Lenses - 1cr

31516331 Front Desk and Patient Triage - 1cr 31509311 Human Body-Pt 1 - 1cr 31509312 Human Body-Pt 2 - 1cr 31509313 Human Body - Part 3 - 1cr 31516308 Cornea Evaulation - 1cr 31501305 Pharmacology-Pt 1 - 1cr 31501306 Pharmacology-Pt 2 - 1cr 31516333 Functional Vision - 1cr 31516334 Refractometry - 1cr 31516307 Ocular Diseases and Treatment - 1cr 31516332 Patient History and Vision - 1cr

19-516-3 Eyecare Receptionist (5 credits)...prepares the learner to neutralize lenses, discern between urgent and non-urgent clinic visits, perform comprehensive case histories, refract, measure eye alignment, and perform basic external slit lamp examinations. 31516331 Front Desk and Patient Triage - 1cr 31501309 Medical Terminology - Part 1 - 1cr 31501310 Medical Terminology - Part 2 - 1cr

31501311 Medical Terminology - Part 3 - 1cr 31516307 Ocular Diseases and Treatment - 1cr

19-516-5 Eyecare Scribe (5 credits)...prepares the learner to refract, investigate binocular and accommodative dysfunctions, perform slit lamp exams, 19-516-5 Eyecare Scribe (5 Creatis)...prepares the reaction to reacted, inter-operation of the second secon

31509313 Human Body - Part 3 - 1cr

19-516-1 Optical (7 credits)...prepares the learner to neutralize lenses, choose frames and lenses based on the conusumers specific needs, and perform basic eveglass repairs.

31516320 Basic Optical Concepts - 1cr 31516316 Frame Characteristics - 1cr 31516317 Eyewear Adjustment - 1cr 31516318 Ophthalmic Lens Selections - 1cr 31516319 Frame Styling and Purchasing - 1cr 31516321 Lens Power and Protection - 1cr 31516322 Compare Multifocal Lenses - 1cr

19-516-4 Specialty Eyecare (8 credits)...prepares the learner to refract, investigate binocular and accommodative dysfunctions, perform slit lamp exams, measure intraocular pressures, and investigate ocular disease with current eyecare technology.

31516333 Functional Vision - 1cr 31516334 Refractometry - 1cr 315163089 Cornea Evaulation - 1cr 31516309 Tear Evaulation - 1cr

31516341 Intraocular Pressure - 1cr 31516336 Soft Contact Lens Wear - 1cr 31516342 Specialty Glaucoma Testing - 1cr 31516337 Rigid Contact Lens Wear - 1cr



INFORMATION TECHNOLOGY

19-150-1 Industrial Networking (13 credits)...trains the student to understand data networks and understand programmable controllers in a manufacturing setting. The value of this certificate is that it allows the student to understand both the data network side of manufacturing and the networked machinery that relies heavily on IT infrastructure.

10150114 Networking 1 - 3cr 10150176 Networking 2 - 3cr 10620138 Programmable Controllers-Allen Bradley - 3cr

10620140 Programmable Controllers-Allen Bradley Advanced - 2cr 10150176 Networking 2 - 2cr 10620198 Industrial Networks - 2cr

19-150-2 Servers and Networking (21 credits)...introduces the student to Cisco networks, the Microsoft server operating system and virtualization systems. This certificate prepares the student well to take the Cisco CCENT certification exam.

10150114 Networking 1 - 3cr 10150129 Virtualization - 3cr 10150176 Networking 2 - 3cr 10150163 Neworking 3 - 3cr

10154124 Information Security Principles - 3cr 10150173 Server Administration 1 - 3cr 10150174 Server Administration 2 - 3cr

MARKETING & GRAPHIC DESIGN

19-201-1 Adobe Creative Cloud (12 credits)...this certificate focuses on the Adobe Suite software. Courses include Photoshop, Illustration, InDesign and Multimedia Concepts.

10201109 Illustration - 3cr 10201108 Photoshop - 3cr 10201110 InDesign - 3cr 10152122 Multimedia Concepts - 3cr

19-201-2 Digital Media (15 credits)...this certificate focuses on the creation and maintenance of web sites/pages.

10201101 Design Fundamentals - 3cr 10201108 Photoshop - 3cr 10152196 Web Development 1 - 3cr 10152122 Multimedia Concepts - 3cr 10201173 Website Development Advanced - 3cr

19-201-3 Digital Print Design (14 credits)...this certificate focuses on the creation of brochures, packaging, signage, etc.

10201101 Design Fundamentals - 3cr 10201108 Photoshop - 3cr 10201109 Illustration - 3cr 10201110 InDesign - 3cr 10201114 Typography - 2cr

SOFTWARE LEARNING CENTER

19-103-2 Microsoft® Office Integration (9 credits)...you can earn a 9-credit certificate designed to develop specialized skills that can be a real advantage in the workplace. This real-world credential will prove your proficiency in a multitude of Microsoft Office programs and will be a big bonus on your resume.

10103101 Access-Lev 1 - 1cr 10103161 PowerPoint-Lev 1 - 1cr 10103121 Excel-Level 1 - 1cr 10103122 Excel-Lev 2 - 1cr 10103191 Word-Level 1 - 1cr 10103192 Word-Lev 2 - 1cr 10106167 Microsoft Office Integration - 3cr

19-109-3 Microsoft® Office Introduction (4 credits)...designed for students who wish to demonstrate to employers that they have a basic knowledge of the core Microsoft Office software programs. Provides knowledge in creating a basic document, workbook, presentation, and database; and modifying existing files. A grade of C or better is required in each class. The software is available for free after registration in the course. You will need to purchase the Cengage Unlimited access code which is needed for the course.

10103191 Word -Level 1 - 1cr 10103121 Excel -Level 1 - 1cr 10103161 PowerPoint -Level 1 - 1cr 10103101 Access -Level 1 - 1cr

19-201-3 Digital Print Design (14 credits)...this certificate focuses on the creation of brochures, packaging, signage, etc.

10201101 Design Fundamentals - 3cr 10201108 Photoshop - 3cr 10201109 Illustration - 3cr 10201110 InDesign - 3cr 10201114 Typography - 2cr



CHILD CARE SERVICES

Catalog No. Class Title

Program Number 31-307-1 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

Students in this fast-growing field receive training in planning and implementing developmentally appropriate curriculum for specific age levels; using positive guidance techniques to manage an early childhood classroom; providing for the health, safety and physical needs of the children; and work with parents to provide a link between the center and the home.

PROGRAM OUTCOMES

- Relate knowledge of child development to practice
- · Create relationships with children, family and the community
- · Apply observation, documentation, and assessment strategies
- Implement developmentally appropriate teaching and learning activities
- Demonstrate professionalism
- · Follow health, safety and nutrition practices

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/futurestudents/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. This will also include a discussion and given paperwork to complete fingerprint-based background check request form a semester prior to enrolling in Introductory Practicum.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

- \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financialaid/tuition-and-fees for details.
- Fingerprint-based background check current fee of \$39 (subject to change)

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

*ECE: Health, Safety & Nutrition is a prerequisite to Introductory Practicum. To keep a student on track to graduation, this course is offered summer, fall and spring terms. In addition, Introductory Practicum is offered fall and spring terms. Intermediate, Preschool and Advanced Practicums are offered summer, fall and spring. Please meet with your LTC program counselor to plan the best path for you.

Introductory Practicum students are required to attend all course reflections to receive required trainings (36 hours of lecture + 72 hours of field experience).

Intermediate Practicum students are also required to attend all course reflections (36 hours of lecture + 72 hours of field experience).

To complete the clinical portion of this program, site specific health and immunization documentation will be required.

RELATED PROGRAMS

· Early Childhood Education Associate Degree

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| 10307148 | Term 1 ECE: Foundations of Early Childhood Education | 3 |
|----------|-------------------------------------------------------------------|----|
| 10307151 | ECE: Infant & Toddler Development | 3 |
| 10307174 | ECE: Introductory Practicum | 3 |
| 10307110 | ECE: Social Studies, Art & Music | 3 |
| 10801195 | Written Communications | 3 |
| | | 15 |
| | Term 2 | |
| 10307179 | ECE: Child Development | 3 |
| 10307188 | ECE: Guiding Children's Behavior | 3 |

| 10307188 | ECE: Guiding Children's Behavior | 3 |
|----------|------------------------------------|----|
| 10307177 | ECE: Intermediate Practicum | 3 |
| 10307108 | ECE: Early Language & Literacy | 3 |
| 10307167 | ECE: Health, Safety, and Nutrition | 3 |
| 10809172 | Introduction to Diversity Studies | 3 |
| | | 18 |

TOTAL 33

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ECE: CHILD DEVELOPMENT...examines child development within the context of the early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze social, cultural, and economic influences on child development; summarize child development theories; analyze development of children ages three through five; analyze development of children ages five through eight; relate child development research findings to teaching practice; analyze the role of heredity and the environment; examine the role of brain development in early learning (ages 3-8); examine developmental and environmental assessment strategies for children ages 3-8.

ECE: EARLY LANGUAGE AND LITERACY...explores strategies to encourage the development of early language and literacy knowledge and skill building in children birth to 8 years of age. Learners will investigate the components of literacy including; literacy and a source of enjoyment, vocabulary and oral language, phonological awareness, knowledge of print, letters and words, comprehension and an understanding of books and other texts. Theories and philosophies regarding children's language and literacy development will be addressed. Dual language learning will be examined within the context of developmentally appropriate practices. Assessment tools for early language and literacy acquisition will be reviewed.

ECE: FOUNDATIONS OF EARLY CHILDHOOD EDUCATION...introduces you to the early childhood profession. Course competencies include: explore the concepts of diversity, cultural responsiveness, and anti-bias as it relates to early childhood education, investigate the history of early childhood education, examine regulatory requirements for early childhood education programs in WI, summarize types of early childhood education settings, identify the components of a quality early childhood education program, summarize responsibilities of early childhood education professionals, explore early childhood curriculum models and examine the critical role of play as it relates to developmentally appropriate practice.

ECE: GUIDING CHILDREN'S BEHAVIOR...examines positive strategies to guide children's behavior in the early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze techniques for and effects of strong relationshipbuilding with children and families; identify positive and proactive guidance principles and techniques to support children; analyze environmental influences on child behavior; identify strategies that support children's active engagement in the learning environment; identify strategies that proactively teach friendship skills; identify strategies that proactively teach friendship skills; identify strategies that proactively teach friendship skills; identify strategies that proactively teach sesses and interpret behavior; create a behavior support plan based on a functional behavior assessment; create a guidance philosophy. This course meets the requirements of the "24 hour Wisconsin" Pyramid Model training.

ECE: HEALTH, SAFETY AND NUTRITION...examines the topics of health, safety, and nutrition within the context of the early childhood educational setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; examine governmental regulations and professional standards as they apply to health, safety, and nutrition; plan a safe early childhood environment; plan a healthy early childhood environment; plan nutritionally sound menus; examine child abuse and neglect issues and mandates; describe Sudden Infant Death Syndrome (SIDS) risk reduction strategies; describe strategies to recognize and prevent the occurrence of abusive head trauma (AHT); incorporate health, safety, and nutrition concepts into the children's curriculum.

ECE: INFANT AND TODDLER DEVELOPMENT...will study infant and toddler development as it applies to an early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and antibias perspectives; analyze development of infants and toddlers (conception to thirtysix months); correlate prenatal and postnatal conditions with development; summarize child development theories; analyze the role of heredity and the environment; examine culturally and developmentally appropriate environments for infants and toddlers, examine the role of brain development in early learning (conception through thirty-six months); examine caregiving routines as curriculum; and examine developmental and environmental assessment strategies for infants and toddlers.

ECE: INTERMEDIATE PRACTICUM...will be implementing regulations and standards for quality early childhood education, applying knowledge of child development and positive guidance, utilizing observation and assessment techniques, and assessing developmentally appropriate environments for children. PREREQUISITE: 10307174 ECE: Introductory Practicum and CONDITION: 103071 Early Childhood Education or 313071 Child Care Services program admissions requirements met ECE: INTRODUCTORY PRACTICUM...will learn about and apply the course competencies in an actual early childhood setting. You will explore the standards for quality early childhood education, demonstrate professional behaviors, and meet the requirements for training in the Wisconsin Model Early Learning Standards. Fingerprintbased background check completed with result of "Final Eligibility" is required. CONDITION: 103071 Early Childhood Education admission requirements met or 313071 Child Care Services admission requirements met PREREQUISITE: 10307167 ECE: Health, Safety & Nutrition

ECE: SOCIAL STUDIES, ART, AND MUSIC...will focus on beginning level curriculum development in the specific integrated content areas of social studies, art, music, & movement (SSAMM).

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



CHILDCARE PROFESSIONAL

Program Number 61-307-4 Certificate • 12 credits

ABOUT THE PROGRAM

Learners will gain an understanding of children's needs and the behaviors that are needed to function in today's childcare environment. Students will gain skills in the childcare industry that can transfer directly into employment. This certificate could result in a completer gaining a higher YoungStar rating, and in turn resulting in a safer and more productive environment for the child/children.

PROGRAM OUTCOMES

- · Gain awareness of proper nutrient, licensing rules and regulations, health and safety standards essential to the education and welfare of young children
- · Comprehend professional terminology used in the early childhood field

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- · Submit online application.
- · Complete the online Student Success Questionnaire.
- · Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

· Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

To practice in the field completers will need to successfully pass a background information check.

The Registry Preschool Credential - after successful completion of ECE: Child Development, ECE: Social Studies, Art & Music, ECE: Health, Safety & Nutrition, ECE: Guiding Children's Behavior, ECE: Foundations of Early Childhood Education and ECE: Introductory Practicum, students are eligible to enroll in ECE: Preschool Practicum which serves as the capstone course in The Registry Preschool Credential. The student will be placed in an early childhood setting with 3-5 yr old children and create a portfolio that prepares them for The Registry commission. If you would like more information about receiving this credential, please contact Jennifer Irish, ECE Instructor at jennifer.irish@gotoltc.edu or 920-693-1348.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

A Child Care Professional pathway certificate will train students for work in the occupation of childcare. There are an estimated 203 annual job openings within a 50 mile radius of Sheboygan and Manitowoc counties. This certificate also ladders into the Childcare Services technical diploma program and Early Childhood Education associate degree. After completing the associate degree program students can continue their education at various 4-year colleges.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu Catalog No. Class Title

COURSES

| 10307151 | ECE: Infant and Toddler Development | 3 |
|----------|-------------------------------------|---|
| 10307167 | ECE: Health, Safety and Nutrition | 3 |
| 10307110 | ECE: Social Studies, Art & Music | 3 |
| 10307179 | ECE: Child Development | 3 |
| | | |

TOTAL 12

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ECE: CHILD DEVELOPMENT...examines child development within the context of the early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze social, cultural, and economic influences on child development; summarize child development theories; analyze development of children ages three through five; analyze development of children ages five through eight; relate child development research findings to teaching practice; analyze the role of heredity and the environment; examine the role of brain development in early learning (ages 3-8); examine developmental and environmental assessment strategies for children ages 3-8.

ECE: HEALTH, SAFETY AND NUTRITION...examines the topics of health, safety, and nutrition within the context of the early childhood educational setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; examine governmental regulations and professional standards as they apply to health, safety, and nutrition; plan a safe early childhood environment; plan a healthy early childhood environment; plan nutritionally sound menus; examine child abuse and neglect issues and mandates; describe Sudden Infant Death Syndrome (SIDS) risk reduction strategies; describe strategies to recognize and prevent the occurrence of abusive head trauma (AHT); incorporate health, safety, and nutrition concepts into the children's curriculum.

ECE: INFANT AND TODDLER DEVELOPMENT...will study infant and toddler development as it applies to an early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and antibias perspectives; analyze development of infants and toddlers (conception to thirtysix months); correlate prenatal and postnatal conditions with development; summarize child development theories; analyze the role of heredity and the environment; examine culturally and developmentally appropriate environments for infants and toddlers, examine the role of brain development in early learning (conception through thirty-six months); examine caregiving routines as curriculum; and examine developmental and environmental assessment strategies for infants and toddlers.

ECE: SOCIAL STUDIES, ART, AND MUSIC...will focus on beginning level curriculum development in the specific integrated content areas of social studies, art, music, & movement (SSAMM).



CNC AUTOMATION TECHNICIAN

Program Number 32-444-1 **Technical Diploma • Four Terms**

ABOUT THE PROGRAM

Learn CNC (computer numerical control) and Machining at your own pace, through hands-on learning, and with your instructor and success coach to guide you. Computer numerical control (CNC) machining is used to perform a wide range of manufacturing tasks including milling, drilling, and turning. Technicians work with CNC equipment from setup through operation, producing parts and tools from metal, plastic, or other materials. CNC technicians program the equipment to control speed, feed, and path of the cut. They inspect the finished product to ensure it is a quality part and ready for the next step in production. If you like to create things with your hands, are fascinated with technology, and want above-average earning power, the CNC Automation Technician program is for you.

PROGRAM OUTCOMES

- · Apply basic safety practices in the machine shop.
- · Interpret industrial/engineering drawings.
- Apply precision measuring methods to part inspection.
- · Perform advanced machine tool equipment set-up and operation.
- Perform advanced programming, set-up and operation of CNC Machine Tools.
- Perform advanced CNC Machining operations.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned Program Counselor/Success Coach to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

This program offers flexible start dates throughout the year. Students can attend classes anytime Monday through Thursday from 8am-8pm.

RELATED PROGRAMS

- Machinist Apprenticeship
- Tool and Die Apprenticeship
- Millwright Apprenticeship

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. Class Title | Credit(s) |
|-------------------------|-----------|
| | |

Term 1

3

3

3

3 3

3

3

3

3 3

3 3

3

| 1420310 | Shop Tools and Fasteners | 1 |
|---------|-------------------------------------------|---|
| 1420330 | Precision Measuring | 1 |
| 1420385 | Orthographic Projection Print | 1 |
| 1420325 | Machining Math Basic | 1 |
| 1420338 | Drills and Saws | 1 |
| 1420340 | Manual Lathe Operation | 1 |
| 1420350 | Manual Mill Operation | 1 |
| 1420386 | GD&T Intro | 1 |
| 1420326 | Machining Geometry and Basic Trigonometry | 1 |
| 1444301 | Mill-G&M Code | 1 |
| 1444303 | CNC Machining Operation | 1 |
| 1444309 | CNC Turning Operation | 1 |
| 1420359 | Safe Heat Treating Operations | 1 |

Term 2

| 31801361 | Interpersonal Skills | 1 |
|----------|--------------------------------------------|---|
| 31801360 | Workplace Fundamentals | 1 |
| 31444305 | Turning-G&M Code | 1 |
| 31444307 | Mill-2D Using CAM | 1 |
| 31420353 | ProtoTrak Mill-Squaring Programming | 1 |
| 31420354 | ProtoTrak Mill-Slot and Hole Programming | 1 |
| 31420356 | Surface Grinder Operations | 1 |
| 31444311 | CNC Turning-Turning and Cut Off Setup | 1 |
| 31444313 | CNC Turning-Hole Producing Setup/Threading | 1 |
| 31444315 | CNC Machining-Facing and End Milling Setup | 1 |
| 31444317 | CNC Machining-Hole/Slot/Engraving Setup | 1 |
| 31444321 | CNC Turning 2D Using CAM | 1 |
| 31420361 | Complex Print Drawings | 1 |
| 31420362 | Advanced Precision Measuring | 1 |
| 31420363 | GD&T-Inspection | 1 |
| | | |

Term 3

| 31444319 | CNC Milling-Advanced G&M Code Programming | 1 |
|----------|---------------------------------------------|---|
| 31444323 | CNC Machining-Probing/Editing/G&M Code | 1 |
| 31444325 | CNC Machining-Work Holding | 1 |
| 31444327 | CNC Turning-Program Editing | 1 |
| 31444329 | CNC Turning-G&M Code Programming | 1 |
| 31444331 | CNC Machining-G&M Code Programming | 1 |
| 31444333 | CNC Machining-Setup/Operation with G&M Code | 1 |
| 31444335 | CNC Turning-Adv G&M Code Programming | 1 |
| 31444357 | CNC Turning-Setup and Operation | 1 |
| 31420364 | ProtoTrak-Adv Conversational Programming | 1 |
| 31420365 | ProtoTrak-Adv Programming w/ A.G.E./DXF | 1 |
| 31444347 | HSM for SolidWorks | 1 |

Term 4

| 32444306 | CNC Skills Portfolio | 1 |
|----------|--------------------------------------------|---|
| 32444343 | CNC Technician Internship | 2 |
| 31444339 | CNC Machining-G&M Programming Using CAM | 1 |
| 31444341 | CNC Machining-Setup/Operation Using CAM | 1 |
| 31444343 | CNC Turning-G&M Programming Using CAM | 1 |
| 31444345 | CNC Turning-Setup and Operation Using CAM | 1 |
| 31444349 | CNC Turning with Live Tooling-Operation | 1 |
| 31444351 | CNC Turning with Live Tooling-Programming | 1 |
| 31444353 | CNC Turning w/Live Tooling-G&M Programming | 1 |
| 31444359 | Wire EDM Operation | 1 |
| 31444371 | Wire EDM Program/Operate | 1 |
| 10620167 | Robotics-Teach Pendant/Controls | 1 |
| 10620179 | Robotics-Editing Programs | 1 |
| | | |

14

13

15

12

TOTAL 54

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

Please see Precision Machining Technology for Term 1 & 2 course descriptions.

CNC MACHINING-G&M CODE PROGRAMMING...prepares the learner to create G&M code programs to produce parts on a CNC machining center. COREQUISITES: 31444325 CNC Machining-Work Holding or PREREQUISITES: 32444302 Advanced Machining Centers 1A and 31420315 CAM for Milling Machines

CNC MACHINING-G&M PROGRAMMING USING CAM...prepares the learner to create G&M code programs using CAM for CNC machining center. COREQUISITE: 31444325 CNC Machining-Work Holding or PREREQUISITE: 32444308 Advanced Machining Centers 1B

CNC MACHINING-PROBING/EDITING/G&M CODE...prepares the learner to perform probing on CNC machining center for location and editing G&M code programs. COREQUISITE: 31444317 CNC Machining-Hole/Slot/Engraving Setup or PREREQUISITE: 31420382 Machine Tool CNC Machining Centers

CNC MACHINING-SETUP/OPERATION USING CAM...prepares the learner to operate CNC machining center using student developed CAM programs. COREQUISITE: 31444339 CNC Machining-G&M Programming using CAM

CNC MACHINING-SETUP/OPERATION WITH G&M CODE...prepares the learner to setup and operate CNC machining center using student developed G&M code programs. COREQUISITE: 31444331 CNC Machining - G&M Code Programming

CNC MACHINING-WORK HOLDING...prepares the learner to create parts using various work holding techniques on the CNC machining center. COREQUISITE: 31444323 CNC Machining-Probing/Editing/G&M Code

CNC MILLING-ADVANCED G&M CODE PROGRAMMING...prepares the learner to create advanced milling G&M code programs. COREQUISITE: 31444305 Turning G&M Code or PREREQUISITES: 31420313 or 10420184 MT Programming

CNC SKILLS PORTFOLIO...prepares learner to create a portfolio of program projects. COREQUISITES: 31444341 CNC Machining-Setup/Operation using CAM and 31444345 CNC Turning-Setup and Operation using CAM

CNC TECHNICIAN INTERNSHIP...prepares learner to apply technical skills as well as work productively, communicate effectively, and demonstrate ethics in a professional workplace. COREQUISITES: 31444333 CNC Machining-Setup/Operate with G&M Code and 31444357 CNC Turing-Setup and Operation and 32444306 CNC Skills Portfolio

CNC TURNING WITH LIVE TOOLING-G&M PROGRAMMING...prepares the learner to operate CNC turning center with live tooling using student developed G&M code programs. COREQUISITE: 31444351 CNC Turning with Live Tooling-Programming

CNC TURNING WITH LIVE TOOLING-OPERATION...prepares the learner to operate CNC turning center with live tooling safely. COREQUISITES: 31444341 CNC Machining-Setup/Operation using CAM and 31444345 CNC Turning-Setup and Operation using CAM

CNC TURNING WITH LIVE TOOLING-PROGRAMMING...prepares the learner to write G&M code programs for CNC turning center with live tooling. COREQUISITE: 31444349 CNC Turning with Live Tooling-Operation

CNC TURNING-ADVANCED G&M CODE PROGRAMMING...prepares the learner to create advanced G&M code programs for CNC turning center. COREQUISITE: 31444329 CNC Turning-G&M Code Programming or PREREQUISITES: 32444307 Advanced Turning Centers 1A and 32444310 CAM for Turning Machines

CNC TURNING-G&M CODE PROGRAMMING...prepares the learner to create G&M code programs to produce parts on a CNC turning center. COREQUISITE: 31444327 CNC Turning-Program Editing

CNC TURNING-G&M CODE PROGRAMMING USING CAM...prepares the learner to create G&M code programs using CAM for CNC turning center. COREQUISITE: 31444329 CNC Turning - G&M Code Programming or PREREQUISITE: 32444308 Advanced Turning Centers 1B

CNC TURNING-PROGRAM EDITING...prepares the learner to edit programs to produce parts on CNC turning center. COREQUISITE: 31444313 CNC Turning-Hole Producing Setup/Threading or PREREQUISITE: 31420380 Machine Tool CNC Turning Centers and 10420184 or 31420313 Machine Tool Programming

CNC TURNING-SETUP AND OPERATION...prepares the learner to setup and operate CNC turning center using tailstock and lefthand tooling. COREQUISITE: 31444335 CNC Turning-Advanced G&M Code Programming CNC TURNING-SETUP AND OPERATION USING CAM...prepares the learner to operate CNC turning center using student developed CAM programs. COREQUISITE: 31444343 CNC Turning-G&M Programming Using CAM

HSM FOR SOLIDWORKS...prepares the learner to create G&M code programs using HSM for SolidWorks software

PROTOTRAK-ADV CONVERSATIONAL PROGRAMMING...prepares the learner to perform advanced sub routine functions using conversational programming on ProtoTrak vertical milling machine. COREQUISITE: 31420354 ProtoTrak Mill-Slot and Hole Programming or PREREQUISITE: 31420352 Machine Tool Mills 2

PROTOTRAK-ADV PROGRAMMING WITH A.G.E./DXF...prepares the learner to create conversational programs using A.G.E. (Auto Geometry Engine) and DXF functions on ProtoTrak vertical milling machine. COREQUISITE: 31420364 ProtoTrak-Advanced Conversational Programming

ROBOTICS-EDITING PROGRAMS...teaches troubleshooting and repairing issues in a robot program. COREQUISITE: 10620167 Robotics-Teach Pendant/ Controls

ROBOTICS-TEACH PENDANT/CONTROL...instructs students on using a teach pendant to control a robot. COREQUISITE: 10620179 Robotics-Editing Programs

WIRE EDM OPERATION...prepares the learner to analyze the wire EDM processes, identify components, set up and operate wire EDM safely. COREQUISITES: 31420310 Shop Tools and Fasteners and 31420330 Precision Measuring or 10462107 Tools and Measurement and 31444305 Turning-G&M Code and 31444307 Mill-2D Using CAM

WIRE EDM PROGRAM/OPERATE...prepares the learner to program the wire EDM using CAM software, then set up and operate those programs on the wire EDM. COREQUISITES: 31420310 Shop Tools and Fasteners and 31420330 Precision Measuring or 10462107 Tools and Measurement and 31444305 Turning-G&M Code and 31444307 Mill-2D Using CAM

COMPUTER-AIDED DESIGN (CAD) TECHNICIAN

Catalog No. Class Title

Program Number 30-606-3 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

Students work on acquiring high-level drafting skills and utilize computer-aided drafting (CAD) software. They learn to construct and revise engineering working drawings to ASME (American Society of Mechanical Engineers) standards.

PROGRAM OUTCOMES

- · Prepare detail and assembly drawings for documentation of mechanical parts and machines using CAD (Computer-Aided Design) software using ASME Y14.5M Standard.
- · Create CAD geometry, parts and assemblies.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your
- assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

Program can also be completed by attending evenings.

CONTACT

purposes.

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

Term 1 Mechanical Drafting Standards/Procedures 10606100 1 10606101 AutoCAD-2D Computer Aided Design 2 10606108 SolidWorks 1-Parametric Modeling 2 Product Design & Rapid Prototyping 10606102 1 10606104 Manufacturing Processes and Materials 2 Machining Applications 1 10420107 9 Term 2 1 1(

| 10606106 | Tolerancing and GD&T | 3 |
|----------|-----------------------------------|---|
| 10606109 | SolidWorks 2-Modeling/Details for | 2 |
| | Designers | |
| 10606110 | SolidWorks 3-Working Drawings for | 2 |
| | Designers | |
| 10606111 | SolidWorks-Advanced Modeling | 2 |

TOTAL 18

9

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

AUTOCAD-2D COMPUTER AIDED DESIGN...provides the learner with the skills to utilize AutoCAD's drawing editor, viewing commands; apply coordinate entry methods, AutoCAD file commands; utilize draw commands, modify commands; create and edit text, prints & plots; apply geometric construction to solve a drawing problem; utilize selection sets, duplicating modify commands, layers & objects properties, blocks; apply principles of orthographic and multi view projection.

MACHINING APPLICATIONS...takes a hands-on approach to the subject of machining processes including milling, turning and drilling. Students will use the machines common to a machine shop to build a functional gearbox during their time in this course. The use of calipers, micrometers and coordinate measuring machines will also be used to verify the work. COREQUISITE: 10606104 Manufacturing Processes and Materials

MANUFACTURING PROCESSES AND MATERIALS...introduces the learner to machining processes including, milling, turning, and drilling. The learner will also learn how to properly use and read dial and digital micrometers; dial, digital and vernier calipers. In addition, the student will also explore metallurgy, computer-age machining and methods in advanced manufacturing technology.

MECHANICAL DRAFTING STANDARDS & PROCEDURES...develops skills in creating engineering sketches through the application of drafting standards and procedures. Principles covered include view selection, orthographic projection, section and auxiliary views, and their utilization in working drawings. The need for engineering sketching is reinforced through a hands-on project requiring measurement, inspection and sketching of orthographic views.

PRODUCT DESIGN AND RAPID PROTOTYPING...introduces students to rapid prototyping methods and the operation of various types of rapid prototyping equipment available in the Mechanical Design and Engineering Technology program's Fab Lab. Research and the use 3D printers including FDM and related material usage, will be explored through hands-on lab activities to develop a working prototype. COREQUISITE: 10606108 SolidWorks 1 - Parametric Modeling

SOLIDWORKS 1-PARAMETRIC MODELING...introduces the students to the concepts and commands of parametric solid modeling. Students create sketches and add relationships to the sketch segments, extrude the sketches to create models, and add features such as fillets, cut extrude, chamfers, holes, draft, shell, lofts and sweeps. Emphasis is placed on the design intent of the parametric solid models.

SOLIDWORKS 2-MODELING/DETAILS FOR DESIGNERS...is the second course in the study of parametric solid modeling using SolidWorks as it applies to the mechanical design field. Students extract 2D documentation from the 3D models and add details to the drawings. Advanced software applications are explored including assembly modeling techniques, configurations, detail drawing generation, surfaces, multibody parts, additional work with sweeps and lofts, and preparation for the CSWA (Certified SolidWorks Associate) exam. PREREQUISITES: 10606100 Mechanical Drafting Standards/Procedures and 10606108 SolidWorks 1 - Parametric Modeling

SOLIDWORKS 3-WORKING DRAWINGS FOR DESIGNERS...focuses on the creation of complete sets of engineering detail and assembly drawings including the accompanying engineering documentation, bill of materials and the application of geometric dimensioning and tolerancing standards. Emphasis is placed on product design analysis, tolerance stack ups and the application of GD&T. COREQUISITE: 10606109 SolidWorks 2-Modeling/Details for Designers

SOLIDWORKS-ADVANCED MODELING...introduces students to advanced modeling and design techniques for part design in sheet metal, weldments, castings and mold design. COREQUISITES: 10606110 SolidWorks 3-Working Drawings for Designers and 10606106 Tolerancing and GD&T

TOLERENCING AND GD&T...provides the learner with the skills to apply and interpret tolerancing standards for both rectangular and geometric tolerancing (ASME 14.5M-2018) on part drawings, including form, profile, orientation, runout, and positional tolerances. Additionally the learning will design mating parts and tolerance stack ups with and without GD&T.

CONSTRUCTION TRADES FUNDAMENTALS

Program Number 61-475-1 Certificate • 13 credits

ABOUT THE PROGRAM

The Construction Trades Fundamentals Pathway Certificate provides the needed knowledge and skills to start a career in the construction trades. Students will learn basic knowledge about various construction trades as well as how to work safely.

PROGRAM OUTCOMES

- · Demonstrate safety and proper use of materials, tools, and equipment
- · Demonstrate proper use of hand and power tools
- · Interpret construction documents and blueprints
- Demonstrate wood frame layout and assembly
- · Recognize plumbing, heating, ventilating, air conditioning and electrical systems

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- · Submit online application.
- · Complete the online Student Success Questionnaire.

 Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
 *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu Catalog No. Class Title

Credit(s)

COURSES

| Introduction to Construction | 2 |
|---------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Basic Electricity for Construction Trades | 2 |
| Blueprint Reading for Building Construction | 2 |
| College Mathematics | 3 |
| Welding Introduction | 1 |
| Mechanical Service Applications | 3 |
| | Basic Electricity for Construction Trades Blueprint Reading for Building Construction College Mathematics Welding Introduction |

TOTAL 13

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

BASIC ELECTRICITY FOR CONSTRUCTION TRADES...provides practical DC/AC concepts to introduce various components, electrical quantities, and measuring values in DC and AC circuits. Circuit measurement of voltage, current, and resistance will be taken with analog and digital meters applying basic concepts. The student will learn about electrical theory, electrical safety, basic circuit design, measuring equipment, general wiring practices, motors, and transformers.

BLUEPRINT READING FOR BUILDING CONSTRUCTION...provides instruction in reading and interpreting shop drawings, residential drawings, and commercial building plans. Emphasis is placed on building terminology and learning conventional techniques of communicating building methods from the designer to the builder. Students learn to visualize the structure and to interpret elevations, plan views, details, and sections from drawings. They also learn to read and interpret building specifications.

COLLEGE MATHEMATICS...is designed to review and develop fundamental concepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2) geometry and trigonometry; and 3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators. PREREQUISITE: 10834109 Pre-Algebra or Math placement assessment equivalent

INTRODUCTION TO CONSTRUCTION...provides the learner with an overview of the various construction trades including framing, roofing, masonry block work, masonry flat work, electrical, HVAC, plumbing, and finish cabinetry work.

MECHANICAL SERVICE APPLICATIONS...students will learn and apply skills related to mechanical applications regarding hand and power tools, brazing, black pipe, PVC, Pex, electrical conduit, and basic sheet metal for flashing and ducts.

WELDING INTRODUCTION...introduces the learner to the world of welding, weld shop safety practices, welding terminology, and welding machine setup to industry standards. Learners will be introduced to the three major welding processes: SMAW, GMAW, and GTAW and will build skills welding with each process in the flat and horizontal positions while using the common welding joints found in industry. The learner will process material using the two major hand-held cutting processes - Oxyfuel and PAC.

COURT REPORTING

Credit(s)

5

1

1

3

3

1

14

5

1

2

3

1

2

1

3

6

2

2 3

2

3

12

1

2

2

3

1

2

3

2

16

TOTAL 60

12

Program Number 10-170-2 Associate Degree in Applied Science • Varies

Realtime Reporting 1

Realtime Reporting 1 Lab

Introduction to Psychology

Written Communication

Realtime Reporting 2

10801198 Speech

Term 3 (Summer)

Skillbuilding 1 (optional) (2 cr)

Skillbuilding 2 (optional) (2 cr)

Skillbuilding 3 (optional) (2 cr)

Literary 1 - Advanced

Jury Charge 1 - Advanced

Principles of Sustainability

Court Reporting Internship

Jury Charge 2 - Advanced

Court Reporting Procedures

Medical Reporting & Terminology

Testimony 2 - Advanced

Literary 2 - Advanced

Realtime Reporting Technology Adv

Math with Business Applications OR

10804107 College Math OR 10806112

Testimony 1 - Advanced

Realtime Reporting 2 Lab

Realtime Reporting Technology

Oral/Interpersonal Communication OR

Realtime Reporting Speed Development

Broadcast Captioning Research Methods

Introduction to American Government OR

10809172 Introduction to Diversity Studies

Realtime Reporting Orientation

English for Realtime Reporters

Catalog No. Class Title

10170106

10170804

10170144

10801195

10809198

10170184

10170105

10170805

10170159

10801196

10170108

10170104

10809122

10170126

10170127

10170136

10170109

10170128

10170156

10170161

10804123

10170145

10170111

10170129

10170157

10170146

10170141

10170101

10170171

Term 1

Term 2

10170160 Legal Terminology

Term 4

Term 5

Four Voice

Captioning/CART

ABOUT THE PROGRAM

You've seen high-profile trials with a person keying the testimony into a stenograph machine or read the scrolling captions for the hearing-impaired on your TV screen. The person writing the spoken words at speeds ranging from 180 to 225 words a minute is a court reporter. If you're an excellent listener, have strong language and communications skills, and are committed to accuracy and confidentiality, a career in court reporting may be a perfect fit for you.

PROGRAM OUTCOMES

- Utilize machine shorthand with a computer-aided transcription system to write the spoken word and produce a transcript.
- Perform as a realtime reporter with skills to obtain certification.
- Demonstrate knowledge of legal and medical concepts and terminology.
- Apply the NCRA Code of Professional Ethics and Certification Standards.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Complete Notification of Laptop/Steno Rental Equipment form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Students are required to rent a stenograph machine and laptop computer through the rental program available at LTC. LTC's Court Reporting program is approved by the National Court Reporters Association (NCRA).

GRADUATION REQUIREMENT

Three 5-minute timings must be passed in each of the following categories with a minimum of 95 percent accuracy:

- Two-voice testimony @ 225 wpm
- Jury charge @ 200 wpm
- Literary @ 180 wpm
- Court Reporting Internship of 40 hours must be taken within 18 months of graduation.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

BROADCAST CAPTIONING RESEARCH METHODS...prepares the learner to prepare (research) prior to broadcast, conduct research in preparation for broadcasting international news, national news, local news, weather reports, sporting events, writing geographical terms, utilize culturally diverse terminology, and create job dictionaries.

CAPTIONING/CART...prepares the student to write Realtime dictation at 180 wpm, analyze deaf culture, analyze captioning/CART procedures, prepare for broadcast production, configure CAT software for captioning, set up captioning hardware, operate the CAT system in captioning mode, utilize proper technology to control caption spacing and placement, write a news broadcast for 30 minutes non-stop, configure CART software, and analyze the contents of the CART provider's manual. PREREQ: 10170156 Testimony 1-Adv and 10170109 Literary 1-Adv and COREQUISITE: 10170157 Testimony 2–Adv

COURT REPORTING INTERNSHIP...prepares the student to write machine shorthand verbatim for a minimum of 40 hours of actual writing time in the courtroom, classroom, and deposition environment under the supervision of a working reporter; prepare a 40-page transcript, and summarize the internship experience in a narrative report. PREREQ: 101061080r10170108 Realtime Rptg Speed Dev, 10106128 or 10170128 Jury Chrg 1-Adv, 10106109 or 10170109 Lit 1-Adv, 10106156 or 10170156 Test 1-Adv & COREQ: 10106129 or 10170129 Jury Chrg 2-Adv, 10106111 or 10170111 Lit 2-Adv & 10106157 or 10170157 Test 2-Adv

COURT REPORTING PROCEDURES...introduces the student to reporting procedures for which reporters are responsible in the courtroom, deposition, and realtime reporting environments, including preparing salable transcripts, researching legal citations, and developing professional development plans. PREREQUISITE: 10170156 Testimony 1 Advanced

ENGLISH FOR REALTIME REPORTERS...enhances the student's ability to use proper English grammar, spelling, punctuation, capitalization, and vocabulary techniques in the transcription of the spoken word.

FOUR VOICE...prepares the student to write four-voice testimony from material dictated at a minimum speed of 160 wpm for 5 minutes with a minimum of 95 percent accuracy. PREREQUISITE: 10170156 Testimony 1 – Advanced

INTRODUCTION TO AMERICAN GOVERNMENT...introduces American political processes and institutions. It focuses on rights and responsibilities of citizens and the process of participatory democracy. Learners examine the complexity of the separation of powers and checks and balances. It explores the role of the media, interest groups, political parties and public opinion in the political process. It also explores the role of state and national government in our federal system. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

JURY CHARGE 1 - ADVANCED...prepares the student to write jury charge material at 160 words per minute for 3 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170121 Jury Charge 1 - Beginner or 10106121 Jury Charge 1 - Beginner or CONDITION: Minimum of 130 WPM met

JURY CHARGE 2 - ADVANCED...prepares the learner to write jury charge material at 200 words per minute for 5 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170122 Jury Charge 2 - Beginner or 10106122 Jury Charge 2 - Beginner or CONDITION: Minimum of 180 WPM met

LEGAL TERMINOLOGY...provides the student with the ability to spell, pronounce, and define legal terms.

LITERARY 1 - ADVANCED...prepares the learner to write literary material at 150 words per minute for 3 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy, write and read back current events dictation, and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170113 Literary 1 - Beginner or 10106113 Literary 1 - Beginner or CONDITION: Minimum of 130 WPM met

LITERARY 2- ADVANCED...prepares the learner to write literary material at 180 words per minute for 5 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy, write and read back current events dictation, and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170114 Literary 2 - Beginner or 10106114 Literary 2 - Beginner or CONDITION: Minimum of 160 WPM met

MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent **MEDICAL REPORTING/TERMINOLOGY**...prepares the student to write medical terminology in machine shorthand using appropriate medical terminology from material dictated at a minimum speed of 150 wpm for 5 minutes with a minimum of 95 percent accuracy. The student will research medical information, prepare salable transcripts, and submit timings. COREQUISITE: 10170156 Testimony 1 - Advanced or 10106156 Testimony 1 - Advanced

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

REALTIME REPORTING 1...prepares the learners to use machine shorthand to write consonants, vowels, numbers, multi-syllabic words, multi-consonant words, punctuation and special symbols, short forms and phases, words in their singular and plural forms, and prefixes and suffixes. Concurrent registration in Realtime Reporting 1 Lab is required. CONDITION: 101701 Broadcast Captioning or 101702 Court Reporting or 101061 Judicial Reporting program requirements met

REALTIME REPORTING 1 LAB...prepares the learner to use machine shorthand to write consonants, vowels, numbers, multi-syllabic words, multi-consonant words, punctuation and special symbols, short forms and phrases, words in their singular and plural forms, and prefixes and suffixes. Concurrent registration in Realtime Reporting 1 is required. COREQUISITE: 10170106 Realtime Reporting 1 or 10106104 Realtime Reporting 1 and CONDITION: 101701 Broadcast Captioning or 101702 Court Reporting or 101061 Judicial Reporting program requirement met

REALTIME REPORTING 2...prepares the learner to write multi-syllabic words; punctuation and special symbols, short forms and phrases, prefixes and suffixes; numbers, frequently used words and phrases, contractions using the Z-rule, the "Flagged Alphabet," apply realtime conflict elimination principles, apply realtime theory and write dictation using a realtime theory at a minimum speed of 100 wpm.Concurrent registration in Realtime Reporting 2 Lab is required. PREREQUISITES: 10170106 Realtime Reporting 1 and 10170804 Realtime Reporting 1 Lab or 10106804 Realtime Reporting 1 Lab

REALTIME REPORTING 2 LAB...expands the learner's ability to write multi-syllabic words; punctuation and special symbols, short forms and phrases, prefixes and suffixes; numbers, frequently used words and phrases, contractions using the Z-rule, the "Flagged Alphabet," apply realtime conflict elimination principles, apply realtime theory and write dictation using a realtime theory. Concurrent registration in Realtime Reporting 2 is required. COREQUISITES: 10170105 Realtime Rep 2 or 10106105 Realtime Reporting 2

REALTIME REPORTING ORIENTATION...prepares the student to use computerassisted, real-time transcription software, Windows, e-mail, a steno machine, and a laptop in writing machine shorthand in court reporting and to complete and submit required coursework. CONDITION: 101701 Broadcast Captioning or 101702 Court Reporting program requirements met

REALTIME REPORTING SPEED DEVELOPMENT...further develops skills acquired in Realtime Reporting 2 on literary and testimony material beginning at 100 wpm. Scheduled during the summer term, students must pass two, 3-minute timings at a minimum speed of 110 words per minute. PREREQUISITE: 10170105 Realtime Reporting 2 or 10106105 Realtime Reporting 2 and 10170805 Realtime Reporting Lab 2

REALTIME REPORTING TECHNOLOGY...prepares the student to use CAT (Computer-Assisted Transcription) and real-time software; build personal dictionaries; and read, translate, and edit transcripts. Students are introduced to real-time translation procedures in court, depositions, captioning, and educational environments.

REALTIME REPORTING TECHNOLOGY ADVANCED...prepares the learner to expand their knowledge of computer-assisted transcription and realtime software, dictionary management, specialized editing functions, transcript preparation, autoincluded block files, and specialized macros for Steno-related tasks. PREREQUISITE: 10170159 Realtime Reporting Technology

TESTIMONY 1 - ADVANCED....prepares the learner to write 2-voice testimony material at 160 words per minute for 3 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170153 Testimony 1 - Beginner or 10106153 Testimony 1 - Beginner or CONDITION: or Minimum of 130 WPM met

TESTIMONY 2 - ADVANCED...prepares the learner to write 2-voice testimony material at 225 words per minute for 5 minutes and transcribe at least 3 timings with a minimum of 95 percent accuracy and prepare salable transcripts. Course requires a minimum grade of "B" or better. PREREQUISITE: 10170154 Testimony 2 - Beginner or 10106154 Testimony 2 - Beginner or CONDITION: Minimum of 180 WPM met

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

LAKESHORE

CRIMINAL JUSTICE 720 • EMBEDDED ACADEMY

Catalog No. Class Title

105

105

105 105

105

108

Program Number 31-504-7 **Technical Diploma • Three Terms**

ABOUT THE PROGRAM

This program incorporates the Wisconsin Department of Justice Recruit Academy portion of LTC's Criminal Justice Associate Degree. This offers those individuals that have already completed necessary college coursework to complete a Department of Justice Recruit Academy at Lakeshore Technical College.

PROGRAM OUTCOMES

- Think critically.
- Manage emergencies.
- · Communicate effectively.
- · Demonstrate professionalism.
- · Interact with others.
- Demonstrate tactical skills.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Submit official transcripts (high school & other colleges). NOTE: Official transcripts required for acceptance of transfer credits; Financial Aid may require.
- Complete a background check and pay for applicable processing fee. (No felony arrest or domestic violence convictions)
- Complete the online Student Success Questionnaire.
- Complete Firearms User Background Disclosure form.
- Submit US citizenship status.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned advisor to discuss motor vehicle record, plan your first semester schedule, review your entire plan of study, and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

This unique program permits individuals that already have 24 accredited college credits to complete a Department of Justice Recruit Academy and gain the necessary credentials (60 total college credits) to become a certifiable candidate for law enforcement job opportunities.

Individuals seeking Department of Justice Academy completion will need to complete a mandatory physical fitness test for admission to the academy component of this program.

LTC's Criminal Justice-Law Enforcement program is approved by the Wisconsin Department of Justice, Training and and Standards Bureau. The Wisconsin Department of Justice reserves the right to make changes to the Recruit Academy embedded within this program, which may necessitate curriculum changes.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| | Term 1 (Spring) | |
|-------|---------------------------------------|----|
| 04700 | Introduction to Criminal Justice | 3 |
| 04915 | Basic Patrol Response | 2 |
| 01916 | Basic Tactics | 2 |
| 04703 | Basic Investigations | 3 |
| 04920 | Physical Fitness Phase 1 | 1 |
| 01196 | 01196 Oral/Interpersonal Communicaton | |
| | | 14 |
| | Term 2 (Summer) | |

| 917 | Intermediate Investigation |
|-----|------------------------------|
| 711 | Intermediate Patrol Respones |
| 712 | Advanced Tactics 1 |
| 713 | Advanced Tactics 2 |
| 921 | Physical Fitness Phase 2 |
| | 711 712 713 |

Term 3 (Fall)

| 10504706 | Emergency Vehicle Response | 2 |
|----------|----------------------------|----|
| 10504918 | Advanced Investigations | 5 |
| 10504709 | Traffic Response | 3 |
| 10504708 | Physical Fitness Phase 3 | 1 |
| 10504714 | Special Response Tactics | 1 |
| 10504195 | Law Enforcement Capstone | 2 |
| | | 14 |

TOTAL 36

Credit(s)

1

2

2

2

1

8

Students seeking Department of Justice certification must complete the courses in the program in the sequence required by the Department of Justice Recruit Academy phases.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ADVANCED INVESTIGATIONS...instructs students in applying the skills from the Phase III topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Moral Reasoning and Professional Responsibility, Fair and Impartial Policing, Victims, Sexual Assault, Child Maltreatment, Interrogations, Physical Evidence Collection, Testiffying in Court, Juvenile Law, Hazardous Materials, Domestics, and DOJ Integration Exercises. PREREQUISITE: 10504917 Intermediate Investigations

ADVANCED TACTICS 1...teaches and applies the skills from the phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy: Firearms 2. PREREQUISITE: 10504916 Basic Tactics

ADVANCED TACTICS 2...teaches and applies the skills from the phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy: Defence and Arrest Tactics (DAAT). PREREQUISITE: 10504917 Intermediate Investigation

BASIC INVESTIGATIONS...teaches and applies the skills from the Phase 1 topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Constitutional Law, Crimes, Interviews, and Report Writing. Student learning will occur through lecture, on campus lab activities, and the Department of Justice 720 Academy Integration Exercises. CONDITION: 105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy program requirements met

BASIC PATROL RESPONSE...instructs students through classroom lecture, on campus lab and Wisconsin Department of Justice Integration activities. Students will learn and apply skills addressed in the following Depratment of Justice 720 academy Phase I topics: Basic Response(RESPOND), TraCS, Traffic Law Enforcement, and First Aid/ CPR/AED.

BASIC TACTICS...instructs students in the skills from Phase I topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Defense and Arrest Tactics, Fundamentals of Firearms, Vehicle Contacts, and Officer Wellness. Student learning willoccur through: lecture, on campus lab activities, and the Department of Justice 720 Academy Integration Exercises. CONDITION: 105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy

EMERGENCY VEHICLE RESPONSE...teaches and applies the skills from the Phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Emergency Vehicle Operations and Control (EVOC) and Vehicle Contacts 2. Student learning will occur through lecture, on campus lab activities, and Wisconsin Department of Justice 720 Academy Integration Exercises. PREREQUISITE: 10504916 or 10504702 Basic Tactics

INTERMEDIATE INVESTIGATION...instructs students in the skills from the Phase II topics outlined in the WI Department of Justice 720 Academy. Topics include: Constitutional Law II and Evidence Collection. Student learning will occur through lecture and the Wisconsin Departmentof Justice 720 Academy Integration Exercises. PREREQUISITE: 10504703 Basic Investigations

INTERMEDIATE PATROL RESPONSE...teaches and applies the skills from the phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy: Crisis Management, Professional Communications part 2, and Integration Exercise. PREREQUISITE: 10504915 Basic Patrol Response

INTRODUCTION TO CRIMINAL JUSTICE...focuses on the following phase 1 topics as addressed in the Wisconsin Department of Justice Academy 720 curriculum framework: Academy Orientation, Fundamentals of Criminal Justice, Ethics, Cultural Competency, Agency Policy, Professional Communications, Radio Procedures, Critical Thinking, and Integration Exercises to apply learning. PREREQUISITE: 10831103 Intro to College Writing or test or waiver equivalency and 10838105 Intro to Reading Skills or test or waiver equivalency and CONDITION:105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy program requirements met

LAW ENFORCEMENT CAPSTONE...instructs students how to complete practcie scenarios for Phase III Wisconsin Department of Justice 720 Academy testing. Additionally, the Phase III practical testing will occur. COREQUISITE: 10504709 Traffic Response and 10504918 Advanced Investigation

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PHYSICAL FITNESS PHASE 1...applies the physical fitness skills required by the Wisconsin Department of Justice 720 academy in this phase 1 course. Students will apply learning in an instructor facilitated lab with on and off campus physical fitness activities. CONDITION: 105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy

PHYSICAL FITNESS PHASE 2...applies the physical fitness skills required by the Wisconsin Department of Justice 720 academy in this phase 2 course. Students will apply learning in an instructor facilitated lab with on campus physical fitness activities. PREREQUISITE: 10504920 Physical Fitness Phase 1

PHYSICAL FITNESS PHASE 3...applies the physical fitness skills required by the Wisconsin Department of Justice 720 Academy in this Phase 3 course. Students will apply learning in independent lab activities and an on campus physical fitness test/ assessment. PREREQUISITE:10504705 Advanced Tactics or 10504921 Physical Fitness Phase 2

SPECIAL RESPONSE TACTICS...will teach the students, casualty care, tactics related to approaching, controlling, and intervening in unknown-risk and high-risk situations. PREREQUISITE: 10504711 Intermediate Patrol Response

TRAFFIC RESPONSE...teaches and applies the skills from the Phase 3 topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Traffic Law Enforcement - Core and Radar, Traffic Crash Investigations and Incident Management, and Operating While Intoxicated (OWI) and Standard Field Sobriety Testing (SFST), and Crimes. Student learning will occur through lecture and on campus lab activities. PREREQUISITE: 10504706 Emergency Vehicle Response

CRIMINAL JUSTICE • LAW ENFORCEMENT 2

Program Number 10-504-6 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

To serve and protect. These words define the commitment of law enforcement personnel. If you're a law-abiding individual who values honesty, order, detail, and you possess the desire and ability to work with and assist people in a variety of situations, you may want to consider dedicating yourself to an ever-changing career in law enforcement.

PROGRAM OUTCOMES

- Think critically.
- Manage emergencies.
- · Communicate effectively.
- · Demonstrate professionalism.
- · Interact with others.
- Demonstrate tactical skills.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Submit official transcripts (high school & other colleges). NOTE: Official transcripts required for acceptance of transfer credits; Financial Aid may require.
- Complete a background check and pay for applicable processing fee. (No felony arrest or domestic violence convictions)
- Complete the online Student Success Questionnaire.
- Complete Firearms User Background Disclosure form.
- Submit US citizenship status.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned advisor to discuss motor vehicle record, plan your first semester schedule, review your entire plan of study, and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

LTC's Criminal Justice–Law Enforcement program is approved by the Wisconsin Department of Justice, Training and Standards Bureau. The Wisconsin Department of Justice reserves the right to make changes to the Recruit Academy embedded within this program, which may necessitate curriculum changes.

Individuals seeking Department of Justice Academy completion will need to complete a mandatory physical fitness test for admission to the academy component of this program.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | Class Title | Credit(s |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 10504118 10504170 10504910 10801195 10809198 10804189 | Term 1 (Fall) Intro to Public Safety Public Safety Fitness Law Enforcement Career Developme Written Communication Introduction to Psychology Introductory Statistics | ent 2 3 3 |
| 10501700 | Term 2 (Spring) | |

10504700 Introduction to Criminal Justice 3 2 10504915 **Basic Patrol Response Basic Tactics** 2 10504916 10504703 **Basic Investigations** 3 10504920 Physical Fitness Phase 1 1 10504108 Professional Communications in Public 1 Safetv 10809122 Introduction to American Government OR 3 10809166 Introduction to Ethics: Theory & Application

15

Term 3 (Summer)

| 10504917 | Intermediate Investigation | 1 |
|----------|-----------------------------------|----|
| 10504711 | Intermediate Patrol Response | 2 |
| 10504713 | Advanced Tactics 2 | 2 |
| 10504921 | Physical Fitness Phase 2 | 1 |
| 10504712 | Advanced Tactics 1 | 2 |
| 10801198 | Speech | 3 |
| 10801196 | Oral/Interpersonal Communications | 3 |
| | • | 14 |

Term 4 (Fall)

| 1050470 | 6 Emergency Vehicle Response | 2 |
|---------|------------------------------|----|
| 1050491 | 8 Advanced Investigations | 5 |
| 1050471 | 4 Special Response Tactics | 1 |
| 1050470 | 9 Traffic Response | 3 |
| 1050417 | 1 Advanced Patrol Techniques | 3 |
| 1050470 | 8 Physical Fitness Phase 3 | 1 |
| 1050419 | 5 Law Enforcement Capstone | 2 |
| | | 17 |

TOTAL 60

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year. ADVANCED INVESTIGATIONS...instructs students in applying the skills from the Phase III topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Moral Reasoning and Professional Responsibility, Fair and Impartial Policing, Victims, Sexual Assault, Child Maltreatment, Interrogations, Physical Evidence Collection, Testiftying in Court, Juvenile Law, Hazardous Materials, Domestics, and DOJ Integration Exercises. PREREQUISITE: 10504917 Intermediate Investigations

ADVANCED PATROL TECHNIQUES...provides the learner with the specialized knowledge and skills to perform a Pursuit Intervention Technique (PIT) and conduct modified high risk contacts. Additionally, learners will incorporate multiple previously learned traffic concepts into scenario based applications, and learn a variety of restraint and transport procedures. COREQUISITE: 10504706 Emergency Vehicle Response

ADVANCED TACTICS 1...teaches and applies the skills from the phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy: Firearms 2. PREREQUISITE: 10504916 Basic Tactics

ADVANCED TACTICS 2...teaches and applies the skills from the phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy: Defence and Arrest Tactics (DAAT). COREQUISITE: 10504917 Intermediate Investigation

BASIC INVESTIGATIONS...teaches and applies the skills from the Phase 1 topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Constitutional Law, Crimes, Interviews, and Report Writing. Student learning will occur through lecture, on campus lab activities, and the Department of Justice 720 Academy Integration Exercises. CONDITION: 105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy program requirements met

BASIC PATROL RESPONSE...instructs students through classroom lecture, on campus lab and Wisconsin Department of Justice Integration activities. Students will learn and apply skills addressed in the following Depratment of Justice 720 academy Phase I topics: Basic Response(RESPOND), TraCS, Traffic Law Enforcement, and First Aid/ CPR/ AED.

BASIC TACTICS...instructs students in the skills from Phase I topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Defense and Arrest Tactics, Fundamentals of Firearms, Vehicle Contacts, and Officer Wellness. Student learning willoccur through: lecture, on campus lab activities, and the Department of Justice 720 Academy Integration Exercises. CONDITION: 105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy

EMERGENCY VEHICLE RESPONSE...teaches and applies the skills from the Phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Emergency Vehicle Operations and Control (EVOC) and Vehicle Contacts 2. Student learning will occur through lecture, on campus lab activities, and Wisconsin Department of Justice 720 Academy Integration Exercises. PREREQUISITE: 10504916 or 10504702 Basic Tactics

INTERMEDIATE INVESTIGATION...instructs students in the skills from the Phase II topics outlined in the WI Department of Justice 720 Academy. Topics include: Constitutional Law II and Evidence Collection. Student learning will occur through lecture and the Wisconsin Departmentof Justice 720 Academy Integration Exercises. PREREQUISITE: 10504703 Basic Investigations

INTERMEDIATE PATROL RESPONSE...teaches and applies the skills from the phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy: Crisis Management, Professional Communications part 2, and Integration Exercise. PREREQUISITE: 10504915 Basic Patrol Response

INTRODUCTION TO AMERICAN GOVERNMENT...introduces American political processes and institutions. It focuses on rights and responsibilities of citizens and the process of participatory democracy. Learners examine the complexity of the separation of powers and checks and balances. Itexplores the role of the media, interest groups, political parties and public opinion in the political process. It also explores the role of state and national government in our federal system. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO CRIMINAL JUSTICE...focuses on the following phase 1 topics as addressed in the Wisconsin Department of Justice Academy 720 curriculum framework: Academy Orientation, Fundamentals of Criminal Justice, Ethics, Cultural Competency, Agency Policy, Professional Communications, Radio Procedures, Critical Thinking, and Integration Exercises to apply learning. PREREQUISITE: 10831103 Intro to College Writing or test or waiver equivalency and 10838105 Intro to Reading Skills or test or waiver equivalency and CONDITION:105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy program requirements met

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PUBLIC SAFETY...gives the student a working knowledge of Emergency Management, Public Safety Occupations and the Incident Command System.

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

LAW ENFORCEMENT CAPSTONE...instructs students how to complete practice scenarios for Phase III Wisconsin Department of Justice 720 Academy testing. Additionally, the Phase III practical testing will occur. COREQUISITE: 10504709 Traffic Response and 10504918 Advanced Investigation

LAW ENFORCEMENT CAREER DEVELOPMENT...provides an in-depth study of the hiring process commonly used by law enforcement agencies. It also focuses on the skills that are essential to obtain and maintain employment as a police officer and prepares the student for future interviews. In addition, the course provides meaningful information about career options in the Criminal Justice field as well as options within the law enforcement field itself. CONDITION: 105046 Criminal Justice-Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy program requirements met

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PHYSICAL FITNESS PHASE 1...applies the physical fitness skills required by the Wisconsin Department of Justice 720 academy in this phase 1 course. Students will apply learning in an instructor facilitated lab with on and off campus physical fitness activities. CONDITION: 105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy

PHYSICAL FITNESS PHASE 2...applies the physical fitness skills required by the Wisconsin Department of Justice 720 academy in this phase 2 course. Students will apply learning in an instructor facilitated lab with on campus physical fitness activities. PREREQUISITE: 10504920Physical Fitness Phase 1

PHYSICAL FITNESS PHASE 3...applies the physical fitness skills required by the Wisconsin Department of Justice 720 Academy in this Phase 3 course. Students will apply learning in independent lab activities and an on campus physical fitness test/ assessment. PREREQUISITE:10504705 Advanced Tactics or 10504921 Physical Fitness Phase 2

PROFESSIONAL COMMUNICATION IN PUBLIC SAFETY...provides the learner with the fundamentals of verbal and nonverbal communications for Public Safety professions. Students will harness the skills to prepare effective field notes, prepare various uniform report forms, organize information in reports, write narratives, and analyze reports for required components.

PUBLIC SAFETY FITNESS...gives the student a basic understanding of fitness for a career in Public Safety occupations.

SPECIAL RESPONSE TACTICS...will teach the students, casualty care, tactics related to approaching, controlling, and intervening in unknown-risk and high-risk situations. PREREQUISITE: 10504711 Intermediate Patrol Response

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

TRAFFIC RESPONSE...teaches and applies the skills from the Phase 3 topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Traffic Law Enforcement - Core and Radar, Traffic Crash Investigations and Incident Management, and Operating While Intoxicated (OWI) and Standard Field Sobriety Testing (SFST), and Crimes. Student learning will occur through lecture and on campus lab activities. COREQUISITE: 10504706 Emergency Vehicle Response

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

PART-TIME • DAYS **CRIMINAL JUSTICE • LAW ENFORCEMENT 2**

Program Number 10-504-6 Associate Degree in Applied Science

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ABOUT THE PROGRAM

To serve and protect. These words define the commitment of law enforcement personnel. If you're a law-abiding individual who values honesty, order, detail, and you possess the desire and ability to work with and assist people in a variety of situations, you may want to consider dedicating yourself to an everchanging career in law enforcement.

PROGRAM OUTCOMES

- Think critically.
- Manage emergencies.
- · Communicate effectively.
- Demonstrate professionalism.
- · Interact with others.
- Demonstrate tactical skills.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc. edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee. (No felony arrest or domestic violence convictions)
- Complete the online Student Success Questionnaire.
- Complete Firearms User Background Disclosure form.
- Submit US citizenship status.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned advisor to discuss motor vehicle record, plan your first semester schedule, review your entire plan of study, and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

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CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

Credit(s) Catalog No. Class Title Term 1 (Fall 2023) 10801195 Written Communication 3 10809198 Introduction to Psychology 3 10504118 Intro to Public Safety 2

Term 2 (Spring 2024)

| 10504108 | Professional Communications in Public Safety | 1 | |
|----------|-------------------------------------------------------|---|--|
| 10801196 | Oral/Interpersonal Communications | 3 | |
| 10809122 | Introduction to American Governement OR | 3 | |
| | 10809166 Introduction to Ethics: Theory & Application | | |
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Term 3 (Fall 2024)

| 10804189 | Introductory Statistics |
|----------|------------------------------------|
| 10504170 | Public Safety Fitness |
| 10801198 | Speech |
| 10504910 | Law Enforcement Career Development |
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Term 4 (Spring 2025)

| 0504700 | Introduction to Criminal Justice |
|---------|----------------------------------|
| 0504915 | Basic Patrol Response |
| 0504916 | Basic Tactics |
| 0504703 | Basic Investigations |
| 0504920 | Physical Fitness Phase 1 |
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Term 5 (Summer 2025)

| 10504711 | Intermediate Patrol Response |
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| 10504713 | Advanced Tactics 2 |
| 10504917 | Intermediate Investigations |
| 10504712 | Advanced Tactics 1 |
| 10504921 | Physical Fitness Phase 2 |
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Term 6 (Fall 2025)

| 10504706 | Emergency Vehicle Response | 2 |
|----------|----------------------------|----------|
| 10504714 | Special Response Tactics | 1 |
| 10504171 | Advanced Patrol Techniques | 3 |
| 10504708 | Physical Fitness Phase 3 | 1 |
| 10504709 | Traffic Response | 3 |
| 10504918 | Advanced Investigations | 5 |
| 10504195 | Law Enforcement Capstone | 2 |
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ADVANCED PATROL TECHNIQUES...provides the learner with the specialized knowledge and skills to perform a Pursuit Intervention Technique (PIT) and conduct modified high risk contacts. Additionally, learners will incorporate multiple previously learned traffic concepts into scenario based applications, and learn a variety of restraint and transport procedures. COREQUISITE: 10504706 Emergency Vehicle Response

ADVANCED TACTICS 1...teaches and applies the skills from the phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy: Firearms 2. PREREQUISITE: 10504916 Basic Tactics

ADVANCED TACTICS 2...teaches and applies the skills from the phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy: Defence and Arrest Tactics (DAAT). COREQUISITE: 10504917 Intermediate Investigation

BASIC INVESTIGATIONS...teaches and applies the skills from the Phase 1 topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Constitutional Law, Crimes, Interviews, and Report Writing. Student learning will occur through lecture, on campus lab activities, and the Department of Justice 720 Academy Integration Exercises. CONDITION: 105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy program requirements met

BASIC PATROL RESPONSE...instructs students through classroom lecture, on campus lab and Wisconsin Department of Justice Integration activities. Students will learn and apply skills addressed in the following Depratment of Justice 720 academy Phase I topics: Basic Response(RESPOND), TraCS, Traffic Law Enforcement, and First Aid/ CPR/ AED.

BASIC TACTICS...instructs students in the skills from Phase I topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Defense and Arrest Tactics, Fundamentals of Firearms, Vehicle Contacts, and Officer Wellness. Student learning willoccur through: lecture, on campus lab activities, and the Department of Justice 720 Academy Integration Exercises. CONDITION: 105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy

EMERGENCY VEHICLE RESPONSE...teaches and applies the skills from the Phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Emergency Vehicle Operations and Control (EVOC) and Vehicle Contacts 2. Student learning will occur through lecture, on campus lab activities, and Wisconsin Department of Justice 720 Academy Integration Exercises. PREREQUISITE: 10504916 or 10504702 Basic Tactics

INTERMEDIATE INVESTIGATION...instructs students in the skills from the Phase II topics outlined in the WI Department of Justice 720 Academy. Topics include: Constitutional Law II and Evidence Collection. Student learning will occur through lecture and the Wisconsin Departmentof Justice 720 Academy Integration Exercises. PREREQUISITE: 10504703 Basic Investigations

INTERMEDIATE PATROL RESPONSE...teaches and applies the skills from the phase 2 topics outlined in the Wisconsin Department of Justice 720 Academy: Crisis Management, Professional Communications part 2, and Integration Exercise. PREREQUISITE: 10504915 Basic Patrol Response

INTRODUCTION TO AMERICAN GOVERNMENT...introduces American political processes and institutions. It focuses on rights and responsibilities of citizens and the process of participatory democracy. Learners examine the complexity of the separation of powers and checks and balances. Itexplores the role of the media, interest groups, political parties and public opinion in the political process. It also explores the role of state and national government in our federal system. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO CRIMINAL JUSTICE...focuses on the following phase 1 topics as addressed in the Wisconsin Department of Justice Academy 720 curriculum framework: Academy Orientation, Fundamentals of Criminal Justice, Ethics, Cultural Competency, Agency Policy, Professional Communications, Radio Procedures, Critical Thinking, and Integration Exercises to apply learning. PREREQUISITE: 10831103 Intro to College Writing or test or waiver equivalency and 10838105 Intro to Reading Skills or test or waiver equivalency and CONDITION:105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy program requirements met

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent **INTRODUCTION TO PUBLIC SAFETY**...gives the student a working knowledge of Emergency Management, Public Safety Occupations and the Incident Command System.

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

LAW ENFORCEMENT CAPSTONE...instructs students how to complete practice scenarios for Phase III Wisconsin Department of Justice 720 Academy testing. Additionally, the Phase III practical testing will occur. COREQUISITE: 10504709 Traffic Response and 10504918 Advanced Investigation

LAW ENFORCEMENT CAREER DEVELOPMENT...provides an in-depth study of the hiring process commonly used by law enforcement agencies. It also focuses on the skills that are essential to obtain and maintain employment as a police officer and prepares the student for future interviews. In addition, the course provides meaningful information about career options in the Criminal Justice field as well as options within the law enforcement field itself. CONDITION: 105046 Criminal Justice-Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy program requirements met

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PHYSICAL FITNESS PHASE 1...applies the physical fitness skills required by the Wisconsin Department of Justice 720 academy in this phase 1 course. Students will apply learning in an instructor facilitated lab with on and off campus physical fitness activities. CONDITION: 105046 Criminal Justice Law Enforcement 2 or 315047 Criminal Justice 720 Embedded Academy

PHYSICAL FITNESS PHASE 2...applies the physical fitness skills required by the Wisconsin Department of Justice 720 academy in this phase 2 course. Students will apply learning in an instructor facilitated lab with on campus physical fitness activities. PREREQUISITE: 10504920Physical Fitness Phase 1

PHYSICAL FITNESS PHASE 3...applies the physical fitness skills required by the Wisconsin Department of Justice 720 Academy in this Phase 3 course. Students will apply learning in independent lab activities and an on campus physical fitness test/ assessment. PREREQUISITE:10504705 Advanced Tactics or 10504921 Physical Fitness Phase 2

PROFESSIONAL COMMUNICATION IN PUBLIC SAFETY...provides the learner with the fundamentals of verbal and nonverbal communications for Public Safety professions. Students will harness the skills to prepare effective field notes, prepare various uniform report forms, organize information in reports, write narratives, and analyze reports for required components.

PUBLIC SAFETY FITNESS...gives the student a basic understanding of fitness for a career in Public Safety occupations.

SPECIAL RESPONSE TACTICS...will teach the students, casualty care, tactics related to approaching, controlling, and intervening in unknown-risk and high-risk situations. PREREQUISITE: 10504711 Intermediate Patrol Response

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

TRAFFIC RESPONSE...teaches and applies the skills from the Phase 3 topics outlined in the Wisconsin Department of Justice 720 Academy. Topics include: Traffic Law Enforcement - Core and Radar, Traffic Crash Investigations and Incident Management, and Operating While Intoxicated (OWI) and Standard Field Sobriety Testing (SFST), and Crimes. Student learning will occur through lecture and on campus lab activities. COREQUISITE: 10504706 Emergency Vehicle Response

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



CULINARY

ABOUT THE PROGRAM

If you are creative, enjoy the constantly evolving food service industry, work well with people, and have a love of food, LTC's Culinary Arts Program may be the best place to launch your career. Graduates of the program become chefs, independent restaurateurs, bakers or pastry chefs, sales staff for the food industry, food service managers, and corporate chefs. The program is offered at our state-of-the-art culinary and baking labs on the Cleveland campus. Students learn in a hands-on environment with small faculty-to-student ratios. The program is rich with practical experience in American regional and international cuisines. The program requires day, evening, and some Saturday hours. LTC's Culinary Arts program is accredited by the Accrediting Commission of the American Culinary Federation Education Foundation. Upon graduation, our Associate Degree graduates earn their Certified Culinarian (CC) professional credential through the American Culinary Federation Education Foundation.

PROGRAM OUTCOMES

- · Apply principles of safety and sanitation in food service operations.
- · Apply principles of nutrition.
- · Demonstrate culinary skills.
- · Manage food service operations.
- · Plan menus.
- · Analyze food service financial information.
- · Relate food service operations to sustainability.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

RELATED PROGRAMS

Culinary Arts Associate Degree

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

Program Number 31-316-1 **Technical Diploma • Four Terms**

| Catalog No. | Class Title | Credit(s) |
|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| 10109108 10109112 10316101 10316102 10316104 10801196 | Term 1 Dining Room and Beverage Service Sanitation for Food Service Product Identification and Purchasin Skill Development Introduction to Baking and Pastry Oral/Interpersonal Communication | 2 1 2 3 3 3 3 1 4 |
| 10316107 10316110 10316111 10316115 10316138 | Term 2 Introduction to Stocks, Soups and Sa Cooking Methods Garde Manger Introduction to Restaurant Operation Culinary Leadership | 3 2 |

Term 3

| 10109158 | Hospitality Cost Controls | 3 |
|----------|-----------------------------------------|----|
| 10316122 | Classic and Contemporary French Cuisine | 3 |
| 10316126 | Advanced Restaurant Operations | 2 |
| 10316117 | Advanced Patisserie and Desserts | 3 |
| | | 11 |

Term 4

| 10316121 | Advanced Garde Manger and Catering | 3 |
|----------|------------------------------------|----|
| 10316134 | Culinary Internship | 2 |
| 10316131 | Global Cuisine | 3 |
| 10316120 | Nutrition | 2 |
| | | 10 |

TOTAL 48

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ADVANCED GARDE MANGER AND CATERING...covers executing finer techniques in smaller quantities, to allow learners to explore Charcuterie items including sausages, cured and smoked meats. Compound salads, terrines, pates, canapés, and vegetable and fruit displays are covered. Presentation techniques are emphasized including ice sculpting. Safety, sanitation and cost control concepts are applied. COREQUISITE: 10316126 Adv Restaurant Operations

ADVANCED PATISSERIE AND DESSERTS ... introduces learners to new styles of pastries and desserts, per assignments and in group projects for our restaurant menu and catering events. Content will include production, preparation, plating, garnishing and display of a variety of desserts; all in conjunction with other culinary courses. Skills include buffet and plate composition, various decorating techniques and menu writing. Safety, sanitation and math concepts are applied. PREREQUISITE: 10316104 Intro to Baking

ADVANCED RESTAURANT OPERATIONS...reinforces knowledge and skills learned in Restaurant 1 to begin building on that knowledge. Various French Cuisine, Leadership and Menu Planning concepts are explored and reinforced. PREREQUISITE: 10316115 Intro to Restaurant Operations

CLASSIC AND CONTEMPORARY FRENCH CUISINE...is a more advanced course, including technique, cooking methods, French sauces, line cooking, plating, and how the practice of those skills finds relevance in the professional restaurant kitchen. Students explore the history, culture, and techniques of specific regions in France and many countries influenced by French cooking. Professional recipes are developed, field tested and applied. PREREQUISITE: 10316115 Intro to Restaurant Operations or 10316114 Culinary Practicum 2

COOKING METHODS...explores the advanced professional kitchen, covering soups, sauces and cooking methods. Content includes stock preparation, reduction techniques and a wide variety of classic soups, in addition to contemporary sauce preparation, the 5 Mother Sauces and their many derivatives. Advanced cooking methods are applied to batch and single entree preparation. Styles of plating are explored. PREREQUISITES: 10109112 Sanitation for Food Service and 10316102 Skills Dev

CULINARY INTERNSHIP ... applies program objectives and competencies under supervision in culinary settings, preparing foods that are cooked to order. Activities may include day, evening, and weekend requirements. Students enhance the learning experience through journal writing and other written assignments. A final program portfolio is required per rubric. COREQUISITES: 10316121 Advanced Garde Manager and Catering and 10316131 Global Cuisine and instructor verification of eligibility

CULINARY LEADERSHIP ... includes review and application of industry-specific skills needed to master the effective management of a profitable and efficient culinary operation. Includes recipe and product development, menu scripting, time management, principles of leadership, staff motivation, developing a community of excellence, staff scheduling, writing a business plan, developing standard operating procedures, resume and portfolio development, professional development planning, interviewing and public speaking skills.

DINING ROOM AND BEVERAGE SERVICE...introduces learners to dining room and beverage service including wine, spirits, beer, mixology, and non-alcoholic drinks. Helps learners refine their customer service and meal delivery skills through the study and application of proper, customer-oriented dining room service environments including etiquette, dining room safety, set-up, American and French table service, and menu knowledge skills. Concepts include histories of table service, psychology of the customer, and service sequence.

GARDE MANGER...includes basic concepts of timing, seasoning and fine garnishing. Focus is placed upon the preparation and plating of appetizers and hors d'oeuvre, salads, vegetables, fruits, dressings, garnishing and displays. The learner will participate in a variety of class projects and catering assignments. Teamwork, communication skills, sanitation, safety, cost control, professionalism are emphasized. PREREQUISITE: 10316101 Product ID and Purchasing

GLOBAL CUISINE ... applies skills and methods to production, seasoning, cooking techniques, plate presentation and speed while exploring Central and Eastern Europe, Mediterranean, and Italian cuisines, along with cuisines of the Orient, the Pacific Rim, Latin America, Mexico, India, Caribbean Islands, and Sub-Saharian Africa. Student creativity is emphasized along with all ACF standards of professionalism. Safety, sanitation, and cost control concepts are applied. PREREQUISITE: 10316125 Culinary Pract 3 or 10316126 Adv Restaurant Operations

HOSPITALITY COST CONTROLS ... applies concepts of controlling costs with emphasis on cost-to-sales relationship. Students calculate the costs of goods, selling price and relative percentages, forecast sales, conduct yield analysis and calculate break-even periods.

INTRODUCTION TO BAKING AND PASTRY ... introduces learners to the principles and techniques used in the preparation of high-quality baked goods and pastries. Students develop skills in breads, muffins, biscuits, custards, pies, cakes, pastries and specialized desserts. Skills include creaming, blending, meringues, straight dough, custards and frozen desserts. Safety, sanitation and cost control concepts are applied.

INTRODUCTION TO RESTAURANT OPERATIONS...introduces the learner to functioning in a professional environment. Students will maintain a commercial kitchen and will work together as a team to apply the fundamentals introduced in previous courses, executing preparation techniques and cooking methods with an "a la minute" and service mindset. Students will also explore and develop a range of menus, menu styles, and categories that are employed in the various business segments of the food service industry. PREREQUISITE: 10316102 Skills Development

INTRODUCTION TO STOCKS, SOUPS, AND SAUCES ... continues with fundamental principles of classic stocks, soups, and hot and cold sauces. The traditional mother and small sauces are covered. Stabilizing and thickening methods include roux, beurre manie, arrowroot, and puree, reduction, and emulsion techniques. Students practice in the use of tools, utensils, and equipment emphasizing safety and sanitation. CONDITION: 103161 or 103161Z Culinary Arts or 313161 or 313161Z Culinary technical diploma program requirements met and PREREQUISITE: 10316102 Skill Development

NUTRITION ... introduces the learner to basic nutritional principles. This course will prepare students to apply nutritional concepts in a professional, culinary environment with a focus on the seven nutrients and their characteristics, various populations and meeting their nutritional needs, flavor development, menu planning, and recipe modification. Students will also explore current nutritional issues within the culinary field and within our communities.

ORAL/INTERPERSONAL COMMUNICATION ... provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PRODUCT IDENTIFICATION AND PURCHASING...through identification, the study of origins and seasonality, discussion of quality, use, safe handling and fabrication, learners will explore vegetables, seafood, meats, fruits, herbs, spices, oils, vinegar and the nature of taste and flavor. The USDA grading system and butchery concepts are included. Safety, sanitation and cost control concepts are applied.

SANITATION FOR FOOD SERVICE...provides face to face food safety training, testing and materials to food service managers. The Serv Safe Manager certification test is included and a passing score earns the Serv Safe Food Protection Manager Certification

SKILLS DEVELOPMENT ... explores the advanced professional kitchen, covering soups, sauces and cooking methods. Content includes stock preparation, reduction techniques and a wide variety of classic soups, in addition to contemporary sauce preparation, the 5 Mother Sauces and their many derivatives. Advanced cooking methods are applied to batch and single entree preparation. Styles of plating are explored. CONDITION: 103161 Culinary Arts or 313161 Culinary Technical diploma or 303162 Culinary and Baking Basics technical diploma program requirements met

gotoltc.edu 1290 North Avenue, Cleveland, WI 53015 1.888.GO TO LTC HLC Accredited hlcommission.org LAKESHORE TECHNICAL COLLEGE DOES NOT DISCRIMINATE AGAINST PROTECTED CLASSES, INCLUDING BUT NOT LIMITED TO RACE, COLOR, NATIONAL ORIGIN, RELIGION, SEX, OR GENDER – INCLUDING SEXUAL ORIENTATION, GENDER IDENTITY, GENDER EXPRESSION, DISABILITY OR AGE IN EMPLOYMENT, ADMISSIONS, OR ITS PROGRAMS OR ACTIVITIES. TO HANDLE INQUIRIES REGARDING LAKESHORE'S NONDISCRIMINATION POLICIES, CONTACT MGR-ACCESS, EQUITY, & INCLUSION (STUDENTS) 920.693.1120, NICOLE, YANG@GOTOLTC.EDU / EXECUTIVE DIRECTOR OF HUMAN RESOURCES (STAFF/OTHERS) 920.693.1139. MARISSA.HOLST@GOTOLTC.EDU. 1290 NORTH AVENUE. CLEVELAND. WI 53015. TTY 711 GOTOLTC.EDU/EQUAL-OPPORTUNITY-STATEMENT



CULINARY ARTS

Program Number 10-316-1 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

If you are creative, enjoy the constantly evolving food service industry, work well with people, and have a love of food, LTC's Culinary Arts Program may be the best place to launch your career. Graduates of the program become chefs, independent restaurateurs, bakers or pastry chefs, sales staff for the food industry, food service managers, and corporate chefs. The program is offered at our state-of-the-art culinary and baking labs on the Cleveland campus. Students learn in a hands-on environment with small faculty-to-student ratios. The program is rich with practical experience in American regional and international cuisines. The program requires day, evening, and some Saturday hours. LTC's Culinary Arts program is accredited by the Accrediting Commission of the American Culinary Federation Education Foundation. Upon graduation, our Associate Degree graduates earn their Certified Culinarian (CC) professional credential through the American Culinary Federation Education Foundation.

PROGRAM OUTCOMES

- · Apply principles of safety and sanitation in food service operations.
- · Apply principles of nutrition.
- · Demonstrate culinary skills.
- · Manage food service operations.
- · Plan menus.
- · Analyze food service financial information.
- · Relate food service operations to sustainability.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

Catalog No. Class Title Credit(s) Term 1 10109112 Sanitation for Food Service 1 10109108 Dining Room and Beverage Service 2 10316101 Product Identification and Purchasing 2 3 10316102 Skills Development Introduction to Baking and Pastry 3 10316104 Oral/Interpersonal Communication 3 10801196 14

Term 2

| 10316107 | Introduction to Stocks, Soups and Sauces | 2 |
|----------|------------------------------------------|----|
| 10316110 | Cooking Methods | 3 |
| 10316111 | Garde Manger | 2 |
| 10316115 | Introduction to Restaurant Operations | 3 |
| 10316138 | Culinary Leadership | 3 |
| 10809172 | Introduction to Diversity Studies | 3 |
| | | 16 |

Term 3

| 10109158 | Hospitality Cost Controls | 3 |
|----------|------------------------------------------|----|
| 10316122 | Classic and Contemporary French Cuisine | 3 |
| 10316126 | Advanced Restaurant Operations | 2 |
| 10316117 | Advanced Patisserie and Desserts | 3 |
| 10806112 | Principles of Sustainability OR 10804123 | 3 |
| | Math with Business Applications | |
| | | 14 |

Term 4

| 10316121 | Advanced Garde Manger and Catering | 3 |
|----------|------------------------------------|----|
| 10316134 | Culinary Internship | 2 |
| 10316131 | Global Cuisine | 3 |
| 10316120 | Nutrition | 2 |
| 10801195 | Written Communications | 3 |
| 10809198 | Introduction to Psychology | 3 |
| | | 16 |

TOTAL 60

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ADVANCED GARDE MANGER AND CATERING...covers executing finer techniques in smaller quantities, to allow learners to explore Charcuterie items including sausages, cured and smoked meats. Compound salads, terrines, pates, canapés, and vegetable and fruit displays are covered. Presentation techniques are emphasized including ice sculpting. Safety, sanitation and cost control concepts are applied. COREQUISITE: 10316126 Advanced Restaurant Operations

ADVANCED PATISSERIE AND DESSERTS...introduces learners to new styles of pastries and desserts, per assignments and in group projects for our restaurant menu and catering events. Content will include production, preparation, plating, garnishing and display of a variety of desserts;all in conjunction with other culinary courses. Skills include buffet and plate composition, various decorating techniques and menu writing. Safety, sanitation and math concepts are applied. PREREQUISITE: 10316104 Intro to Baking

ADVANCED RESTAURANT OPERATIONS...reinforces knowledge and skills learned in Restaurant 1 to begin building on that knowledge. Various French Cuisine, Leadership and Menu Planning concepts are explored and reinforced. PREREQUISITE: 10316115 Intro to Restaurant Operations

CLASSIC AND CONTEMPORARY FRENCH CUISINE...a more advanced course, including technique, cooking methods, French sauces, line cooking, plating, and how the practice of those skills finds relevance in the professional restaurant kitchen. Students explore the history, culture, and techniques of specific regions in France and many countries influenced by French cooking. Professional recipes are developed, field tested and applied. PREREQUISITE: 10316115 Intro to Restaurant Oper or 10316114 Culinary Pract 2

COOKING METHODS...explores the advanced professional kitchen, covering soups, sauces and cooking methods. Content includes stock preparation, reduction techniques and a wide variety of classic soups, in addition to contemporary sauce preparation, the 5 Mother Sauces and their many derivatives. Advanced cooking methods are applied to batch and single entree preparation. Styles of plating are explored. PREREQUISITES: 10109112 Sanitation for Food Service and 10316102 Skills Development

CULINARY INTERNSHIP...applies program objectives and competencies under supervision in culinary settings, preparing foods that are cooked to order. Activities may include day, evening, and weekend requirements. Students enhance the learning experience through journal writing and other written assignments. A final program portfolio is required per rubric. COREQUISITES: 10316121 Advanced Garde Manager and Catering and 10316131 Global Cuisine and instructor verification of eligibility

CULINARY LEADERSHIP...includes review and application of industry-specific skills needed to master the effective management of a profitable and efficient culinary operation. Includes recipe and product development, menu scripting, time management, principles of leadership, staff motivation, developing a community of excellence, staff scheduling, writing a business plan, developing standard operating procedures, resume and portfolio development, professional development planning, interviewing and public speaking skills.

DINING ROOM AND BEVERAGE SERVICE...introduces learners to dining room and beverage service including wine, spirits, beer, mixology, and non-alcoholic drinks. Helps refine customer service and meal delivery skills through the study and application of proper, customer-oriented dining room service environments including etiquette, dining room safety, set-up, American and French table service, and menu knowledge skills. Concepts include histories of table service, psychology of the customer, and service sequence.

GARDE MANGER...includes basic concepts of timing, seasoning and fine garnishing. Focus is placed upon the preparation and plating of appetizers and hors d'oeuvre, salads, vegetables, fruits, dressings, garnishing and displays. The learner will participate in a variety of class projects and catering assignments. Teamwork, communication skills, sanitation, safety, cost control, professionalism are emphasized. PREREQUISITE: 10316101 Product ID and Purchasing

GLOBAL CUISINE...applies skills and methods to production, seasoning, cooking techniques, plate presentation and speed while exploring Central & Eastern Europe, Mediterranean, and Italian cuisines, along with cuisines of the Orient, the Pacific Rim, Latin America, Mexico, India, Caribbean Islands, and Sub-Saharian Africa. Creativity is emphasized along with all ACF standards of professionalism. Safety, sanitation, and cost control concepts are applied. PREREQUISITE: 10316125 Culinary Pract 3 or 10316126 Adv Rest Oper

HOSPITALITY COST CONTROLS...applies concepts of controlling costs with emphasis on cost-to-sales relationship. Calculate the costs of goods, selling price and relative percentages, forecast sales, conduct yield analysis and calculate break-even periods.

INTRODUCTION TO BAKING AND PASTRY...introduces learners to the principles and techniques used in the preparation of high-quality baked goods and pastries. Students develop skills in breads, muffins, biscuits, custards, pies, cakes, pastries and specialized desserts. Skills include creaming, blending, meringues, straight dough, custards and frozen desserts. Safety, sanitation and cost control concepts are applied. **INTRODUCTION TO DIVERSITY STUDIES**...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: 10838105 Intro Rdg & Study Skills or Rdg plcmnt assmnt equiv

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of multiple aspects of human behavior. Involves a survey of the theoretical foundations of human functioning in areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. Directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO RESTAURANT OPERATIONS...introduces the learner to functioning in a professional environment. Students will maintain a commercial kitchen and will work together as a team to apply the fundamentals introduced in previous courses, executing preparation techniques and cooking methods with an "a la minute" and service mindset. Students will also explore and develop a range of menus, menu styles, and categories that are employed in the various business segments of the food service industry. PREREQUISITE: 10316102 Skills Development

INTRODUCTION TO STOCKS, SOUPS, AND SAUCES...continues with fundamental principles of classic stocks, soups, and hot and cold sauces. The traditional mother and small sauces are covered. Stabilizing and thickening methods include roux, beurre manie, arrowroot, and puree, reduction, and emulsion techniques. Students practice in the use of tools, utensils, and equipment emphasizing safety and sanitation. CONDITION: 103161 or 103161Z Culinary Arts or 313161 or 313161Z Culinary Technical Diploma program requirements met and PREREQUISITE: 10316102 Skill Development

NUTRITION...introduces the learner to basic nutritional principles. This course will prepare students to apply nutritional concepts in a professional, culinary environment with a focus on the seven nutrients and their characteristics, various populations and meeting their nutritional needs, flavor development, menu planning, and recipe modification. Students will also explore current nutritional issues within the culinary field and within our communities.

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PRINCIPLES OF SUSTAINABILITY...prepares students to develop sustainable literacy, analyze interconnections among physical and biological sciences and environmental systems, summarize effects of sustainability on health and well-being, analyze connections among social, economic, and environmental systems, employ energy conservation strategies to reduce use of fossil fuels, investigate alternative energy options, evaluate options to current waste disposal/recycling in the U.S., and analyze approaches used by your community. COREQUISITE: Reading placement assessment or equivalent

PRODUCT IDENTIFICATION AND PURCHASING...through identification, the study of origins and seasonality, discussion of quality, use, safe handling and fabrication, learners will explore vegetables, seafood, meats, fruits, herbs, spices, oils, vinegar and the nature of taste and flavor. The USDA grading system and butchery concepts are included. Safety, sanitation and cost control concepts are applied.

SANITATION FOR FOOD SERVICE...provides face to face food safety training, testing and materials to food service managers. The Serv Safe Manager certification test is included and a passing score earns the Serv Safe Food Protection Manager Certification.

SKILLS DEVELOPMENT...explores the advanced professional kitchen, covering soups, sauces and cooking methods. Content includes stock preparation, reduction techniques and a wide variety of classic soups, in addition to contemporary sauce preparation, the 5 Mother Sauces and their many derivatives. Advanced cooking methods are applied to batch and single entree preparation. Styles of plating are explored. CONDITION: 103161 Culinary Arts or 313161 Culinary Technical Diploma or 303162 Culinary and Baking Basics Technical Diploma program requirements met

WRITTEN COMMUNICATION...teaches writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



CULINARY AND BAKING BASICS

Program Number 30-316-2 Technical Diploma • One Term

ABOUT THE PROGRAM

The Culinary and Baking Basics Technical Diploma provides an introduction to the growing Baking industry and prepares the learner for an entry-level position in the baking and food service industry. Students will learn the principles and techniques used in the preparation of high-quality baked goods and pastries, maintain sanitation standards and work with diverse food inventories.

PROGRAM OUTCOMES

- · Apply principles of safety and sanitation in food service operations.
- · Apply principles of nutrition.
- · Demonstrate culinary skills.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu Catalog No. Class Title

Term 1

| 10316101 | Product Identification and Purchasing | 2 |
|----------|---------------------------------------|---|
| 10316102 | Skills Development | 3 |
| 10316104 | Introduction to Baking and Pastry | 3 |
| 10109112 | Sanitation | 1 |
| | | |

TOTAL 9

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

INTRODUCTION TO BAKING AND PASTRY...introduces learners to the principles and techniques used in the preparation of high-quality baked goods and pastries. Students develop skills in breads, muffins, biscuits, custards, pies, cakes, pastries and specialized desserts. Skills include crearning, blending, meringues, straight dough, custards and frozen desserts. Safety, sanitation and cost control concepts are applied.

PRODUCT IDENTIFICATION AND PURCHASING...through identification, the study of origins and seasonality, discussion of quality, use, safe handling and fabrication, learners will explore vegetables, seafood, meats, fruits, herbs, spices, oils, vinegar and the nature of taste and flavor. The USDA grading system and butchery concepts are included. Safety, sanitation and cost control concepts are applied.

SANITATION FOR FOOD SERVICE...provides face to face food safety training, testing and materials to food service managers. The Serv Safe Manager certification test is included and a passing score earns the Serv Safe Food Protection Manager Certification.

SKILLS DEVELOPMENT...explores the advanced professional kitchen, covering soups, sauces and cooking methods. Content includes stock preparation, reduction techniques and a wide variety of classic soups, in addition to contemporary sauce preparation, the 5 Mother Sauces and their many derivatives. Advanced cooking methods are applied to batch and single entree preparation. Styles of plating are explored. CONDITION: 103161 Culinary Arts or 313161 Culinary Technical Diploma or 303162 Culinary and Baking Basics Technical Diploma program requirements met



DAIRY BUSINESS MANAGEMENT

Program Number 10-090-6 Associate Degree in Applied Science • Varies

ABOUT THE PROGRAM

Develop the skills for success in the dairy industry with goals such as directly owning or managing a dairy farm or employment in one of the many supportive fields of the dairy industry. This program is perfect for those already working within the dairy community who are seeking to grow their knowledge; and it is great for those entering the dairy industry. Students participate in hands-on learning with various dairy operations as they develop solid herdsperson skills, proper management, and the ability to utilize technology to improve animal welfare and production. Students gain a solid understanding of how to run an efficient and profitable business operation.

PROGRAM OUTCOMES

- Manage herd nutrition.
- Manage herd reproduction.
- · Manage herd health.
- · Demonstrate farm and herd record management.
- Develop a business and transition plan.
- · Apply economic and marketing strategies.
- · Manage farm financials.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Ensure enrolled in or graduate of Dairy Herd Management program.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

To experience technology and demonstrations in industry, students are required to have transportation and participate throughout the year. Students have the opportunity to join PAS (Professional Agriculture Students) and participate in competitions and activities. Terms 1 and 2 of this curriculum completes the Dairy Herd Management technical diploma. The Term 3 and 4 class schedule is provided in the iFlex format, which allows you to take courses online, face-to-face, or flex between the two. To participate synchronously in class using videoconferencing software, a minimum of 5Mb as well as audio and visual capabilities on your computer is required. Program students are eligible to be issued an LTC laptop while learning and applying the software applications. Online classes have the same expectations for completing labs, technology exploration, and demonstrations.

If you have completed the Agribusiness Science & Technology degree and wish to pursue this degree, you have completed some Term 1 and 2 course equivalents. Please work with your counselor to apply these dual credits.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | . Proposed Courses | Credit(s) |
|----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|
| 10091102 10091103 | Term 1 Dairy Cattle Management Dairy Reproductive Management OF 10006124 Principles of Animal Breeding (3 cr) AND 10091135 Dairy | |
| 10091115 10091104 10091117 10804123 | Cattle Al Training (1 cr) Nutrition Principles - Dairy On-Farm Internship 1 Animal Records - Dairy Math with Business Applications | 3 1 1 3 14 |

Term 2

1 1

1

1

1

1

| 10091105 | Dairy Feeding Management | 3 |
|----------|----------------------------------------|----|
| 10091106 | Dairy Management Applications | 3 |
| | OR 10006141 Livestock Production | |
| | Systems (3 cr) & 10091119 Dairy Mgmt | |
| | Site Farm Exp. (1 cr) | |
| 10091107 | Dairy Employability and Management | 2 |
| 10091121 | Alternative Dairy Systems Technologies | 1 |
| 10091108 | Quality Milk Production | 3 |
| 10091109 | On-Farm Internship 2 | 1 |
| 10091113 | Dairy Issues and Advocacy | 1 |
| | | 14 |

Term 3

| 10006112 | Farm Business Management | 3 |
|----------|----------------------------------|----|
| 10000112 | Failli busilless Mallayellell | 3 |
| 10006146 | Precision Ag Technologies | 3 |
| 10809144 | Macroeconomics | 3 |
| 10809198 | Intro to Psychology | 3 |
| 10801196 | Oral/Interpersonal Communication | 3 |
| | | 15 |

Term 4

| 0006122 | Principles of Crop Production | 3 |
|---------|-------------------------------|----|
| 0006130 | Ag Commodity Marketing | 3 |
| 0006140 | Legal Aspects of Agribusiness | 3 |
| 0006110 | Ag Finance & Accounting | 3 |
| 0006128 | Agribusiness Internship | 2 |
| 0801136 | English Composition 1 | 3 |
| | | 17 |

TOTAL 60

Curriculum and program acceptance requirements are subject to change. Program start dates vary: check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

AGRIBUSINESS INTERNSHIP...provides the student the opportunity to choose from a broad variety of occupational experiences in the agribusiness industry. Student will work with faculty to develop a plan and to identify, coordinate, and evaluate workassociated learning experiences as they relate to the major career focus of the student. PREREQUISITE: 10006112 Farm Business Mng and COREQUISITES: 10006122 Prin of Crop Production, 10006124 Prin of Animal Breeding or 10091103 Dairy Reproductive Mng

AGRICULTURAL COMMODITY MARKETING...provides student with the fundamentals of agricultural commodity marketing including risk management, futures market structure and function, futures commodity contract specification, as well as futures trading procedures and strategies including hedging and options. Students will engage in practice commodity marketing using a real world simulator and follow commodity markets and determine sources of variability affecting the futures prices. PREREQ: 10006126 Agribusiness Economics or 10006135 Agriculture Business Acctg

AGRICULTURAL FINANCE AND ACCOUNTING...introduces the learner to the basics of agricultural financial management including securing credit, working with financial statements (balance sheet, income statement, cash flows, owner equity) and investment analysis. Additionally, students willperform basic financial analysis, calculate depreciation, and prepare amortization schedules. Students will learn the basics of agricultural accounting and will practice using basic accounting software programs. PREREQUISITE: 10006112 Farm BusinessManagement or CONDITION: 310011 Horticulture Technician and COREQUISITE: 10804123 Math with Business Apps

ALTERNATIVE DAIRY SYSTEMS TECHNOLOGY...exposes students to emerging technologies, processes, systems, and trends used in any aspect of dairy farming including, but not limited to, the use of robotics, animal health monitoring systems, feeding systems, manure handling, record systems, milking systems, young animal care, dairy product processing, and marketing. Experiences include demonstrations and visits to farms and agricultural businesses. Students are required to drive or have appropriate transportation to attend these labs.

ANIMAL RECORDS - DAIRY...introduces learner to records management through hands-on applications including the set-up and use of computerized record-keeping software, completion of sample farm record problems utilizing computerized recordkeeping systems, as well as the selection and implementation of various computerized record programs. Software tools, such as PCDART, CowManager, and DairyCOMP 305, will be utilized. COREQUISITE: 10091103 Dairy Reproductive Management

DAIRY CATTLE MANAGEMENT...introduces the student to herd health and preventative medicine through understanding cow behavior, signs of illness, metabolic disorders, infectious disease, vaccination programs, and herd records to develop and implement a herd-health protocol. Students will learn and use basic tools and equipment of herd health program, and will earn the Dairy Care 365 Certificate.

DAIRY EMPLOYABILITY AND MANAGEMENT...prepares students to be employees and/or managers on the dairy farm setting. Students will learn about setting goals to reach dairy industry benchmarks and develop appropriate dairy farm management and conflict-resolution skills through the UWEX Employer of Choice training. Team-building activities, mock interviews, and job shadowing will develop skills necessary for successful employment. Students will gather and organize all pieces of their portfolio upon completion of the program.

DAIRY FEEDING MANAGEMENT...provides the student with proper harvesting and storage practices to ensure the best forage for the cow's diet. Students will learn diet specifications for each step of the cow's life cycle, ration formulations, developing feed inventories, and maximizing resource allocations. PREREQUISITE: 10091115 Nutrition Principles - Dairy or 10006144 Nutrition Principles

DAIRY ISSUES AND ADVOCACY...prepares students to be advocates for the dairy industry. With agriculture becoming more publicized and scrutinized every day, students will learn how to promote and apply these concepts within the industry. Students will learn the skills to talk and respond to dairy farm issues that the industry faces.

DAIRY MANAGEMENT APPLICATIONS ... provides students with information to build protocols for dairy farm management. Students will learn about the proper environment, health protocols, and the care of cows in each part of their life cycle. Dairy Beef Quality Assurance and the F.A.R.M. programs will also be utilized. One-on-one rotations to selected site farms allow students to learn and practice troubleshooting and problem-solving on the farm. COREQUISITE: 10091102 Dairy Cattle Management

DAIRY REPRODUCTIVE MANAGEMENT...prepares participants for the mating and breeding of the dairy herd. Topics include linear evaluation, selection indexes, anatomy, hormonal cycles, artificial insemination, estrus detection, activity monitors, and genomics. Live cattle for artificial insemination practices are featured.

ENGLISH COMPOSITION 1...designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing and revising are applied through a variety of activities. Students will analyze audience and purpose, use elements of research, and format documents using standard guidelines. Develop critical reading skills through analysis of various written documents. COREQUISITE: Writing placement assmt or equiv AND Reading placement assmt or equiv FARM BUSINESS MANAGEMENT...provides learner with basic business management practices including the development of a business plan, establishment of short and long range goals, identification and implementation alternatives for reaching goals, and development of strategiesto monitor progress. The importance of designing a business mission statement based on goals is emphasized.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

LEGAL ASPECTS OF AGRIBUSINESS...provides students with pertinent information of the legal liabilities and regulations of an agribusiness at the state and federal levels. Course content includes legal descriptions, contractual agreements, employee and consumer rights, insurance, debt collection, as well as bankruptcy and employment protection issues as regulated by DOL, OSHA and DWD. COREQUISITE: 10006130 Ag Commodity Marketing

MACROECONOMICS...is an introductory course. Basic social choices regarding economic systems, basic economic aggregates, fiscal policy, the banking system, monetary policy, and international trade are the principle topics discussed in the course. Balance is drawn between theory, analysis, and a critique of the institutions that characterize modern mixed-capitalist economies. Conflicting social goals, economic constraints, and environmental concerns provide the framework through which the macroeconomy is analyzed. COREQUISITE: Reading placement assessment or equiv

MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

NUTRITION PRINCIPLES - DAIRY...instructs students in utilizing basic nutrition skills to analyze rations and complete basic ration formulations. This course introduces the principles of nutrition as presented on a comparative species basis including characteristics, physiological functions, interrelationships, and deficiency symptoms as they pertain to carbohydrates, fats, proteins, mineral elements, and vitamins. COREQUISITE: 10804123 Math w Business Apps or 31804123 Math w Business Apps

ON-FARM INTERNSHIP 1...provides the student with the ability and skills to perform industry expectations as a dairy herdsperson, including milking, feeding, calf care, scheduling, employer/employee communications, and general farm duties. Students work with their internship farm to complete the internship skills checklist. COREQUISITE: 10091115 Nutrition Principles-Dairy

ON-FARM INTERNSHIP 2...provides the student with enhanced skills, beyond the On-Farm Internship 1 course, to perform industry expectations as a dairy herdsperson, including milking, feeding, calf care, scheduling, employer/employee communications, and general farm duties. Students work with their internship farm to complete the internship skills checklist. PREREQUISITE: 10091104 On-Farm Internship 1

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PRECISION AG TECHNOLOGIES...provides experiences to the student in agricultural precision technologies including bio-technologies, application industries, livestock equipment, precision farming, financial resource management, plant protection, sustainable agriculture, environmental impacts of agriculture, agricultural workforce, and agricultural production. To experience precision technology and demonstrations throughout the industry, students are required to drive or have appropriate transportation to attend labs.

PRINCIPLES OF CROP PRODUCTION...provides knowledge of crop and soil nutrient management, including use of both commercial fertilizers and manure. Course topics include purchase or lease options for land, agronomy consulting programs, tillage and conservation plans, soil nutrient plans, cropping plans, managing nutrient waste, crop harvest and storage and production records. PREREQUISITE: 10006116 Intro to Soil Science or 10091105 Dairy Feeding Management

QUALITY MILK PRODUCTION...introduces the student to the process of how milk is produced and how to harvest it for a maximum profit to the farmer, including the major principles of milk secretion, the anatomy and physiology of the udder, milk letdown, proper milking practices, mastilis, efficient milking systems, and how to properly milk cows as well as treat and prevent udder infections.



DAIRY HERD MANAGEMENT

Program Number 31-091-1 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

If your goal is to become a successful dairy herdsperson, employee, or owner, this program provides a foundation of knowledge and skills to manage dairy cattle and to navigate the ever-changing dairy industry. Students participate in handson learning with various dairy operations as they develop solid herdsperson skills, proper management techniques, employability skills, and the ability to utilize technology to improve animal welfare and production. Courses focus on practical dairy applications, such as feeding, milk production, reproductive programs, animal records, communications, and employability.

PROGRAM OUTCOMES

- · Manage herd nutrition.
- Manage herd reproduction.
- · Manage herd health.
- · Demonstrate farm and herd record management.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Each student will be assigned to a farm for supervised, on-the-job training. An internship agreement will be completed and signed by both the student and farm representative. Students will complete an on-farm placement survey. Students of LTC's Dairy Herd Management program are eligible to receive national Artificial Insemination certification. To experience technology and demonstrations in industry, students are required to have transportation and participate in these lab activities throughout the year. Program students also have the opportunity to join PAS (Professional Agriculture Students) Organization and participate in their competitions and activities.

If you would like an associate degree focusing on dairy business operations, the Dairy Business Management program may be your choice. Graduates of this Dairy Herd Management technical diploma attend an additional year of agribusiness classes to achieve this associate degree focusing on Dairy Business Management.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

Term 1 10091102 Dairy Cattle Management 3 10091103 Dairy Reproductive Management* 3 Nutrition Principles - Dairy 3 10091115 10091104 On-Farm Internship 1 1 10091117 Animal Records - Dairy 1 10804123 Math with Business Applications 3 14

Term 2

Catalog No. Class Title

| 10091105 | Dairy Feeding Management | 3 |
|----------|----------------------------------------|----|
| 10091106 | Dairy Management Applications** | 3 |
| 10091107 | Dairy Employability and Management | 2 |
| 10091121 | Alternative Dairy Systems Technologies | 1 |
| 10091108 | Quality Milk Production | 3 |
| 10091109 | On-Farm Internship 2 | 1 |
| 10091113 | Dairy Issues and Advocacy | 1 |
| | | 14 |

TOTAL 28

Credit(s)

Note: Agribusiness Science & Technology should substitute these two 1-credit classes:

*10091135 Dairy Cattle AI Training (1 cr) **10091119 Dairy Mgmt Site Farm Experience (1 cr) ANIMAL RECORDS - DAIRY...introduces learner to records management through hands-on applications including the set-up and use of computerized record-keeping software, completion of sample farm record problems utilizing computerized recordkeeping systems, as well as the selection and implementation of various computerized record programs. Software tools, such as PCDART, CowManager, and DairyCOMP 305, will be utilized. COREQUISITE: 10091103 Dairy Reproductive Management

DAIRY CATTLE MANAGEMENT...introduces the student to herd health and preventative medicine through understanding cow behavior, signs of illness, metabolic disorders, infectious disease, vaccination programs, and herd records to develop and implement a herd-health protocol. Students will learn and use basic tools and equipment of herd health program, and will earn the Dairy Care 365 Certificate.

DAIRY EMPLOYABILITY AND MANAGEMENT...prepares students to be employees and/or managers on the dairy farm setting. Students will learn about setting goals to reach dairy industry benchmarks and develop appropriate dairy farm management and conflict-resolution skills through the UWEX Employer of Choice training. Team-building activities, mock interviews, and job shadowing will develop skills necessary for successful employment. Students will gather and organize all pieces of their portfolio upon completion of the program.

DAIRY FEEDING MANAGEMENT...provides the student with proper harvesting and storage practices to ensure the best forage for the cow's diet. Students will learn diet specifications for each step of the cow's life cycle, ration formulations, developing feed inventories, and maximizing resource allocations. PREREQUISITE: 10091115 Nutrition Principles - Dairy or 10006144 Nutrition Principles

DAIRY ISSUES AND ADVOCACY...prepares students to be advocates for the dairy industry. With agriculture becoming more publicized and scrutinized every day, students will learn how to promote and apply these concepts within the industry. Students will learn the skills to talk and respond to dairy farm issues that the industry faces.

DAIRY MANAGEMENT APPLICATIONS...provides students with information to build protocols for dairy farm management. Students will learn about the proper environment, health protocols, and the care of cows in each part of their life cycle. Dairy Beef Quality Assurance and the F.A.R.M. programs will also be utilized. One-on-one rotations to selected site farms allow students to learn and practice troubleshooting and problem-solving on the farm. COREQUISITE: 10091102 Dairy Cattle Management

DAIRY REPRODUCTIVE MANAGEMENT...prepares participants for the mating and breeding of the dairy herd. Topics include linear evaluation, selection indexes, anatomy, hormonal cycles, artificial insemination, estrus detection, activity monitors, and genomics. Live cattle for artificial insemination practices are featured.

MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. PREREQUISITE: 10834109 Pre-Algebra or Math placement assessment equivalent and COREQUISITE: 10838105 Intro to Reading and Study Skills or Reading placement assessment equivalent

NUTRITION PRINCIPLES - DAIRY...instructs students in utilizing basic nutrition skills to analyze rations and complete basic ration formulations. This course introduces the principles of nutrition as presented on a comparative species basis including characteristics, physiological functions, interrelationships, and deficiency symptoms as they pertain to carbohydrates, fats, proteins, mineral elements, and vitamins. COREQUISITE: 10804123 Math w Business Apps or 31804123 Math w Business Apps

ON-FARM INTERNSHIP 1...provides the student with the ability and skills to perform industry expectations as a dairy herdsperson, including milking, feeding, calf care, scheduling, employer/employee communications, and general farm duties. Students work with their internship farm to complete the internship skills checklist. COREQUISITE: 10091115 Nutrition Principles-Dairy

ON-FARM INTERNSHIP 2... provides the student with enhanced skills, beyond the On-Farm Internship 1 course, to perform industry expectations as a dairy herdsperson, including milking, feeding, calf care, scheduling, employer/employee communications, and general farm duties. Students work with their internship farm to complete the internship skills checklist. PREREQUSITE: 10091104 On-Farm Internship 1

QUALITY MILK PRODUCTION...introduces the student to the process of how milk is produced and how to harvest it for a maximum profit to the farmer, including the major principles of milk secretion, the anatomy and physiology of the udder, milk letdown, proper milking practices, mastitis, efficient milking systems, and how to properly milk cows as well as treat and prevent udder infections.



PART-TIME • DAYS • 4 TERMS DAIRY HERD MANAGEMENT

Program Number 31-091-1 **Technical Diploma**

ABOUT THE PROGRAM

If your goal is to become a successful dairy herdsperson, employee, or owner, this program provides a foundation of knowledge and skills to manage dairy cattle and to navigate the ever-changing dairy industry. Students participate in hands-on learning with various dairy operations as they develop solid herdsperson skills, proper management techniques, employability skills, and the ability to utilize technology to improve animal welfare and production. Courses focus on practical dairy applications, such as feeding, milk production, reproductive programs, animal records, communications, and employability.

PROGRAM OUTCOMES

- · Manage herd nutrition.
- Manage herd reproduction.
- Manage herd health.
- · Demonstrate farm and herd record management.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Each student will be assigned to a farm for supervised, on-the-job training. An internship agreement will be completed and signed by both the student and farm representative. Students will complete an on-farm placement survey. Students will complete an on-farm placement survey. Students of LTC's Dairy Herd Management program are eligible to receive national Artificial Insemination certification. To experience technology and demonstrations in industry, students are required to have transportation and participate in these lab activities throughout the year. Program students also have the opportunity to join PAS (Professional Agriculture Students) Organization and participate in their competitions and activities.

If you would like an associate degree focusing on dairy business operations, the Dairy Business Management program may be your choice. Graduates of this Dairy Herd Management technical diploma attend an additional year of agribusiness classes to achieve this associate degree focusing on Dairy Business Management.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | Class Title Cr | edit(s) |
|-------------|--------------------------------|---------|
| | Term 1 (Fall 2023) | |
| 10091102 | Dairy Cattle Management | 3 |
| 10091103 | Dairy Reproductive Management* | 3 |
| 10091117 | Animal Records - Dairy | 1 |

Term 2 (Spring 2024)

| | Term 3 (Fall 2024) |
|----------|---------------------------------|
| 10091113 | Dairy Issues and Advocacy |
| 10091106 | Dairy Management Applications** |
| 10091108 | Quality Milk Production |
| | |

10091115 Nutrition Principles - Dairy 3 10091104 On-Farm Internship 1 10804123 Math with Business Applications 3 7

Term 4 (Spring 2025)

| 10091105 | Dairy Feeding Management |
|----------|----------------------------------------|
| 10091107 | Dairy Employability and Management |
| 10091121 | Alternative Dairy Systems Technologies |
| 10091109 | On-Farm Internship 2 |

TOTAL 28

7

3

3

1

7

3

2

Note: Agribusiness Science & Technology should substitute these two 1-credit classes:

*10091135 Dairy Cattle AI Training (1 cr)

**10091119 Dairy Mgmt Site Farm Experience (1 cr)



ANIMAL RECORDS - DAIRY ... introduces learner to records management through hands-on applications including the set-up and use of computerized record-keeping software, completion of sample farm record problems utilizing computerized recordkeeping systems, as well as the selection and implementation of various computerized record programs. Software tools, such as PCDART, CowManager, and DairyCOMP 305, will be utilized. COREQUISITE: 10091103 Dairy Reproductive Management

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ON-FARM INTERNSHIP 1...provides the student with the ability and skills to perform industry expectations as a dairy herdsperson, including milking, feeding, calf care, scheduling, employer/employee communications, and general farm duties. Students work with their internship farm to complete the internship skills checklist. COREQUISITE: 10091115 Nutrition Principles-Dairy

ON-FARM INTERNSHIP 2 ... provides the student with enhanced skills, beyond the On-Farm Internship 1 course, to perform industry expectations as a dairy herdsperson, including milking, feeding, calf care, scheduling, employer/employee communications, and general farm duties. Students work with their internship farm to complete the internship skills checklist. PREREQUISITE: 10091104 On-Farm Internship 1

QUALITY MILK PRODUCTION ... introduces the student to the process of how milk is produced and how to harvest it for a maximum profit to the farmer, including the major principles of milk secretion, the anatomy and physiology of the udder, milk letdown, proper milking practices, mastitis, efficient milking systems, and how to properly milk cows as well as treat and prevent udder infections.

gotoltc.edu | 1290 North Avenue, Cleveland, WI 53015 | 1.888.GO TO LTC | HLC Accredited hlcommission.org LAKESHORE TECHNICAL COLLEGE DOES NOT DISCRIMINATE AGAINST PROTECTED CLASSES, INCLUDING BUT NOT LIMITED TO RACE, COLOR, NATIONAL ORIGIN, RELIGION, SEX, OR GENDER – INCLUDING SEXUAL ORIENTATION, GENDER IDENTITY, GENDER EXPRESSION, DISABILITY OR AGE IN EMPLOYMENT, ADMISSIONS, OR ITS PROGRAMS OR ACTIVITIES. TO HANDLE INQUIRIES REGARDING LAKESHORE'S NONDISCRIMINATION POLICIES, CONTACT MGR-ACCESS, EQUITY, & INCLUSION (STUDENTS) 920.693.1120, NICOLE, YANG@GOTOLTC.EDU / EXECUTIVE DIRECTOR OF HUMAN RESOURCES (STAFF/OTHERS) 920.693.1139, MARISSA HOLST@GOTOLTC.EDU. 1290 NORTH AVENUE, CLEVELAND, WI 53015. TTY 711 GOTOLTC.EDU/EQUAL-OPPORTUNITY-STATEMENT



DENTAL ASSISTANT

Program Number 30-508-2 Technical Diploma • One Term

ABOUT THE PROGRAM

Think about your last dental visit. Your dentist likely worked closely with a dental assistant to perform your exam or procedures. Dental assistants are vital to the safe and efficient operation of the dental office—they assist the dentist in the treatment room, in the lab, and with business administration. If you're interested in a career that focuses on helping people and offers plenty of variety in the workday, dental assisting is a great choice for you.

PROGRAM OUTCOMES

- · Perform a variety of entry-level supportive dental procedures.
- · Manage infection and hazard control.
- · Produce diagnostic radiographs/digital images.
- · Perform basic laboratory procedures.
- · Demonstrate professional behaviors, ethics, and appearance.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Submit a Dental Exam form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along
- with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Graduates are eligible to apply for Radiography and Infection Control, two sections of the Dental Assistant National Board Exam. The Chairside section of the exam requires two years of chairside experience. Hepatitis B vaccination is strongly recommended.

To complete the clinical portion of this program, site specific health and immunization documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

2023-24

Credit(s)

| 31508302 | Dental Chairside | 5 |
|----------|-------------------------------------|---|
| 31508304 | Dental and General Anatomy | 2 |
| 31508305 | Applied Dental Radiography | 2 |
| 31508306 | Dental Assistant Clinical | 3 |
| 31508307 | Dental Assistant Professionalism | 1 |
| 10508101 | Dental Health Safety | 1 |
| 31508303 | Dental Materials OR 10508113 Dental | 2 |
| | Materials | |
| | | |

Catalog No. Class Title

Torm 1

TOTAL 16

APPLIED DENTAL RADIOGRAPHY...prepares students to operate x-ray units and expose bitewing, periapical, extra oral, and occlusal radiographs. Emphasis is placed on protection against x-ray hazards. Students also process, mount, and evaluate radiographs for diagnostic value. Students also expose digital images and evaluate the image for diagnostic value. In this course students demonstrate competency on a manikin. In addition, students expose bitewing radiographs on a peer and role-play as a patient. COREQUISITES: 31508304 Dental & General Anatomy, 31508307 Dental Professionalism and CONDITION: 305082 Dental Assistant admission requirements met

DENTAL & GENERAL ANATOMY...prepares dental assistant students to apply fundamentals of general and dental anatomy to informed decision-making and to professional communication with colleagues and patients. COREQUISITES: 31508305 Applied Dental Radiography and 31508307 Dental Assistant Professionalism and CONDITION: 305082 Dental Assistant admission requirements met

DENTAL ASSISTANT CLINICAL...allows students to apply the skills developed in Dental Health Safety, Dental Chairside, Dental Materials, Dental Radiography, and Professionalism in a clinical setting with patients. It emphasizes the integration of core abilities and basic communication skills. COREQUISITE: 31508303/10508113 Dental Mtls, 31508302 Dental Chairside, 31508304 Dent/Gen Anat, 31508305 Appl Dental Radio, 31508307 Dental Prof, 10508101 Dent Hlth Sfty, and CONDITION: 305082 Dental Assistant admission requirements met

DENTAL ASSISTANT PROFESSIONAL...prepares dental assistant students for professional success in a dental practice or another dental health care environment. Students develop professional appearance and image. More importantly, they learn to work within the ethical guidelines and legal framework. In preparation for entering the work force, dental assistants customize or develop their portfolios and lay out an ongoing professional development plan. COREQUISITES: 31508304 Dental & General Anatomy, 31508305 Applied Dental Radiography and CONDITION: 305082 Dental Assistant admission requirements met

DENTAL CHAIRSIDE...prepares dental assistant students to chart oral cavity structures, dental pathology, and restorations; assist dentist with basic dental procedures including examinations, pain control, amalgam restoration, and cosmetic restoration. Students will also develop the ability to educate patients about preventative dentistry, brushing/flossing techniques, and dental procedures using lay terminology. Students will apply decoding strategies to the correct use and interpretation of dental terminology. COREQUISITE: 31508306 Dental Asst Clin, 31508304 Dent/Gen Anat, 31508305 Appl Dent Radio, 31508307 Dental Prof, 10508101 Dental Hlth Sfty, 31508303/10508113 Dental Mtls and CONDITION: 305082 Dental Assistantt admission requirements met

DENTAL HEALTH SAFETY...prepares dental auxiliary students to respond proactively to dental emergencies, control infection, prevent disease, adhere to OSHA Standards, and safely manage hazardous materials. Students also take patient vital signs and collect patient medical/dental histories. CPR certification is a prerequisite; students will be required to show proof of certification before beginning the course. CONDITION: 305082 Dental Assistant admission requirements met

DENTAL MATERIALS...prepares students to handle and prepare dental materials such as intermediary cements and resin restorative materials, gypsum products, and impression materials. They also learn to clean removable appliances. COREQUISITE: 10508101 Dental Health Safety and CONDITION: 305082 Dental Assistant admission requirements met



DIGITAL MARKETING

Program Number 10-104-8 Associate Degree in Applied Science • Four Terms

Catalog No. Class Title

10

101

101

108

ABOUT THE PROGRAM

Where creativity and technology meet! Digital marketing is an essential set of 21st century business tools. Students in our program gain knowledge and skills vital to the success of every company. From search engine optimization and digital advertising to connecting to audiences with social media, our graduates are ready to help future employers enhance their web presence and win in a digital market.

PROGRAM OUTCOMES

- Develop digital marketing strategies to anticipate and satisfy market needs.
- Create digital marketing content for products, services, images, and ideas.
- Integrate tools and technology for digital marketing initiatives.
- Analyze the effectiveness of marketing outcomes.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog NO | | Credit(s) |
|------------|--------------------------------|-----------|
| | Term 1 | |
| 10102110 | Introduction to Business | 3 |
| 10103161 | PowerPoint - Level 1 | 1 |
| 10804189 | Introductory Statistics | 3 |
| 10104102 | Marketing, Principles of | 3 |
| 10104169 | Internet Marketing Foundations | 3 |
| 10801195 | Written Communication | 3 |
| | | 16 |
| | Term 2 | |
| 10104177 | Content and Copywriting | 2 |
| 10104173 | Web Analytics | 2 |

| 104177 | Content and Copywriting | 2 |
|--------|-------------------------|----|
| 104173 | Web Analytics | 2 |
| 104125 | Social Media Strategy | 3 |
| 104176 | Digital Advertising | 3 |
| 104127 | Visual Branded Content | 3 |
| 809195 | Economics | 3 |
| | | 16 |

Term 3

| 10103121 | Excel - Level 1 | 1 |
|----------|---------------------------------------|----|
| 10104136 | Retail Marketing & E-Commerce | 3 |
| 10104178 | Video for Promotion | 2 |
| 10801198 | Speech OR 10801196 Oral/Interpersonal | 3 |
| | Communication | |
| 10105128 | Personal Branding | 2 |
| 10809198 | Introduction to Psychology | 3 |
| | | 14 |

Term 4

| 10104134 | PR and Media | 3 |
|----------|-----------------------------|----|
| 10104104 | Selling Strategies | 3 |
| 10104126 | Internship-Marketing | 1 |
| 10152106 | Integrated Web Concepts | 4 |
| 10104175 | Advanced Marketing Concepts | 3 |
| | | 14 |

TOTAL 60

Cradit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

ADVANCED MARKETING CONCEPTS...provides the experience of selecting and researching a company, brand, or business, creating an institutional and event promotion campaign and buying efficient media in order to influence a data-defined market segment. The markets may be local, national, or global. Includes a simulation that will test the students' budget and media buying decisions. PREREQUISITES: 10104125 Social Media Strategy and 10104176 Digital Advertising

CONTENT AND COPYWRITING...explores content marketing strategies and their effectiveness; such as creation, curation, and repurposing. You will learn to write compelling copy for a variety of audiences and marketing uses, develop a business personality, tone, and voice, andget the right message to the right people through the right media. Includes optimizing headlines, taglines, call-to-actions, infographics, emoji's, hashtags, and copy for effectiveness by using keywords, semantics, credibility, and the correct word choices. PREREQUISITES:10104102 Principles of Marketing and 10104169 Internet Marketing Foundations

DIGITAL ADVERTISING ... explores the world of advertising on the Internet through display, text, pay-per-click, mobile, email and text messages. You will learn how to initiate, manage and evaluate digital advertising effectively and efficiently using the Google AdWords platform. PREREQUISITES: 10104102 Principles of Marketing and 10104169 Internet Marketing Foundations

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

INTEGRATED WEB CONCEPTS...introduces students in the Web and Software Developer, Graphic and Web Design, and Marketing programs to working within interdisciplinary teams. Through the building of all aspects of an applicaton, each team will select and utilize design thinking processes and US/UI tools, prototype potential design solutions, ask for, give, and receive directive feedback, and effectively communicate and persuasively present ideas to an interdisciplinary audience. PREREQ 10104136 Retail Marketing and 101043 Mktg req met or 10152109 Object-Oriented Program 1, 10152123 Mobile Device Dev 1 and 101527 IT Web and Soft Dev req met or 10201173 or 10201119 Web Dev Advanced and 102012 Graphic and Web Design req met

INTERNET MARKETING FOUNDATIONS...explores how businesses use web sites, blogs, mobile apps, and search engine optimization (SEO) to market their business. You will learn basic web design fundamentals, how to use web content management systems, web-based tool connectivity, and use analytics to measure success.

INTERNSHIP-MARKETING...requires students to complete 72 hours(1 credit) of performing work in a business/industrial service setting related to their program outcomes. In addition, students will develop an academic portfolio which reflects upon the program outcomes, core abilities, career goal, educational goal, and course summary of learning. Students will meet with their program instructor to explain their portfolio and complete the technical skills attainment documentation. PREREQUISITE: 10104136 Retail Marketingand Ecommerce

INTRODUCTION TO BUSINESS...provides an introduction to the world of business from both the organizational and managerial viewpoint. It examines areas of business including the business environment, business formation, planning, operations, accounting, marketing, human resource management, and building effective teams.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent **PERSONAL BRANDING**...focuses on the importance of developing a strong brand identity for yourself as a professional. As a prospective employee, you are constantly selling yourself from how you talk, walk, dress, your facial expressions, and your body language; people are always forming impressions of you. In this course, you will develop a professional resume, cover letter, practice interview skills, and learn the role of social media in career development.

POWERPOINT - LEVEL 1...introduces the student to the program by planning and creating a presentation, adding media and special effects, and applying advanced formatting to objects.

PR AND MEDIA...introduces students to Public Relations principles and the PESO media model. Issues and crisis management, building media relationships, creating press releases, media kits, and on-message communication through traditional and digital channels are emphasized. PREREQUISITE: 10104125 Social Media Strategy and 10104177 Content and Copywriting

PRINCIPLES OF MARKETING...introduces the student to the consumer decision process model, the bases used to segment a market, basic concepts about goods, services, and ideas, the nature of supply chain and distribution, integrated marketing communications, and the stages of the product life cycle and their impact on the marketing mix.

RETAIL MARKETING AND ECOMMERCE...teaches how to determine if that is the case and where it is best to sell – stand alone or an online marketplace. You will learn about the steps to set up an e-commerce web site including shopping carts, payment gateways, and converting order processing into a shopping cart process. This class will also discuss some of the laws and regulations to consider and explore for domestic and global e-commerce. PREREQUISITE: 10104102 Principles of Marketing and 10104173 Web Analytics

SELLING STRATEGIES...prepares the student to understand the business to consumer selling process, the technological advancement in selling, and the importance of customer relationship management. PREREQUISITE: 10104102 Principles of Marketing

SOCIAL MEDIA STRATEGY...explores current and up-and-coming online platforms, applications, and tracking methods for social media and determine how they are revolutionizing the marketing landscape. You will set up social media accounts, learn basic terminology, and incorporate best practices into marketing strategies. You will learn which platforms fit best with an organization's strategic goals, how to integrate content across them, interpret the analytics, and tailor them to maximize results. PREREQUISITE: 10104170 Marketing Tourism and Hospitality or 10104102 Principles of Marketing

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

VIDEO FOR PROMOTION...covers fundamental techniques of video editing, sound editing, live video and creatively implementing video as a storytelling medium. Students will explore current video trends and best practices per social channels and integrate these techniques into a social media campaign. Additional topics will include YouTube channel creation, advertising, and best practices. PREREQUISITES: 10104125 Social Media Strategy and 10104127 Visual Branded Content.

VISUAL BRANDED CONTENT...teaches creating visual marketing content for social media, email campaigns, print, and more using various design software platforms. Special emphasis on understanding and following brand standards as well as literacy of file types, considerations for designing for print, and production tips. PREREQUISITE: 10104102 Principles of Marketing

WEB ANALYTICS...teaches marketing analytics software, how it works, how to set goals and then measure the effectiveness of the web tools in meeting those goals. Emphasis on proficiency with Google Analytics platform. PREREQUISITE: 10104169 Internet Marketing Foundations

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



DIGITAL MARKETING SPECIALIST

Catalog No. Class Title

Program Number 31-104-5 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

Master the fundamentals of digital marketing with this tech-driven embedded marketing program. This one-year diploma focuses on modern business skills: optimize websites for search, managing social media accounts, creating branded graphics and content, and more! Modern marketers will get the technical skills they need to promote products, services, and organizations with relevant, digital tools. A perfect first step for those new to the marketing field and those who want to update their skills.

PROGRAM OUTCOMES

- · Develop strategies to anticipate and satisfy market needs.
- · Promote products, services, images, and/or ideas to achieve a desired outcome.
- Utilize tools and technology for digital marketing initiatives.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Adobe software is provided through the college at the college. You can purchase Adobe for a reduced rate for personal use.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

| | | (-) |
|----------|--------------------------------|-----|
| | Term 1 | |
| 10102110 | Introduction to Business | 3 |
| 10103161 | PowerPoint - Level 1 | 1 |
| 10804189 | Introductory Statistics | 3 |
| 10104102 | Marketing, Principles of | 3 |
| 10104169 | Internet Marketing Foundations | 3 |
| 10801195 | Written Communication | 3 |
| | | 16 |

Term 2

| 10104177 | Content and Copywriting | 2 |
|----------|-------------------------|----|
| 10104173 | Web Analytics | 2 |
| 10104125 | Social Media Strategy | 3 |
| 10104176 | Digial Advertising | 3 |
| 10104127 | Visual Branded Content | 3 |
| 10809195 | Economics | 3 |
| | | 16 |

TOTAL 32

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

CONTENT AND COPYWRITING...explores content marketing strategies and their effectiveness; such as creation, curation, and repurposing. You will learn to write compelling copy for a variety of audiences and marketing uses, develop a business personality, tone, and voice, andget the right message to the right people through the right media. Includes optimizing headlines, taglines, call-to-actions, infographics, emoji's, hashtags, and copy for effectiveness by using keywords, semantics, credibility, and the correct word choices. PREREQUISITES:10104102 Principles of Marketing and 10104169 Internet Marketing Foundations

DIGITAL ADVERTISING...explores the world of advertising on the Internet through display, text, pay-per-click, mobile, email and text messages. You will learn how to initiate, manage and evaluate digital advertising effectively and efficiently using the Google AdWords platform. PREREQUISITES: 10104102 Principles of Marketing and 10104169 Internet Marketing Foundations

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

INTERNET MARKETING FOUNDATIONS...explores how businesses use web sites, blogs, mobile apps, and search engine optimization (SEO) to market their business. You will learn basic web design fundamentals, how to use web content management systems, web-based tool connectivity, and use analytics to measure success.

INTRODUCTION TO BUSINESS...provides an introduction to the world of business from both the organizational and managerial viewpoint. It examines areas of business including the business environment, business formation, planning, operations, accounting, marketing, human resource management, and building effective teams.

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

POWERPOINT - LEVEL 1...introduces the student to the program by planning and creating a presentation, adding media and special effects, and applying advanced formatting to objects.

PRINCIPLES OF MARKETING...introduces the student to the consumer decision process model, the bases used to segment a market, basic concepts about goods, services, and ideas, the nature of supply chain and distribution, integrated marketing communications, and the stages of the product life cycle and their impact on the marketing mix.

SOCIAL MEDIA STRATEGY...explores current and up-and-coming online platforms, applications, and tracking methods for social media and determine how they are revolutionizing the marketing landscape. You will set up social media accounts, learn basic terminology, and incorporate best practices into marketing strategies. You will learn which platforms fit best with an organization's strategic goals, how to integrate content across them, interpret the analytics, and tailor them to maximize results. PREREQUISITE: 10104170 Marketing Tourism and Hospitality or 10104102 Principles of Marketing

VISUAL BRANDED CONTENT...teaches creating visual marketing content for social media, email campaigns, print, and more using various design software platforms. Special emphasis on understanding and following brand standards as well as literacy of file types, considerations for designing for print, and production tips. PREREQUISITE: 10104102 Principles of Marketing

WEB ANALYTICS...teaches marketing analytics software, how it works, how to set goals and then measure the effectiveness of the web tools in meeting those goals. Emphasis on proficiency with Google Analytics platform. PREREQUISITE: 10104169 Internet Marketing Foundations

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

EARLY CHILDHOOD EDUCATION

Program Number 10-307-1 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

The Early Childhood Education program prepares students to work as teacher-caregivers in early childhood settings. It combines hands-on fieldwork in area centers with related academic work at the college. Graduates become responsible for the care and education of children in the birth-to-eight-years age range. They create and maintain safe and healthy play environments, guide behavior, plan and implement learning activities, and work cooperatively with staff and parents.

PROGRAM OUTCOMES

- Apply child development theory to practice
- · Cultivate relationships with children, family and the community
- Assess child growth and development
- Use best practices in teaching and learning
- Demonstrate professionalism
- Integrate health, safety and nutrition practices

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/futurestudents/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.

 Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. This will also include a discussion and given paperwork to complete fingerprint-based background check request form a semester prior to enrolling in Introductory Practicum.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

- \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/ tuition-and-fees for details.
- Fingerprint-based background check current fee of \$39 (subject to change)

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

*ECE: Health, Safety & Nutrition is a prerequisite to Introductory Practicum. To keep a student on track to graduation, this course is offered summer, fall and spring terms. In addition, Introductory Practicum is offered fall and spring terms. Intermediate, Preschool and Advanced Practicums are offered summer, fall and spring. Please meet with your LTC program counselor to plan the best path for you.

Introductory Practicum students are required to attend <u>all</u> course reflections to receive required trainings (36 hours of lecture + 72 hours of field experience).

Intermediate Practicum, Preschool Practicum and Advanced Practicum students are required to attend <u>all</u> course reflection forums as well as scheduled field experience hours for each practicum course (36 hours of lecture + 72 hours of field experience). Students successfully completing year one of the associate degree program are able to graduate with a Child Care Services technical diploma. See program counselor for details.

To complete the clinical portion of this program, site specific health and immunization documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | . Class Title | Credit(s) |
|-------------|------------------------------------|-----------|
| | Term 1 | |
| 10307148 | ECE: Foundations of Early Childhoo | d 3 |

| | Education | |
|----------|-----------------------------------|----|
| 10307151 | ECE: Infant & Toddler Development | 3 |
| 10307174 | ECE: Introductory Practicum* | 3 |
| 10307110 | ECE: Social Studies, Art & Music | 3 |
| 10801195 | Written Communications | 3 |
| | | 15 |

Term 2

| 10307179 | ECE: Child Development | 3 |
|----------|------------------------------------|----|
| 10307188 | ECE: Guiding Children's Behavior | 3 |
| 10307177 | ECE: Intermediate Practicum | 3 |
| 10307108 | ECE: Early Language & Literacy | 3 |
| 10307167 | ECE: Health, Safety, and Nutrition | 3 |
| 10809172 | Introduction to Diversity Studies | 3 |
| | | 18 |

Term 3

| 10307112 | ECE: STEM | 3 |
|----------|-----------------------------------------|----|
| 10307195 | ECE: Family and Community Relationships | 3 |
| 10307175 | ECE: Preschool Practicum | 3 |
| 10804107 | College Mathematics | 3 |
| 10809196 | Introduction to to Sociology | 3 |
| | | 15 |

Term 4

| 10307187 | ECE: Children with Differing Abilities | 3 |
|----------|----------------------------------------|----|
| 10307199 | ECE: Advanced Practicum | 3 |
| 10801198 | Speech | 3 |
| 10809198 | Introduction to Psychology | 3 |
| | | 12 |

TOTAL 60

COLLEGE MATHEMATICS...is designed to review and develop fundamental concepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2) geometry and trigonometry; and 3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators. COREQUISITE: Math placement assessment or equivalent

ECE: ADVANCED PRACTICUM...demonstrate competence in supporting child development through observation, assessment and implementation of teaching strategies as you work in and learn about and apply the course competencies in an actual early childhood setting. You will demonstrate a high level of skill in fostering relationships with children, families and early childhood professionals, and use skills learned in a lead teacher role to develop a career plan to transition from student to early childhood education professional. PREREQUISITE: 10307175 ECE: Preschool Practicum and 10307177 ECE: Intermediate Practicum and CONDITION: 103071 Early Childhood Education admission requirements met

ECE: CHILD DEVELOPMENT...examines child development within the context of the early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze social, cultural, and economic influences on child development; summarize child development theories; analyze development of children ages three through five; analyze development of children ages five through eight; relate child development research findings to teaching practice; analyze the role of heredity and the environment; examine the role of brain development in early learning (ages 3-8); examine developmental and environmental assessment strategies for children ages 3-8.

ECE: CHILDREN WITH DIFFERING ABILITIES...focuses on the child with differing abilities in an early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; promote inclusive programs for young children; apply legal and ethical requirements including, but not limited to, ADA and IDEA; examine the consultation process to embed intervention in natural based settings; differentiate between typical and exceptional development; analyze the differing abilities of children with physical, cognitive, health/medical, communication, and/ or behavioral/emotional disorders; identify community and professional resources; interpret an individual educational plan (IEP/IFSP) for children with developmental differences; examine strategies for cultivating partnerships with families who have children with developmental differences.

ECE: EARLY LANGUAGE AND LITERACY...explores strategies to encourage the development of early language and literacy knowledge and skill building in children birth to 8 years of age. Learners will investigate the components of literacy including; literacy and a source of enjoyment, vocabulary and oral language, phonological awareness, knowledge of print, letters and words, comprehension and an understanding of books and other texts. Theories and philosophies regarding children's language and literacy development will be addressed. Dual language learning will be examined within the context of developmentally appropriate practices. Assessment tools for early language and literacy acquisition will be reviewed.

ECE: FAMILY AND COMMUNITY RELATIONSHIPS...examine the role of relationships with family and community in early childhood education. Course competencies include: implement strategies that support diversity, cultural responsiveness, and anti-bias perspectives when working with families and community; analyze contemporary family patterns and trends; identify strategies to strengthen and support families; explore effective communication strategies; discover strategies for developing respectful and reciprocal relationships with families; analyze strategies to promote family engagement in early childhood education programs; explore a variety of formats for meeting with families in their contexts; advocate for children and families.

ECE: FOUNDATIONS OF EARLY CHILDHOOD EDUCATION...introduces you to the early childhood profession. Course competencies include: explore the concepts of diversity, cultural responsiveness, and anti-bias as it relates to early childhood education investigate the history of early childhood education, examine regulatory requirements for early childhood education programs in WI, summarize types of early childhood education settings, identify the components of a quality early childhood education program, summarize responsibilities of early childhood education professionals, explore early childhood curriculum models and examine the critical role of play as it relates to developmentally appropriate practice.

ECE: GUIDING CHILDREN'S BEHAVIOR...examines positive strategies to guide children's behavior in the early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze techniques for and effects of strong relationship-building with children and families; identify positive and proactive guidance principles and techniques to support children's analyze environmental influences on child behavior; identify strategies that support children's active engagement in the learning environment; identify strategies that proactively teach emotional literacy and regulation techniques; identify strategies that proactively teach friendship skills; identify strategies that proactively teach children calming, relaxation, and problem-solving techniques; utilize observation and assessment techniques to assess and interpret behavior; create a behavior support plan based on a functional behavior assessment; create a guidance philosophy. This course meets the requirements of the "24 hour Wisconsin" Pyramid Model training.

ECE: HEALTH, SAFETY AND NUTRITION...examines the topics of health, safety, and nutrition within the context of the early childhood educational setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; examine governmental regulations and professional standards as they apply to health, safety, and nutrition; plan a safe early childhood environment; plan a healthy early childhood environment; plan nutritionally sound menus; examine child abuse and neglect issues and mandates; describe Sudden Infant Death Syndrome (SIDS) risk reduction strategies; describe strategies to recognize and prevent the occurrence of abusive head trauma (AHT); incorporate health, safety, and nutrition concepts into the children's curriculum.

ECE: INFANT AND TODDLER DEVELOPMENT...will study infant and toddler development as it applies to an early childhood education setting. Course competencies include: integrate strategies that support diversity, cultural responsiveness, and anti-bias perspectives; analyze development of infants & toddlers (conception to 36 months); correlate prenatal and postnatal conditions with development; summarize child development theories; analyze the role of heredity and the environment; examine culturally and developmentally appropriate environments for infants and toddlers, examine the role of brain development in early learning (conception through 36 months); examine caregiving routines as curriculum; and examine developmental & environmental assessment strategies for infants and toddlers.

ECE: INTERMEDIATE PRACTICUM...will be implementing regulations and standards for quality early childhood education, applying knowledge of child development and positive guidance, utilizing observation and assessment techniques, and assessing developmentally appropriate environments for children. PREREQUISITE: 10307174 ECE: Introductory Practicum and CONDITION: 103071 Early Childhood Education or 313071 Child Care Services program admissions requirements met

ECE: INTRODUCTORY PRACTICUM...will learn about and apply the course competencies in an actual early childhood setting. You will explore the standards for quality early childhood education, demonstrate professional behaviors, and meet the requirements for training in the Wisconsin Model Early Learning Standards. Fingerprint-based background check completed with result of "Final Eligibility" is required. CONDITION: 103071 Early Childhood Education adm reqs met or 313071 Child Care Services adm requirements met and PREREQUISITE: 10307167 ECE: Health, Safety & Nutrition

ECE: PRESCHOOL PRACTICUM...apply as capstone course in The Registry Preschool Credential. You will be placed or working in an early childhood setting with 3-5 yr old children and create a portfolio that prepares you for The Registry commission. You will be implementing regulations and standards for quality early childhood education, applying knowledge of child development and positive guidance, utilizing observation and assessment techniques, and assessing developmentally appropriate environments for preschoolers. PREREQUISITE: 10307174 ECE: Introductory Practicum and CONDITION: 103071 Early Childhood Education or 313071 Child Care Services program admissions reqs met

ECE: SOCIAL STUDIES, ART, AND MUSIC...will focus on beginning level curriculum development in the specific integrated content areas of social studies, art, music, & movement (SSAMM).

ECE: STEM...will focus on beginning level curriculum development in the specific integrated content areas of science, technology, engineering and mathematics.

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, & editing. Through a variety of writing assignments, student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

EARLY CHILDHOOD EDUCATOR • APPRENTICE

Program Number 50-307-1

2-Year Contract

Credit(s)

Work Hours (including related instruction): 4000 Related Instruction Hours: 288 • Night School Hours: 8

Catalog No. Class Title

1

1

1

1

1

ABOUT THE APPRENTICESHIP

Apprenticeships are employer-sponsored training programs. You must have a contract before being invited to school. A special application process is used for these programs. Please contact the Apprenticeship Office for the proper forms. Apprenticeship means you earn while you learn. If you want a career in a skilled trade, apprenticeship is the best way to get there. You'll combine on-the-job training with on campus learning— you'll have the best of both worlds when it comes to learning the skills you need to get ahead. And even better, you'll earn a paycheck while you learn those skills.

ABOUT THE CAREER

This apprenticeship program prepares individuals for employment as early childhood educators in child care agencies. The early childhood educator apprentice will gain skills and knowledge while working with a seasoned veteran within the early childhood setting. The theory and classroom content offered in the paid-related instruction include courses addressing the foundations of early childhood, health, safety, nutrition, art, music, language arts, child development, guiding behavior, and the development of infants and toddlers. Practical skills are both learned and practiced on the job in the areas of safety, health, first aid, abuse and neglect, administrative duties, nutrition and hygiene, child development, supervision, and consultation techniques. Wage increases over the period of the apprenticeship compensate the gradual gain in skills and knowledge. Apprentices may be eligible to transfer 24 credits into the Early Childhood Education associate degree.

CAREERS

Companies in the Manitowoc/Sheboygan have employed Early Childhood Educators.

APPROXIMATE COSTS

Contact the LTC Apprenticeship Office or visit www.gotoltc.edu/apprenticeship for detailed information.

SPECIAL NOTE You must have a sponsoring employer and contract before attending school.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

| 0307148 0307167 | Term 1 ECE: Foundations of Early Childhood Education ECE: Health, Safety, and Nutrition | 3 3 6 |
|--------------------|---------------------------------------------------------------------------------------------------------|--------------------|
| 0307179 0307188 | Term 2 ECE: Child Development ECE: Guiding Children's Behavior | 3 3 6 |
| 0307151 0307195 | 1 | 3 3 |

Term 4

| 10307187 | ECE: Children with Differing Abilities | 3 |
|----------|----------------------------------------|---|
| 10307108 | ECE: Early Language & Literacy | 3 |
| | | 6 |

TOTAL 24



ELECTRO-MECHANICAL MAINTENANCE TECHNICIAN

Program Number 10-462-2 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Times are changing in the field of maintenance. Facilities are running with both manual and automated equipment and both need to be maintained and repaired. If you like to troubleshoot, work with your hands, and have an interest in math and electrical and mechanical processes, a career in maintenance is for you. Your expertise and knowledge is needed in today's modern, automated facilities.

PROGRAM OUTCOMES

- · Demonstrate safe work procedures.
- · Install industrial and robotic equipment and systems.
- · Maintain industrial and robotic equipment and systems.
- Troubleshoot industrial and robotic equipment and systems.
- · Repair industrial and robotic equipment and systems.
- Communicate technical information.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Students may need to supply their own safety glasses and welding gloves.

RELATED PROGRAMS

- Electro-Mechanical Automation Technology
- Millwright Apprenticeship
- Industrial Electrician Apprenticeship
- Maintenance Technician Apprenticeship

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No. Class Title | Credit(s) |
|-------------------------|-----------|
| | |

Term 1

| 10804113 | College Technical Math 1A OR 10804198 | 3 |
|----------|---------------------------------------|----|
| | Calculus 1* (4 cr) | |
| 10462109 | Maintenance Introduction | 1 |
| 10462111 | Maintenance Print Reading | 2 |
| 10462107 | Tools and Measurement | 1 |
| 10620122 | Industrial Wiring | 2 |
| 10420194 | Machine Tool Introduction | 2 |
| 10442100 | Safety and Welding Fundamentals | 1 |
| 10457103 | Fabrication Introduction | 1 |
| 10462115 | Layout and Rigging | 1 |
| | | 14 |

Term 2

| 10462123 | Pumps, Fluid/Air Handling | 2 |
|----------|------------------------------------|----|
| 10620155 | Hydraulics and Pneumatics | 3 |
| 10420103 | Lathes 1 | 1 |
| 10420105 | Mills 1 | 1 |
| 10462127 | Bearings and Lubrication | 2 |
| 10462117 | Power Transmission | 3 |
| 10462121 | Troubleshooting and Machine Repair | 3 |
| 10801196 | Oral/Interpersonal Communication | 3 |
| | | 18 |

Term 3

| 10620169 | Robotic Mechanical Maintenance | 1 |
|----------|--------------------------------|----|
| 10620124 | Microcontroller Programming | 1 |
| 10620168 | Robotics Introduction | 2 |
| 10620105 | DC Fundamentals | 2 |
| 10809198 | Introduction to Psychology | 3 |
| 10801195 | Written Communication | 3 |
| | | 12 |

Torm 4

| 10620151 | Electrical Robotic Maintenance | 2 |
|----------|------------------------------------------|----|
| 10620110 | AC Fundamentals | 2 |
| 10620164 | Electromechanical Systems | 2 |
| 10620138 | Programmable Controllers - Allen Bradley | 3 |
| 10620141 | Industrial Controls and Motors | 3 |
| 10620147 | Electronic Devices/Transducers | 2 |
| 10809195 | Economics | 3 |
| | | 17 |

TOTAL 61

*Calculus 1 is designed for students planning to transition to a 4-year college following LTC program completion.

ELECTRO-MECHANICAL AUTOMATION TECHNOLOGY

Program Number 10-620-1 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Change is constant. Change is rapid. In the world of manufacturing, technology change brings more complex systems of assembly, control measurement, and material processing of manufactured products. If you're good at problem solving, like working with automated manufacturing equipment, and you're looking forward to work that continuously challenges you to keep growing your knowledge and skills-consider an always-evolving career in our Industry 4.0 Electro-Mechanical Technology program.

PROGRAM OUTCOMES

- · Perform work safely.
- Troubleshoot electrical and mechanical systems and devices.
- · Repair electrical and mechanical systems.
- · Communicate technical information.
- · Integrate electrical and mechanical systems and devices.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

RELATED PROGRAMS

- Maintenance Mechanic
- · Electro-Mechanical Maintenance Technician
- Manufacturing Engineering Technology
- Industrial Electrician Apprenticeship
- Maintenance Technician Apprenticeship

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No. | Class Title | Credit(s) |
|-------------|-------------------------------------|-----------|
| | Term 1 | |
| 10620122 | Industrial Wiring | 2 |
| 10620155 | Hydraulics and Pneumatics | 3 |
| 10620169 | Robotic Mechanical Maintenance | 1 |
| 10620105 | DC Fundamentals | 2 |
| 10804113 | College Technical Math 1A OR 108041 | 98 3 |
| | Calculus 1** (4 cr) | |
| 10462107 | Tools and Measurement | 1 |
| 10620124 | Microcontroller Programming | 1 |
| 10801195 | Written Communications | 3 |

Term 2

| 10620138 | Programmable Controllers - Allen Bradley* | 3 |
|----------|-------------------------------------------|----|
| 10620141 | Industrial Controls and Motors | 3 |
| 10620110 | AC Fundamentals | 2 |
| 10806154 | General Physics 1 | 4 |
| 10809198 | Introduction to Psychology | 3 |
| 10801196 | Oral/Interpersonal Communication | 3 |
| | | 18 |

Term 3

| 10620130 | Mechanical Drive Systems | 3 |
|----------|------------------------------------------|----|
| 10620140 | Programmable Controllers - Allen Bradley | 2 |
| | Advanced* | |
| 10620147 | Electronic Devices/Transducers | 2 |
| 10620164 | Electromechanical Systems | 2 |
| 10620168 | Robotics Introduction* | 2 |
| 10620193 | NEC Codes* | 1 |
| 10620194 | Touch Screen Applications* | 2 |
| 10620198 | Industrial Networks* | 2 |
| | | 16 |

Term 4

| 10620171 | Robotics Advanced* | 2 |
|----------|---------------------------------------|---|
| 10620151 | Electrical Robotic Maintenance | 2 |
| 10620185 | Robotic Integration | 1 |
| 10620195 | Industrial Troubleshooting | 1 |
| 10620196 | Industrial Applications | 4 |
| 10620197 | Analog Controls | 2 |
| 10620199 | Integration of Manufacturing | 2 |
| 10809196 | Introduction to Sociology OR 10809195 | 3 |
| | Economics (3 cr) | |
| | | |

17

16

TOTAL 67

*Class qualifies for continuing education units (CEUs) for electricians

**Calculus 1 is designed for students planning to transition to a 4-year college following LTC program completion.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

AC FUNDAMENTALS...prepares the student to analyze electrical circuits using AC math, analyze AC waveforms, measure and analyze AC power, analyze capacitors and inductors in DC and AC circuits, analyze AC circuits containing reactance and calculate resonance, apply the elements and properties of basic measuring circuits, and describe transformer characteristics. PREREQUISITE: 10620105 DC Fund or 10660105 DC Fund

ANALOG CONTROLS...introduces instrumentation used for process control. The student will test, calibrate, install, and commission transmitters in varied processes. PREREQ: 10620110 AC Fund OR 10620110 AC Fund, 10620141 Ind Cntrls and Motors, 10620140 PCLs Adv, 10620194 Touch Screen Apps, 10620147 Elec Devices/Transducers

COLLEGE TECHNICAL MATHEMATICS 1A...prepares student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis on the application of skills to technical problems. PREREQS: 10834110 Elem Algebra w Apps or 10804107 College Math or 31457318 Ind Minc Trades Math or 31420320 Mach Tool Math or math picmnt assmnt equiv

DC FUNDAMENTALS...prepares student to convert values to scientific and engineering notations; calculate math quantities; describe basic atomic theory; identify basic electrical terms; use established symbols standards; describe DC voltage characteristics and current sources and electrical resistance; measure and analyze electrical quantities in series and parallel circuits; and desolder/solder single lead components. COREQ: 10804113 College Tech Math 1A or 10804115 College Tech Math 1 or 10804198 Calculus 1 or 10804118 Interm Algebra w Apps

ELECTRICAL ROBOTIC MAINTENANCE...introduces students to causes of error codes and their repair with Fanuc R30IB controller. Students will also be trained in DCS, Ethernet communication and I/O. PREEQUISITES: 10620169 Robotic Mechanical Maintenance, 10620122 Industrial Wiring and 10620168 Robotics Introduction

ELECTROMECHANICAL SYSTEMS...prepares the student to communicate with, tune, run, and troubleshoot Allen-Bradley servos; utilize electrical control of hydraulic systems, explore PID control of motor speed; and investigate open and closed loop control systems. PREREQUISITES: 10620104 Fluid Power 2 or 10620155 Hydraulics and Pneumatics COREQUISITE: 10620110 AC Fundamentals or 10660110 AC Fundamentals

ELECTRONIC DEVICES/TRANSDUCERS...prepares the student to relate numbering systems with their functions in Electrical Ladder Diagrams and Data Transmission; gain an understanding of temperature and temperature sensing devices, weighing systems, ultrasonic and radar level detection, measuring flow, and pressure. The student will develop the ability to explain the operation of transducers that measure process variables and the transmitters that interface to industrial control systems. Transmitters will be analyzed, configured and calibrated to properly indicate the physical characteristic being measured and provide the information to control systems. PREREQUISITES: 10660110 AC Fundamentals OR 10620110 AC Fundamentals

GENERAL PHYSICS 1...presents the applications and theory of basic physics principles. This course emphasizes problem-solving, laboratory investigation, and applications. Topics include unit conversions and analysis, vectors, translational and rotational kinematics, translational and rotational dynamics, heat and temperature, and harmonic motion and waves. PREREQUISITE: 10804113 College Tech Math 1A or Math placement assessment or equivalent

HYDRAULICS AND PNEUMATICS...prepares the learner to identify hydraulic and pneumatic component symbols and terms, adjust a pressure relief valve, analyze the operation of a pilot operated relief valve; analyze Pascal's law; evaluate flow, velocity, work and power in industrial hydraulic and pneumatic circuits; analyze meter-in, meter-out, and bypass flow control circuits; identify basic hydraulic and pneumatic control valves; and assemble hydraulic circuits. PREREQUISITES: 10804113 College Tech Math 1A

INDUSTRIAL APPLICATIONS...prepares the learner to configure, install, troubleshoot and maintain automation equipment in a "real world" setting. This course will include wiring and configuring automation equipment, wiring and configuring industrial networks, wiring, programming and troubleshooting PLCs and touchscreens. These practices will be applied to create and maintain a manufacturing process. This course is highly computer based. PREREQUISITE: 10620140 Prog Cntrls AB Adv, 10620104 Fluid Power 2 or 10620155 Hydraulics/Pneumatics, 10620194 Touch Screen Appl, 10620168 Robotics Intro, 10620193 NEC Codes, 10620198 Indust Networks and COREQUISITE: 10620195 Indust Tribishtng

INDUSTRIAL CONTROLS AND MOTORS...prepares the learner to select control devices by function and operation; illustrate electrical circuits using symbols, diagrams, and abbreviations; explain the operation of magnetic solenoids and apply motor control techniques and introduces the student to three-phase power motor circuits for industrial applications. PREREQUISITE: 10620122 Industrial Wiring and COREQUISITE: 10620110 AC Fundamentals or PREREQUISITE: 10660110 AC Fundamentals

INDUSTRIAL NETWORKS...prepares the learner to configure, install and troubleshoot industrial communication networks. This course is highly computer based. COREQUISITES: 10620140 Programmable Controls AB Advanced. This class qualifies for 48 hours of Continuing Education Units (CEUs) for Electricians.

INDUSTRIAL TROUBLESHOOTING...prepares the learner to conduct effective machine control troubleshooting techniques with an understanding of preventive maintenance methods designed to minimize motor and controls issues between preventive maintenance measures. PREREQUISITE: 10620141 Industrial Controls and Motors

INDUSTRIAL WIRING...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits. INTEGRATION OF MANUFACTURING...provides the student with a detailed examination of automated processes and devices that are integrated together in a manufacturing environment. PREREQUISITE: 10620140 PCLs Advanced, 10620194 Touch Screen Apps, 10620147 Elec Devices/Transducers, 10620141 Ind Ctrls and Motors, and COREQUISITE: 10620188 Ind Networks

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

MECHANICAL DRIVE SYSTEMS...prepares the learner to use tools and fasteners safely; identify belt and chain drive components; install and adjust belt and chain drives; apply bearing and lubrication information; perform coupling alignment using straight edge, feeler gauge, and dial indicator and laser methods; identify various gear drives; calculate gear ratios; and analyze first-, second-, and third-class levers.

MICROCONTROLLER PROGRAMMING ... introduces the student to concepts in basic digital programming, programming logic, electronic components, and Digital and Analog I/O.

NEC CODES...introduces the student to National Electric Codes NFPA 70. Prepares the learner to apply NFPA 70 to motor and control installations and repairs. PREREQUISITE: 10620141 Industrial Controls and Motors. This class qualifies for 24 hours of Continuing Education Units (CEUs) for Electricians.

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PROGRAMMABLE CONTROLLERS - ALLEN BRADLEY...prepares the student to understand basic PLC structure and terminology; learn to create and troubleshoot basic PLC programs using the RSLOGIX 500 software and the RSLINX communication software; become familiar with communicating with programming SLC-500 PLCs. This course is highly computer based.

PROGRAMMABLE CONTROLLERS - ALLEN BRADLEY ADVANCED..prepares the student to develop applications utilizing subroutine instructions, analog modules; gain a basic understanding of creating and troubleshooting programs using the ControlLogix, Studio5000 software. This course is highly computer based. PREREQ: 10620138 Prog Cntrls/ AB. This class qualifies for 48 hrs of Continuing Education Units (CEUs) for Electricians.

ROBOTIC MECHANICAL MAINTENANCE...introduces the students to the robot teach pendant and robot jogging. Students will be taught to replace servo motors, recalibrate the robot and back up robot software and programs.

ROBOTICS ADVANCED...introduces students to adv robot programming commands to include use of Fanuc Rivision on both Fanuc Robotic arm and Delta Robots. Once a student completes both Robotic Introduction and Robotics Advanced they will be well prepared to take the Fanuc Certification test by NOCTI. PREREQ: 10620168 Robotics Introduction. This class qualifies for 48 hrs of Continuing Education Units (CEUs) for Electricians.

ROBOTIC INTEGRATION...students will examine integration of Fanuc robots into industrial automation systems, involving Rockwell touch screens, PLCs, and industrial communication networks. Students required to complete an integration project using a Fanuc robotic cell. The project will tie everything learned during their time together – safety, machine integration, vision systems, machine applications for robotics, troubleshooting, and work documentation. COREQS: 10620171 Robotics Adv and 10620151 Electrical Robotic Maint

ROBOTICS INTRODUCTION...introduces the student to robotic axes, movement control, navigating the teach pendant, robotic frames, basic programming commands such as conditional branching, wait and call instructions. This class qualifies for 48 hours of Continuing Education Units (CEUs) for Electricians.

TOOLS AND MEASUREMENT...prepares the learner to use hand tools, precision measuring instruments, and torque tools.

TOUCH SCREEN APPLICATIONS...prepares the student to create, edit, and troubleshoot screens, objects and I/O related to the FactoryTalkME application. Students will create, edit and communicate with Allen-Bradley PLC programs for real-time control utilizing the touchscreen applications. This course is highly computer based. This class qualifies for 48 hours of Continuing Education Units (CEUs) for Electricians. COREQUISITES: 10620140 Programmable Controls AB Advanced

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

ELECTRO-MECHANICAL MAINTENANCE TECHNICIAN

Program Number 10-462-2 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Times are changing in the field of maintenance. Facilities are running with both manual and automated equipment and both need to be maintained and repaired. If you like to troubleshoot, work with your hands, and have an interest in math and electrical and mechanical processes, a career in maintenance is for you. Your expertise and knowledge is needed in today's modern, automated facilities.

PROGRAM OUTCOMES

- Demonstrate safe work procedures.
- · Install industrial and robotic equipment and systems.
- · Maintain industrial and robotic equipment and systems.
- Troubleshoot industrial and robotic equipment and systems.
- Repair industrial and robotic equipment and systems.
- · Communicate technical information.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

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ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

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FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Students may need to supply their own safety glasses and welding gloves.

RELATED PROGRAMS

- Electro-Mechanical Automation Technology
- Millwright Apprenticeship
- Industrial Electrician Apprenticeship
- Maintenance Technician Apprenticeship

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No | . Class Title | Credit(s) |
|------------|---------------------------------------------------------------------------|-----------|
| 10804113 | Term 1 College Technical Math 1A OR 10804 Calculus 1* (4 cr) | 198 3 |
| 10462109 | Maintenance Introduction | 1 |
| 10462111 | Maintenance Print Reading | 2 |
| 10462107 | Tools and Measurement | 1 |
| 10620122 | Industrial Wiring | 2 |
| 10420194 | Machine Tool Introduction | 2 |
| 10442100 | Safety and Welding Fundamentals | 1 |
| 10457103 | Fabrication Introduction | 1 |
| 10462115 | Layout and Rigging | 1 |
| | | 14 |

Term 2

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108 108

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| 10462123 | Pumps, Fluid/Air Handling | 2 |
|----------|------------------------------------|----|
| 10620155 | Hydraulics and Pneumatics | 3 |
| 10420103 | Lathes 1 | 1 |
| 10420105 | Mills 1 | 1 |
| 10462127 | Bearings and Lubrication | 2 |
| 10462117 | Power Transmission | 3 |
| 10462121 | Troubleshooting and Machine Repair | 3 |
| 10801196 | Oral/Interpersonal Communication | 3 |
| | | 18 |

Term 3

| 20169 | Robotic Mechanical Maintenance | 1 |
|--------|--------------------------------|----|
| 620124 | Microcontroller Programming | 1 |
| 20168 | Robotics Introduction | 2 |
| 20105 | DC Fundamentals | 2 |
| 809198 | Introduction to Psychology | 3 |
| 801195 | Written Communication | 3 |
| | | 12 |

Term 4

| 0620151 | Electrical Robotic Maintenance | 2 |
|---------|------------------------------------------|----|
| 0620110 | AC Fundamentals | 2 |
| 0620164 | Electromechanical Systems | 2 |
| 0620138 | Programmable Controllers - Allen Bradley | 3 |
| 0620141 | Industrial Controls and Motors | 3 |
| 0620147 | Electronic Devices/Transducers | 2 |
| 0809195 | Economics | 3 |
| | | 17 |

TOTAL 61

*Calculus 1 is designed for students planning to transition to a 4-year college following LTC program completion.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

AC FUNDAMENTALS...prepares the student to analyze electrical circuits using AC math, analyze AC waveforms, measure and analyze AC power, analyze capacitors and inductors in DC and AC circuits, analyze AC circuits containing reactance and calculate resonance, apply the elements and properties of basic measuring circuits, and describe transformer characteristics. PREREQUISITE: 10620105 DC Fund or 10660105 DC Fund

BEARINGS AND LUBRICATION...prepares the learner to properly identify, remove, install, and maintain both plain and rolling element bearings used with either a radial or axial load, including ball, cylindrical roller, tapered roller, linear, and thrust bearings; use manufacturers' resources for proper usage and life of bearings; and look at proper types, properties, and application methods of lubrication. PREREQUISITES: 10804113 College Tech Math 1A and 10462109 Maintenance Intro or 31462309 Industrial Maintenance Intro

COLLEGE TECHNICAL MATHEMATICS 1A...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. COREQUISITE: Math placement assessment or equivalent

DC FUNDAMENTALS...prepares student to convert values to scientific and engineering notations; calculate math quantities; describe basic atomic theory; identify basic electrical terms; use established symbols standards; describe DC voltage characteristics and current sources and electrical resistance; measure and analyze electrical quantities in series and parallel circuits; and desolder/solder single lead components. COREQ: 10804113 Coll Tech Math 1A or 10804115 Coll Tech Math 1 or 10804198 Calculus 1 or 10804118 Intern Algebra w/ Apps

ECONOMICS...provides participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

ELECTRICAL ROBOTIC MAINTENANCE...introduces students to causes of error codes and their repair with Fanuc R30iB controller. Students will also be trained in DCS, Ethernet communication and I/O. PREEQUISITES: 10620169 Robotic Mechanical Maintenance, 10620122 Industrial Wiring and 10620168 Robotics Introduction

ELECTROMECHANICAL SYSTEMS...prepares the student to communicate with, tune, run, and troubleshoot Allen-Bradley servos; utilize electrical control of hydraulic systems, explore PID control of motor speed; and investigate open and closed loop control systems. PREREQUISITES: 10620104 Fluid Power 2 or 10620155 Hydraulics and Pneumatics COREQUISITE: 10620110 AC Fundamentals or 10660110 AC Fundamentals

ELECTRONIC DEVICES/TRANSDUCERS...prepares the student to relate numbering systems with their functions in Electrical Ladder Diagrams and Data Transmission; gain an understanding of temperature and temperature sensing devices, weighing systems, ultrasonic and radar level detection, measuring flow, and pressure. The student will develop the ability to explain the operation of transducers that measure process variables and the transmitters that interface to industrial control systems. Transmitters will be analyzed, configured and calibrated to properly indicate the physical characteristic being measured and provide the information to control systems. PREREQUISITES: 10660110 AC Fundamentals or 10620110 AC Fundamentals

FABRICATION INTRODUCTION...introduces the learner to various types of structural steel, sheet metal, and pipe, and prepares the learner to perform fabrication from assembly prints, including cutting, welding, bending, straightening, and repair. COREQ: 10442100 Welding Intro or PREREQS: 31442346 Ind Maint Intro to Welding or 31442300 Welding Intro

HYDRAULICS AND PNEUMATICS...prepares the learner to identify hydraulic and pneumatic component symbols and terms, adjust a pressure relief valve, analyze the operation of a pilot operated relief valve; analyze Pascal's law; evaluate flow, velocity, work and power in industrial hydraulic and pneumatic circuits; analyze meter-in, meter-out, and bypass flow control circuits; identify basic hydraulic and pneumatic control valves; and assemble hydraulic circuits. PREREQUISITES: 10804113 College Tech Math 1A

INDUSTRIAL CONTROLS AND MOTORS...prepares the learner to select control devices by function and operation; illustrate electrical circuits using symbols, diagrams, and abbreviations; explain the operation of magnetic solenoids and apply motor control techniques and introduces the student to three-phase power motor circuits for industrial applications. PREREQUISITE: 10620122 Industrial Wiring and COREQUISITE: 10620110 AC Fundamentals

INDUSTRIAL WIRING...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. Involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. Directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. PREREQ: Rdg plcmnt assmnt equiv or COREQ: 10838105 Intro to Rdg & Study Skills

LATHES 1...introduces the student to the characteristics and attributes of turning tools: follow engine lathe safety rules, identify engine lathe components, perform facing and center drilling operations, perform turning operations. COREQUISITE: 10462107 Tools & Msrmnt or PREREQUISITE: 31462325 Maint Tools & Msrmnt or CONDITION: 324571 Welding Fab LAYOUT AND RIGGING...prepares the learner to perform layout skills for industrial maintenance to include machine layout, proper rigging, installation, and leveling with emphasis on baseline layout, machine rigging and installation, machine leveling, and alignment procedures. Participants will obtain lift truck operation certification upon completion. COREQUISITE: 10462109 Maintenance Intro

MACHINE TOOL INTRODUCTION...prepares the learner with the skills to identify basic types of machining processes, follow standard shop safety rules, use semi-precision and precision measuring tools, perform workpiece layout procedures, identify metal composition and classification, follow cutoff machine safety rules, operate vertical and horizontal cutoff machines, follow sensitive drill press safety rules, identify drill press.

MAINTENANCE INTRODUCTION...prepares the learner to apply basic safety, mechanics, force, friction, work, and energy; learn terminology related to maintenance; introduction to threaded and non-threaded fasteners and concrete anchoring; learn to use precision measuring tools; introduction to single-phase and three-phase motor wiring. PREREQUISITE: 31462325 Maintenance Tools and Measurement or COREQUISITE: 10462107 Tools and Measurement

MAINTENANCE PRINT READING...prepares the learner to read prints; make isometric sketches; interpret orthographic projection drawings, to include sections, surface finishes, and tolerancing. The course when delivered in the evening is self-paced, open-entry/ exit, and designed for individualized student needs.

MICROCONTROLLER PROGRAMMING...introduces the student to concepts in basic digital programming, programming logic, electronic components, and Digital and Analog I/O.

MILLS 1...prepares the learner to identify vertical milling machine components, select cutting tools and workholding device(s), apply safety rules, set up the vertical milling machine, and mill square surfaces. COREQUISITE: 10462107 Tools and Measurement or PREREQUISITE: 31462325 Maintenance Tools and Measurement or CONDITION: 324571 Welding Fab

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

POWER TRANSMISSION..introduces the learner to belt, chain, and gear drives used in industrial maintenance applications, including v-belts, flat belts, timing belts, conveyor chains, roller chains, bevel gears, worm gears, helical gears, spur gears, couplings, and alignment with emphasis on identification, installation, repair, and maintenance. COREQUISITE: 10462127 Bearings and Lubrication or PREREQUISITE: 10462119 Bearings and Lubrication

PROGRAMMABLE CONTROLLERS - ALLEN BRADLEY...prepares the student to understand basic PLC structure and terminology; learn to create and troubleshoot basic PLC programs using the RSLOGIX 500 software and the RSLINX communication software; become familiar with communicating with programming SLC-500 PLCs. This course is highly computer based.

PUMPS, FLUID/AIR HANDLING...prepares the learner to identify, install, repair, and maintain common pumps and plumbing applications, including centrifugal pumps, diaphragm pumps, packing and seals, tubing, and installing hose and piping used with fluid and air handling. COREQUISITE: 10620155 Hydraulics & Pneumatics and 10462119 Power Transmission

ROBOTIC MECHANICAL MAINTENANCE...introduces the students to the robot teach pendant and robot jogging. Students will be taught to replace servo motors, recalibrate the robot and back up robot software and programs.

ROBOTICS INTRODUCTION...introduces the student to robotic axes, movement control, navigating the teach pendant, robotic frames, basic programming commands such as conditional branching, wait and call instructions. This class qualifies for 48 hours of Continuing Education Units (CEUs) for Electricians.

SAFETY AND WELDING FUNDAMENTALS...introduces the learner to the world of welding, weld shop safety practices, welding terminology, and welding machine setup to industry standards. Learners will be introduced to the three major welding processes: SMAW, GMAW, and GTAW and will build skills welding with each process in the flat and horizontal positions while using the common welding joints found in industry. The learner will process material using the two major hand-held cutting processes - Oxyfuel and PAC.

TOOLS AND MEASUREMENT...prepares the learner to use hand tools, precision measuring instruments, and torque tools.

TROUBLESHOOTING AND MACHINE REPAIR...prepares the learner to perform essential troubleshooting, repair, and preventive maintenance of various machine tools and installations used in industrial maintenance and to integrate the skills learned in the other maintenance courses to perform complete repair of machine tools. PREREQUISITE: 10620122 Industrial Wiring and 10462119 Power Transmission OR COREQUISITE: 10462117 Power Transmission AND 10462123 Pumps, Fluid/Air Handling

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of writing documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



EMERGENCY MEDICAL TECHNICIAN

Program Number 30-531-3 Technical Diploma • One Term

ABOUT THE PROGRAM

Injuries, trauma, sudden illness—medical emergencies can happen at any time, in any place. Survival often depends on the initial care the injured or severely ill person receives at the scene. If you are calm under pressure, compassionate, good at problem solving, and have the desire to help people in need, a career as an Emergency Medical Technician (EMT) may be an excellent choice for you.

PROGRAM OUTCOMES

- Prepare for incident response and EMS operations.
- Integrate pathophysiological principles and assessment findings to provide appropriate patient care.
- Demonstrate EMT skills associated with established standards and procedures for a variety of patient encounters.
- Communicate effectively with others.
- Demonstrate professional behavior.
- · Meet state competencies for EMT certification.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your schedule, complete Background Review form and discuss the results of the Student Success Questionnaire.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

Lakeshore Technical College's Emergency Medical Technician program prepares students to obtain the required licensure to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examination, or licensure for other states.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No. | Class Title Credit | (s) |
|-------------|------------------------------------------------|-----|
| | Term 1 | |
| 30531307 | Emergency Medical Technician Part 1 Lecture | 1 |
| 30531309 | Emergency Medical Technician Part 1 Lab | 1 |
| 10531105 | Emergency Medical Technician Part 2 Lecture | 3 |
| 10531106 | Emergency Medical Technician Part 2 Lab | 1 |

TOTAL 6

EMERGENCY MEDICAL TECHNICIAN PART 1 LAB...is the skills lab portion of the EMT Part I course content. Students will practice and be evaluated on the various EMT skills that apply to their EMT Part I lecture topics. Upon successful completion of EMT Part I lecture and lab classes, candidates will be eligible to participate in the National Registry exams for Wisconsin EMR certification. Students that are already certifed as WI EMRs may be eligible for Credit for Prior Learning in lieu of taking this course. CONDITION: 305313 EMT or 315311 EMT-Paramedic prog requirements met

EMERGENCY MEDICAL TECHNICIAN PART 1 LECTURE...is designed for future EMTs & Emergency Medical Responders includes: basic human anatomy, performing a patient assessment, traumatic injury management, airway management, and basic cardiac resuscitation. Upon successful completion of EMT Part I lecture & lab classes, candidates will be eligible to participate in the National Registry exams for Wisconsin EMR certification. Students that are certified as WI EMRs may be eligible for Credit Learning in lieu of taking this course. CONDITION: 305313 EMT or 315311 EMT-Paramedic program requirements met

EMERGENCY MEDICAL TECHNICIAN PART 2 LAB...is the skills lab portion of the EMT Part 2 course content. Students will practice and be evaluated on the various EMT skills that apply to their EMT Part 2 lecture topics. Upon successful completion of EMT Part 2 Lecture and Lab classes, candidates will be eligible to participate in the National Registry of EMTs Emergency Medical Technician exams for Wisconsin EMT licensure. PREREQUISITE: 30531301 EMT Part 1 or COREQUISITE: 30531309 EMT Part 1 Lab and CONDITION: 305313 EMT or 315311 EMT-Paramedic program requirements met

EMERGENCY MEDICAL TECHNICIAN PART 2 LECTURE...advances on the foundational concepts of Part 1 to include pharmacology, pathophysiology, operating an ambulance, and medication administration. Students will also complete a clinical rotation in a hospital Emergency Department. Upon successful completion of EMT Part 2 Lecture and Lab classes, candidates will be eligible to participate in the National Registry of EMTs Emergency Medical Technician exams for Wisconsin EMT licensure. PREREQUISITE: 30531301 EMT Part 1 or COREQUISITE: 30531307 EMT Part 1 Lecture and CONDITION: 305313 EMT or 315311 EMT-Paramedic program requirements met



EMT-PARAMEDIC

Program Number 31-531-1 Technical Diploma • Three Terms

ABOUT THE PROGRAM

Life can bring about unfortunate events of medical or traumatic emergency; a Paramedic is a highly trained and skilled medical professional ready to assist those in need. Paramedics integrate Advanced Life Support treatment measures into the challenging emergency healthcare environment. The Technical Diploma EMT-Paramedic is an entry level educated Paramedic meeting the minimum national educational standards.

PROGRAM OUTCOMES

- · Prepare for incident response and EMS operations.
- Integrate pathophysiological principles and assessment findings to provide appropriate care.
- Demonstrate paramedic skills associated with established standards and procedures for a variety of patient encounters.
- · Communicate effectively with others.
- Demonstrate professional behavior.
- Meet state and national competency listed for paramedic certification(s).

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/futurestudents/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Complete EMT license verification form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to discuss motor vehicle record, requirements, plan your first semester schedule, review your entire plan of study, and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester. **APPROXIMATE COSTS**

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/ tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

The Lakeshore Technical College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). 25400 US Highway 19 N., Suite 158, Clearwater, FL 33756. Phone: 727-210-2350. Web: www.caahep.org.

Lakeshore Technical College's EMT-Paramedic program prepares students to obtain the required licensure to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examination, or licensure for other states.

To complete the clinical portion of this program, site specific health and immunizataion documentation will be required.

RELATED PROGRAMS

Paramedic Technician Associate Degree
 Fire Medic

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | Class Title Cree | dit(s) |
|-------------|----------------------------------------|--------|
| | Term 1 (Spring) | |
| 10531911 | EMS Fundamental | 2 |
| 10531912 | Paramedic Medical Principles | 4 |
| 10531913 | Advanced Patient Assessment Principles | 3 |
| 10531914 | Advanced Pre-Hospital Pharmacology | 3 |
| 10531915 | Paramedic Respiratory Management | 2 |
| 10531916 | Paramedic Cardiology 1 | 1 |
| 10531926 | Paramedic Essentials 1 | 1 |
| 10531930 | Paramedic Clinical 1 | 1 |
| | | 17 |

Term 2 (Summer)

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| Advanced Emergency Resuscitation | 1 |
|----------------------------------|--------------------------------------------------------------------------------------|
| Paramedic Trauma | 3 |
| EMS Operations | 1 |
| Paramedic Essentials 2 | 1 |
| Paramedic Clinical 2 | 2 |
| Paramedic Cardiology 2 | 3 |
| | 11 |
| | Paramedic Trauma EMS Operations Paramedic Essentials 2 Paramedic Clinical 2 |

Term 3 (Fall)

| Paramedic Medical Emergencies | 4 |
|-------------------------------|-------------------------------------------------------------------------------------------------------|
| Special Patient Populations | 3 |
| Paramedic Capstone | 1 |
| Paramedic Field Clinical | 2 |
| Paramedic Internship | 1 |
| Paramedic Essentials 3 | 1 |
| | 12 |
| | Special Patient Populations Paramedic Capstone Paramedic Field Clinical Paramedic Internship |

TOTAL 40

To contact CoAEMSP: 8301 Lakeview Parkway, Suite 111-312 Rowlett, TX 75088 214-703-8445 Fax 214-703-8992 www.coaemsp.org

ADVANCED EMERGENCY RESUSCITATION...provides ACLS and PALS knowledge and skills preparing the student in the integration of comprehensive knowledge of causes and pathophysiology into the management of shock, respiratory failure, respiratory arrest, cardiac arrest, and peri-arrest with intervention to prevent respiratory and/or cardiac arrest if possible. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531916 Paramedic Cardiology

ADVANCED PATIENT ASSESSMENT PRINCIPLES...provides knowledge of scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531912 Paramedic Medical Principles

ADVANCED PRE-HOSPITAL PHARMACOLOGY...provides student with comprehensive knowledge of pharmacology required to formulate and administer a pharmacological treatment plan intended to mitigate emergencies and improve the health of the patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531913 Advanced Patient Assessment Principles

EMERGENCY MEDICAL TECHNICIAN PART 1 LAB...is the skills lab portion of the EMT Part I course content. Students will practice and be evaluated on the various EMT skills that apply to their EMT Part I lecture topics. Upon successful completion of EMT Part I lecture and lab classes, candidates will be eligible to participate in the National Registry exams for WI EMR certification. Students that are already certified as WI EMRs may be eligible for Credit for Prior Learning in lieu of taking this course. CONDITION: 305313 EMT or 315311 EMT-Paramedic program requirements met

EMERGENCY MEDICAL TECHNICIAN PART 1 LECTURE...is designed for future EMTs & Emergency Medical Responders includes: basic human anatomy, performing a patient assessment, traumatic injury management, airway management, and basic cardiac resuscitation. Upon successful completion of EMT Part I lecture & lab classes, candidates will be eligible to participate in the National Registry exams for Wisconsin EMR certification. Students that are certified as WI EMRs may be eligible for Credit Learning in lieu of taking this course. CONDITION: 305313 EMT or 315311 EMT-Paramedic program requirements met

EMERGENCY MEDICAL TECHNICIAN PART 2 LAB...is the skills lab portion of the EMT Part 2 course content. Students will practice and be evaluated on the various EMT skills that apply to their EMT Part 2 lecture topics. Upon successful completion of EMT Part 2 Lecture and Lab classes, candidates will be eligible to participate in the National Registry of EMTs Emergency Medical Technician exams for Wisconsin EMT licensure. PREREQUISITE: 30531301 EMT Part 1 or COREQUISITE: 30531309 EMT Part 1 Lab or WI EMR Certification and CONDITION: 305313 EMT or 315311 EMT-Paramedic program requirements met

EMERGENCY MEDICAL TECHNICIAN PART 2 LECTURE...advances on the foundational concepts of Part 1 to include pharmacology, pathophysiology, operating an ambulance, and medication administration. Students will also complete a clinical rotation in a hospital Emergency Department. Upon successful completion of EMT Part 2 Lecture and Lab classes, candidates will be eligible to participate in the National Registry of EMTs Emergency Medical Technician exams for Wisconsin EMT licensure. PREREQUISITE: 30531301 EMT Part 1 or 30531307 EMT Part 1 Lecture or WI EMR Certification and CONDITION: 305313 EMT or 315311 EMT-Paramedic program requirements met

EMS FUNDAMENTAL...provides comprehensive knowledge of EMS systems, safety, well-being, legal issues and ethical issues with intended outcome of improving EMS personnel, patients and the community. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and PREREQUISITES: 30531307, 30531309, 10531105, 10531106 EMT Lecture/Lab Parts 1 and 2 or EMT WI License

EMS OPERATIONS...provides the knowledge of operational roles and responsibilities to ensure patient, public and EMS personnel safety. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

MEDICAL EMERGENCIES...provides student the skills to integrate assessment findings with priciples of anatomy, physiology, epidemiology, & pathophysiology to formulate a field impression and implement a treatment plan for an acutely injured patient. CONDITION: 105311 Paramedic Tech or 315311 EMT Paramedic or 105312 Fire Medic prog reqs met and COREQUISITE: 10531918 Adv Emergency Resuscitation

PARAMEDIC CAPSTONE...provides the final opportunity to incorporate knowledge and skills through labs and scenario-based practice and evaluations prior to taking the NREMT written and practical exams. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or105312 Fire Medic program requirements met and COREQUISITE: 10531922 EMS Operations PARAMEDIC CARDIOLOGY 1...provides the principles of cardiovascular anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and a plan for a patient with a cardiovascular complaint. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531915 Paramedic Respiratory Management

PARAMEDIC CARDIOLOGY 2...continues the paramedic's knowledge of cardiology. Incorporates basic and advanced electrocardiogram rhythm interpretation as well as introduces students to Advanced Cardiovascular Life Support (ACLS).

PARAMEDIC CLINICAL 1...allows paramedics their first experiences providing advanced level skills and assessments on patients in a healthcare setting. Students will be assigned to an area hospital to begin their clinical training and meeting their assigned clinical competencies. Activities may include rotations within hospital emergency depts, operating rooms, intensive care units, and/or rotations with lab or respiratory staff. COREQUISITE: 10531911 EMS Fund and CONDITION: 105311 Paramedic Tech or 105312 Fire Medic or 315311 EMT Paramedic prog admission reqs met

PARAMEDIC CLINICAL 2...provides student with opportunity to enhance their learning through the skills practice in a health care environment experience with actual patients under the supervision of approved preceptors or high-fidelity human patient simulator. CONDITION: 105311 Paramedic Tech or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531930 Paramedic Clin 1

PARAMEDIC ESSENTIALS 1...reinforces student learning through practice of paramedicine in a controlled supervised environment utilizing hands on skills performed on simulated live patients and high-fidelity manikins and anatomy models. The student will apply assessment and skill knowledge while demonstrating paramedic level skills in a variety of scenarios and environments.

PARAMEDIC ESSENTIALS 2...reinforces student learning through practice of paramedicine in a controlled supervised environment utilizing hands on skills performed on simulated live patients and high-fidelity manikins and anatomy models. The student will evaluate patient presentations in short scenarios, formulate and reassess treatment plans while performing skills need to carry out patient treatments. Students will participate in learning and demonstrate first responder health and wellbeing during this section. CONDITION: 105311 Paramedic Technician or 105312 Fire Medic or 315311 EMT Paramedic program admission requirements met

PARAMEDIC ESSENTIALS 3...provides a continued growth in patient assessment, treatment plans and skills working toward the mastery of paramedic level patient care. The focus of this sections will include complete patient care, team management, responder health and wellbeing, and daily operations. Students will demonstrate mastery of knowledge and skills in classroom activities and extended scenarios.

PARAMEDIC FIELD CLINICAL...provides student with the opportunity to enhance their learning through the practice in the prehospital environment with actual patients under the supervision of approved preceptors. Students will be assigned to an area Paramedic ambulance service provider to incorporate their previously acquired capabilities into prehospital patient care. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

PARAMEDIC INTERNSHIP...demonstrates to paramedic students their team leadership capabilities while assessing, forumulating treatments plans, and delegating tasks to their EMS team members. Students will be assigned to an area paramedic ambulance service to complete requirements during this capstone field internship.

PARAMEDIC MEDICAL PRINCIPLES...provides the knowledge of anatomy, physiology and pathophysiology of major human systems while also introducing the students to shock, immunology and bleeding. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531911 EMS Fundamentals

PARAMEDIC RESPIRATORY MANAGEMENT...provides specific knowledge pertaining to the respiratory system and to ensure the student is prepared to formulate a field impression and implement a comprehensive treatment plan for a respiratory complaint. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531914 Advanced Prehospital Pharmacology

PARAMEDIC TRAUMA...provides the student the skills to integrate assessment findings with principles of anatomy, physiology, epidemiology and pathophysiology to formulate a field impression and implement a treatment plan for an acutely injured patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met

SPECIAL PATIENT POPULATIONS...provides the student the skills to integrate assessment findings with principles of antomy, physiology, epidemiology and pathophysiology to formulate a field impression and implement a treatment plan for patient with special needs. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531920 Paramedic Trauma



ENVIRONMENTAL ENGINEERING TECHNOLOGY

Catalog No. Class Title

Program Number 10-506-2 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

This associate degree program is designed to meet the need for environmental engineering technicians in Northeast Wisconsin. As a program grad, you're equipped with skills to analyze and test water, wastewater, air, and solid waste to ensure environmental protection and compliance while maintaining community health and safety. Typical careers include environmental engineering technician, water and waste water treatment plant and system operator, water resource specialist, environmental lab technician, environment compliance officer, water quality sampler, quality control inspector, and recycling coordinator. Program students have the option to be certified in 40 hour HAZWOPER WDNR Wastewater, Water, and/or Landfill Operator with completion of coursework and independent testing. With additional education, you may receive a BS in Environmental Engineering Technology.

PROGRAM OUTCOMES

- Create environmental reports in accordance with applicable standards.
- · Perform safe work practices.
- Examine the effects of pollution.
- · Evaluate environmental hazards.
- Utilize problem solving skills for DNR certification.

ADMISSION TO DO'S

- Work with NWTC Admissions Specialist to:
- Submit application and \$30 fee to NWTC.
- Complete the online Student Success Questionnaire.
- Meet with NWTC program advisor to discuss program details.
- Meet with LTC program counselor to discuss program details.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

This program is shared with Northeast Wisconsin Technical College (NWTC) in Green Bay. LTC students follow NWTC's admission process; however, they are able to attend 20 credits at the LTC Cleveland campus and the remainder of the credits at NWTC Green Bay.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

CONTACT

NWTC: Stephanie Willson-Wellhouse, Academic Advisor 920.498.6386 • stephanie.wilsonwellhouse@nwtc.edu LTC: Whitney Boucher, Program Counselor 920.693.1222 • whitney.boucher@gotoltc.edu

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|----------|--------------------------------------|-----|
| | Term 1 | |
| 10890101 | College 101 (Held at NWTC) | 1 |
| 10506146 | Intro to Environmental Science | 3 |
| | (Held at NWTC) | |
| 10506147 | Environmental Biology (Held at NWTC) | 4 |
| 10103121 | Excel - Level 1 | 1 |
| 10804113 | College Technical Math 1A | 3 |
| 10806134 | General Chemistry | 4 |
| | - | 16 |
| | | |

Credit(s)

Term 2

| 10506148 | Environmental Chemical Analysis | 4 |
|----------|-----------------------------------------|----|
| | (Held at NWTC) | |
| 10506168 | Intro to GIS (Held at NWTC) | 2 |
| 10506161 | Hydraulics and Hydrology (Held at NWTC) | 3 |
| 10607105 | AutoCAD & Civil 3D (Held at NWTC) | 2 |
| 10804114 | College Tech Math 1B (Held at NWTC) | 2 |
| 10801195 | Written Communication | 3 |
| | | 16 |

Term 3

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| 0506175 | Wastewater Treatment-Liquid | 3 |
|---------|------------------------------------------|----|
| | (Held at NWTC) | |
| 0620220 | Pumps: Fluid Moving Devices | 1 |
| | (Held at NWTC) | |
| 0506169 | Environmental Engineering Internship | 3 |
| | (Held at NWTC) OR 10481114 Intro to | |
| | Energy Mgmt (3 cr) OR 10093350 | |
| | Nutrient Mgmt Planning/Compliance (3 cr) | |
| 0506176 | Wastewater Treatment-Solids & Adv. | 3 |
| | (Held at NWTC) | |
| 0801196 | Oral/Interpersonal Communications | 3 |
| 0809198 | Introduction to Psychology | 3 |
| | | 16 |
| | | |

Term 4

| 10506152 | Industrial Safety & Emergency Response | 3 |
|----------|----------------------------------------------|---|
| | (Held at NWTC) | |
| 10506163 | Solid & Hazardous Waste (Held at NWTC) | 2 |
| 10506164 | Air Pollution Control Systems (Held at NWTC) | 2 |
| 10506166 | Ground Water & Distribution (Held at NWTC) | 3 |
| 10506167 | Surface Water & Distribution (Held at NWTC) | 3 |
| 10809172 | Introduction to Diversity Studies | 3 |
| | 1 | 6 |

TOTAL 64

Term 1 & 2: NWTC classes are held on Tuesdays & Thursdays Term 3 & 4: NWTC classes are held on Mondays & Wednesdays

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

AIR POLLUTION CONTROL SYSTEMS...identifies air quality problems, federal & state regulatory mechanisms, and types of emission control technology currently available. Monitoring emissions and ambient air quality are addressed. Course Typically Offered: Spring

AUTOCAD AND CIVIL 3D...covers AutoCAD working with templates, creating and manipulating layers; basic drawing, editing, and inquiry commands; blocks and attributes and plotting. Learners will also develop the ability to use AutoCAD Civil 3D in working with survey data, points and surfaces; site design features including parcels, alignments, profiles, grading, quantities and managing data. PREREQUISITE: acceptance to the Civil Engineering Technology program or Environmental Engineering Technology program

COLLEGE 101...students will utilize digital tools and resources to assess, explore, practice, apply, and evaluate both employability and learning skills. By establishing NWTC cultural values as hallmarks of success in academic, career, and personal settings the course encourages reflective, personalized development of a growth mindset and emphasizes the importance of making wise choices. To maximize the return on investment, students should take this course in their first semester as it identifies key expectations (hidden rules) of higher learning and professional employment.

COLLEGE TECHNICAL MATH 1A...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. COREQUISITE: Math placement assessment or equivalent

COLLEGE TECHNICAL MATH 1B...is a continuation of College Technical Math 1A. Topics include: measurement systems; computational geometry; right and oblique triangle trigonometry; and trigonometric functions on the unit circle. Emphasis will be on the application of skills to technical problems. PREREQUISITE: 10804196 College Tech Math 1A or 10804113 College Tech Math 1A or Math placement assessment equivalent or COREQUISITE: 10804118 Intermediate Algebra with Applications

ENVIRONMENTAL BIOLOGY...examines environmental problems from scientific, ethical, economic and sociological perspectives. Emphasis is placed on protection of the human environment with discussion of environmental issues and environmentally related public health concerns. PREREQUISITE: accepted into Environmental Engineering program or preprogram. Course Typically Offered: Fall

ENVIRONMENTAL CHEMICAL ANALYSIS...engages students in performing laboratory techniques to determine the suitability of supply sources and purification processes in the water and wastewater industries. PREREQUISITES: 10806134, General Chemistry with a "C" or better; 10804118, Interm Algebra w/Apps with a "C" or better. Course Typically Offered: Spring

ENVIRONMENTAL ENGINEERING INTERNSHIP...provides supervised onthe-job training in the application of theory, skills, and techniques in the Environmental Engineering profession. The internship earns three associate degree credits when 180 hours of work experience has been completed. Minimum instructor approval required.

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

GENERAL CHEMISTRY...covers the fundamentals of chemistry. Topics include the metric system, problem-solving, periodic relationships, chemical reactions, chemical equilibrium, properties of water; acids, bases, and salts; and gas laws. COREQUISITE: 78854773 Math Essentials for Chemistry and Reading placement assessment or equivalent

GROUND WATER & DISTRIBUTION...introduces learner to the physical, chemical, & biological principles of operation of groundwater and distribution systems. The basic unit processes, control parameters, and mathematical problem-solving related to groundwater facilities & distribution systems are introduced. Laboratory procedures and practices involved with operation of water analysis & treatment. PREREQS: 10506148 Env Chem Analysis; 10804118 Interm Algebra w/Apps. Course Typically Offered: Spring

HYDRAULICS AND HYDROLOGY...instructs the learner in hydrostatic pressure, continuity of flow, conservation of energy, flow in pipes under pressure, open channel flow, sewer design, rainfall, urban and agricultural runoff. PREREQUISITE: 10804113, College Technical Math 1A with a "C" or better

INDUSTRIAL SAFETY & EMERGENCY RESPONSE...emphaiszes state and federal regulations related to worker safety, industrial hygiene, and response to emergency situations. Emphasis is placed on response to releases of hazardous materials. Course Typically Offered: Fall

INTRO TO ENERGY MANAGEMENT...introduces the basic concepts of energy, utility systems, and utility rate structures; defines the need for energy management as an integral part of society at all levels. The course will present the various opportunities available to energy management students. INTRO TO ENVIRONMENTAL SCIENCE...is an introduction to the basic principles of environmental science including ecology, energy, resources, waste management, air, water, and soil pollution. Course Typically Offered: Fall

INTRO TO GIS...instructs learner in the terminology, software operation and interface, the creation and analysis of digital maps, and explores the data behind the maps in Geographic Information Systems. GIS is used to visualize real-world features, obtain information, and communicate the information to others. Course Typically Offered: Fall

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

NUTRIENT MANAGEMENT PLANNING AND COMPLIANCE...prepares student to be proficient in basic soil fertility and fertilizers with an emphasis on manure. This includes a basic understanding of crop fertility requirements and soil pH impacts. Soil lab analysis and field mapping will be integrated through the use of SNAP Plus as an industry standard in nutrient management planning software. Students will be prepared to complete the CCA certified crop advisor exam allowing them to write nutrient management plans. PREREQUISITE: 10090302 Basic Soils

ORAL/INTERPERSONAL COMMUNICATIONS...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PUMPS: INTRO TO FLUID MOVING DEVICES...provides the opportunity for the learner to develop the knowledge, skills, and understanding of pumps, the different classifications of pumps, the inner workings, general maintenance and pumping theory. Course Typically Offered: Fall

SOLID AND HAZARDOUS WASTE...identifies the hierarchy of and regulations related to solid and hazardous waste, the waste stream, pollution prevention and disposal strategies. Learn detection techniques and proper transporting and handling methods. Course Typically Offered: Spring

SURFACE WATER & DISTRIBUTION ...physical, chemical, and biological principles of operation of surface water treatment and distribution systems. The basic unit processes, control parameters, and mathematical problem-solving related to surface water treatment facilities and distribution systems are introduced, as well as the laboratory procedures and practices involved with operation of water analysis and treatment. PREREQUISITES: 10506148 Environmental Chem Analysis; 10804118 Interm Algebra w/Apps. Course Typically Offered: Spring

WASTEWATER TREATMENT-LIQUID...provides the learner with the physical, chemical, and biological principles associated with treating liquid flow streams in municipal and industrial wastewater treatment facilities. The basic unit processes, control parameters, hydraulics and mathematical problem-solving related to collection systems and treatment facilities are introduced. Laboratory procedures and practices involved with operation of liquid treatment processes. PREREQUISITE: 10506148 Environmental Chem Analysis

WASTEWATER TREATMENT-SOLIDS AND ADVANCED...provides the learner with the physical, chemical, and biological principles associated with advanced treatment of liquid flow streams and treatment of residual solids in municipal and industrial wastewater treatment facilities. The basic unit processes, control parameters, hydraulics and mathematical problem-solving related to advanced liquid and solids treatment facilities are introduced. Laboratory procedures and practices involved with operation of advanced liquid and solids treatment processes. PREREQUISITE: 10506175 Wastewater Treatment-Liquid

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

FIRE MEDIC

Credit(s)

2

2

1

3

3

3

4

3

2

1

3

3

12

Program Number 10-531-2 Associate Degree in Applied Science • Five Terms

Term 1 (Spring)

Catalog No. Class Title

ABOUT THE PROGRAM

A Firefighter Paramedic (Fire Medic) protects life and property through fire suppression, rescue, prevention, and emergency medical treatment capabilities. Graduates are highly trained in the modern firefighting techniques and Paramedic skills necessary to make them successful in the dynamic emergency services environment.

PROGRAM OUTCOMES

- Prepare for incident response and emergency operations.
- Integrate pathophysiological principles and assessment findings to provide appropriate patient care.
- · Demonstrate paramedic skills associated with established standards and procedures for a variety of patient encounters.
- · Communicate effectively with others.
- Demonstrate professional behavior.
- · Meet state and national competencies listed for paramedic certification(s).
- · Perform essential firefighting skills to reduce loss of life and property.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/futurestudents/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Complete EMT license verification form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to discuss motor vehicle record, plan your first semester schedule, review your entire plan of study, and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/ financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

- The Lakeshore Technical College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). 25400 US Highway 19 N., Suite 158, Clearwater, FL 33756. Phone: 727-210-2350. Web: www. caahep.org.
- Students will be required to acquire a Wisconsin Commercial Driver's Instructional Permit during the Fire Apparatus Engineer course.
- Lakeshore Technical College's program prepares students to obtain the required licensure to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examination, or licensure for other states.
- To complete the clinical portion of this program, site specific health and immunizataion documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| 10503145 | Firefighting Principles 1 | |
|----------|----------------------------------|---|
| 10503146 | Firefighting Principles 2 | |
| 10503913 | Company Level Inspections | |
| 10801195 | Written Communication | |
| 10809198 | Introduction to Psychology | |
| 10801196 | Oral/Interpersonal Communication | |
| | | 1 |
| | | |
| | Term 2 (Fall) | |
| 10503107 | Fire Apparatus Engineer | |
| 10503144 | Advanced Firefighting Concepts | |
| 10503914 | Fire Rescue Scenarios | |
| 10806189 | Basic Anatomy | |
| 10809166 | Introduction to Ethics | |

Term 3 (Spring)

| 10531911 | EMS Fundamental | 2 |
|----------|----------------------------------------|----|
| 10531912 | Paramedic Medical Principles | 4 |
| 10531913 | Advanced Patient Assessment Principles | 3 |
| 10531914 | Advanced Pre-Hospital Pharmacology | 3 |
| 10531915 | Paramedic Respiratory Management | 2 |
| 10531916 | Paramedic Cardiology 1 | 1 |
| 10531926 | Paramedic Essentials 1 | 1 |
| 10531930 | Paramedic Clinical 1 | 1 |
| | | 17 |
| | | |

Term 4 (Summer)

| 10531918 | Advanced Emergency Resuscitation | 1 |
|----------|----------------------------------|----|
| 10531922 | EMS Operations | 1 |
| 10531920 | Paramedic Trauma | 3 |
| 10531928 | Paramedic Clinical 2 | 2 |
| 10531927 | Paramedic Essentials 2 | 1 |
| 10531932 | Paramedic Cardiology 2 | 3 |
| | | 11 |

Term 5 (Fall)

| 10531919 | Medical Emergencies | 4 |
|----------|-----------------------------|----|
| 10531921 | Special Patient Populations | 3 |
| 10531923 | Paramedic Capstone | 1 |
| 10531929 | Paramedic Field Clinical | 2 |
| 10531931 | Paramedic Internship | 1 |
| 10531933 | Paramedic Essentials 3 | 1 |
| | | 12 |
| | | |

TOTAL 66

To contact CoAEMSP. 8301 Lakeview Parkway, Suite 111-312 Rowlett, TX 75088 214-703-8445 Fax 214-703-8992 www.coaemsp.org

ADVANCED EMERGENCY RESUSCITATION...provides ACLS and PALS knowledge and skills preparing the student in the integration of comprehensive knowledge of causes and pathophysiology into the management of shock, respiratory failure, respiratory arrest, cardiac arrest, and peri-arrest with intervention to prevent respiratory and/or cardiac arrest if possible. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531916 Paramedic Cardiology

ADVANCED FIREFIGHTING CONCEPTS...advances previously learned concepts to build a stronger foundation while exposing the learner to new concepts such as vehicle extrication, technical rescue, flammable liquids fire suppression, and team leadership/ management. This course meets the requirements of NFPA 1001 for the Firefighter II level. PREREQUISITE: 10503145 Firefighting Principles 1 and 10503146 Firefighting Principles 2

ADVANCED PATIENT ASSESSMENT PRINCIPLES...provides knowledge of scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. CONDITION: 105311 Paramedic Tech or 315311 EMT Paramedic or 105312 Fire Medic program reqs met and COREQUISITE: 10531912 Paramedic Medical Principles

ADVANCED PRE-HOSPITAL PHARMACOLOGY...provides student with comprehensive knowledge of pharmacology required to formulate and administer a pharmacological treatment plan intended to mitigate emergencies and improve the health of the patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program reqs met and COREQUISITE: 10531913 Adv Patient Assessment Principles

BASIC ANATOMY...examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems. COREQUISITE: Reading placement assessment or equivalent

COMPANY LEVEL INSPECTIONS...familiarizes the students with state and local regulations and national codes relating to fire prevention. The course presents the necessary information for performing company level fire inspections.

EMS FUNDAMENTAL...provides comprehensive knowledge of EMS systems, safety, wellbeing, legal issues and ethical issues with intended outcome of improving EMS personnel, patients and the community. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and PREREQUISITES: 10531102 EMT Basic or 30531301 EMT Part 1 or EMT WI License

EMS OPERATIONS...provides knowledge of operational roles and responsibilities to ensure patient, public & EMS personnel safety. CONDITION: 105311 Paramedic Tech or 315311 EMT Paramedic or 105312 Fire Medic prog reqs met and COREQ: 10531918 Adv Emerg Resuscitation

FIRE APPARATUS ENGINEER...prepares firefighters to drive and operate fire department emergency apparatus. Course presents theories of hydraulics applied to the fire service, with emphasis on mathematics, and formulas used in operating fire apparatus pumps. Students receive lecture and practical training on maintenance, driving, operating on-board pumps and equipment, and apparatus testing. Course content meets the NFPA 1002 requirement for fire department pumper driver/operator. THIS COURSE REQUIRES STUDENTS TO HAVE A CDL INSTRUCTIONAL PERMIT BY THE 3RD WEEK OF CLASS. CONDITION: 105312 Fire Medic prog reds met

FIRE RESCUE SCENARIOS...reinforces student learning through practice of firefighting skills in a controlled environment utilizing simulation and realistic fire-rescue scenarios with the guidance of instructors. COREQUISITES: 10503144 Advanced Firefighting Concepts and 10503107 Fire Apparatus Engineer

FIREFIGHTER PRINCIPLES PART 1...builds the foundation for a successful firefighting career. Topics presented will include personal protective equipment, firefighter safety, search and rescue, forcible entry, hoselines, awareness of hazardous materials, nozzles, salvage and overhaul, ground ladders, and entry level interior and exterior firefighting. Students successfully completing this course will meet the Wisconsin requirements for an entry level firefighter. CONDITION: 105312 Fire Medic enrollment requirements met

FIREFIGHTER PRINCIPLES PART 2...advances on the foundations presented in Part I. Students will acquire the remaining job performance requirements to meet National Firefighter level I qualifications. Topics will include: history of the fire service, ropes and knots, advanced forcible entry, size up and response priorities, fireground communications, hazardous materials operations, and preparation for the Firefighter Level I examination process. COREQUISITE: 10503145 FF Principles Part 1

INTRODUCTION TO ETHICS: THEORY AND APPLICATION...provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives will be used to analyze and compare relevant issues. Students will critically evaluate individual, social and/or professional standards of behavior, and apply a systematic decision-making process to these situations. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

MEDICAL EMERGENCIES...provides the student the skills to integrate assessment findings with priciples of anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a treatment plan for an acutely injured patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PARAMEDIC CAPSTONE...provides the final opportunity to incorporate knowledge and skills through labs and scenario-based practice and evaluations prior to taking the NREMT written and practical exams. CONDITION: 105311 Paramedic Tech or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531922 EMS Operations

PARAMEDIC CARDIOLOGY 1...provides the principles of cardiovascular anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and a plan for a patient with a cardiovascular complaint. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531915 Paramedic Respiratory Management

PARAMEDIC CARDIOLOGY 2... continues the paramedic's knowledge of cardiology. Incorporates basic and advanced electrocardiogram rhythm interpretation as well as introduces students to Advanced Cardiovascular Life Support (ACLS).

PARAMEDIC CLINICAL 1...allows paramedics their first experiences providing advanced level skills and assessments on patients in a healthcare setting. Students will be assigned to an area hospital to begin their clinical training and meeting their assigned clinical competencies. Activities may include rotations within hospital emergency departments, operating rooms, intensive care units, and/or rotations with lab or respiratory staff. COREQUISITE: 10531911 EMS Fundamentals and CONDITION: 105311 Paramedic Technician or105312 Fire Medic or 315311 EMT Paramedic program admission requirements met

PARAMEDIC CLINICAL 2...provides student with the opportunity to enhance their learning through the skills practice in a health care environment experience with actual patients under the supervision of approved preceptors or high-fidelity human patient simulator. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531930 Paramedic Clinical 1

PARAMEDIC ESSENTIALS 1...reinforces student learning through practice of paramedicine in a controlled supervised environment utilizing hands on skills performed on simulated live patients and high-fidelity manikins and anatomy models. The student will apply assessment and skill knowledge while demonstrating paramedic level skills in a variety of scenarios and environments.

PARAMEDIC ESSENTIALS 2...reinforces student learning through practice of paramedicine in a controlled supervised environment utilizing hands on skills performed on simulated live patients and high-fidelity manikins and anatomy models. The student will evaluate patient presentations in short scenarios, formulate and reassess treatment plans while performing skills need to carry out patient treatments. Students will participate in learning and demonstrate first responder health and wellbeing during this section. CONDITION: 105311 Paramedic Tech or 105312 Fire Medic or 315311 EMT Paramedic program admission reqs met

PARAMEDIC ESSENTIALS 3...provides a continued growth in patient assessment, treatment plans and skills working toward the mastery of paramedic level patient care. The focus of this sections will include complete patient care, team management, responder health and wellbeing, and daily operations. Students will demonstrate mastery of knowledge and skills in classroom activities and extended scenarios.

PARAMEDIC FIELD CLINICAL...provides student with the opportunity to enhance their learning through the practice in the prehospital environment with actual patients under the supervision of approved preceptors. Students will be assigned to an area Paramedic ambulance service provider to incorporate their previously acquired capabilities into prehospital patient care. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

PARAMEDIC INTERNSHIP...demonstrates to paramedic students their team leadership capabilities while assessing, forumulating treatments plans, and delegating tasks to their EMS team members. Students will be assigned to an area paramedic ambulance service to complete requirements during this capstone field internship.

PARAMEDIC MEDICAL PRINCIPLES...provides the knowledge of anatomy, physiology and pathophysiology of major human systems while also introducing the students to shock, immunology and bleeding. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531911 EMS Fundamentals

PARAMEDIC RESPIRATORY MANAGEMENT...provides specific knowledge pertaining to the respiratory system and to ensure the student is prepared to formulate a field impression and implement a comprehensive treatment plan for a respiratory complaint. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531914 Advanced Prehospital Pharmacology

PARAMEDIC TRAUMA...provides the student the skills to integrate assessment findings with principles of anatomy, physiology, epidemiology and pathophysiology to formulate a field impression and implement a treatment plan for an acutely injured patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program reqs met

SPECIAL PATIENT POPULATIONS...provides the student the skills to integrate assessment findings with principles of antomy, physiology, epidemiology and pathophysiology to formulate a field impression and implement a treatment plan for patient with special needs. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531920 Paramedic Trauma

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement

GENERAL STUDIES TRANSFER ASSOCIATE OF ARTS

Program Number 20-800-1 Liberal Arts - Associate of Arts • Four Terms

ABOUT THE PROGRAM

The Associate of Arts Degree Transfer Program serves students who intend to transfer to a four-year university. The program provides students with an excellent foundation to continue in higher education, with an emphasis in humanities and social sciences, focusing electives on furthering those content areas or on business education.

By completing the degree through LTC, students can transfer directly with junior status to Lakeland University or University of Wisconsin-Green Bay. Students will have enough flexibility for broad major exploration, regardless of a transfer destination. With an optional pre-business focus, students receive the education necessary to be successful in business and economics programs at four-year institutions. The program helps students meet most entry-level requirements and even some program requirements for bachelor's degrees in the field.

PROGRAM OUTCOMES

- Develop critical thinking skills to pose questions, process information, and make decisions.
- Recognize the contributions of diverse cultures to the improvement of the human condition in a global society.
- Compute and analyze data using mathematical, statistical, and logical methods to solve problems.
- · Use the scientific method within the natural science environment.
- Analyze and apply social science theories.
- Communicate by:
 - Listening actively.
 - Reading and comprehending written materials in the content area.
 - Researching, synthesizing, and organizing information.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$188.90 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

Financial Aid eligible pending HLC approval.

SPECIAL NOTE

- This program works in partnership with Lakeland University and University of Wisconsin-Green Bay. The receiving institution has final determination in the acceptance of credits.
 Students must earn a grade of C or better in each course for degree program
- completion.
- Credit for Prior Learning awarded for courses may be reviewed by receiving institutions.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | Class Title | Credit(s) |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|
| 10809198 10801198 10801196 10809172 | Term 1 Introduction to Psychology Speech Oral/Interpersonal Communication** (10809103 Thinking Critically & Creative Introduction to Diversity Studies ELECTIVE | |
| 10801136 10809166 10809196 10804189 | Term 2 English Composition 1 Intro to Ethics: Theory and Apps Introduction to Sociology Introductory Statistics ELECTIVE | 3 3 3 3 3 15 |
| 20801223 10809144 20802211 10806134 10546101 | Term 3 English Composition 2 Macroeconomics Spanish 1 OR 20802212 Spanish 2* 0 20809217 Race, Class, and Gender* General Chemisty OR 10806114 General Biology Stress Management: Fitness for Life | 3 3 DR 4/3 4 1 14/15 |
| 20801204 10806112 10809143 | Term 4 Introduction to Literature Principles of Sustainability Microeconomics OR 10809122 Introduction to American Government ELECTIVES | 3 3 3 6 15 |
| ELECTIVES 10101111 10102110 10196193 10104102 10182131 10804198 20802212 20809217 | | AL 60 4 3 3 3 4 4 4 3 |
| 10809188 | DN-SPECIFIC ELECTIVE OPTIONS: Developmental Psychology Lakeland University only Basic Anatomy | 3 3 |

*Spanish 2 or Race, Class, and Gender alternative if satisfied one year of world language in high school with

satisfied one year of world language in high school with "C" or better. Students taking Race, Class, and Gender will need an additional 1 credit of electives. **Check with your program counselor to plan courses

specific to your intended college transfer.

ENGLISH COMPOSITION 1...is designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing and revising are applied through a variety of activities. Students will analyze audience and purpose, use elements of research, and format documents using standard guidelines. Individuals will develop critical reading skills through analysis of various written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent.

ENGLISH COMPOSITION 2...advances composition skills, emphasizing well-reasoned argumentative writing. This course cultivates critical thinking and college-level discourse. Students conduct research using library and web-based sources, observations, and interviews, usinga formal documentation style. Students will read and analyze professional non-fiction texts to understand how writers develop and present ideas through writing. PREREQUISITE: 10801136 English Composition 1

GENERAL CHEMISTRY...covers the fundamentals of chemistry. Topics include the metric system, problem-solving, periodic relationships, chemical reactions, chemical equilibrium, properties of water; acids, bases, and salts; and gas laws. COREQUISITE: 78854773 Math Essentials for Chemistry and Reading placement assessment or equivalent

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO ETHICS: THEORY AND APPLICATION...provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives will be used to analyze and compare relevant issues. Students will critically evaluate individual, social and/or professional standards of behavior, and apply a systematic decisionmaking process to these situations. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO LITERATURE...introduces students to the major genres of literature and addresses issues related to writing about literature and/or other texts. A first course in literary analysis. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

MACROECONOMICS...is an introductory course. Basic social choices regarding economic systems, basic economic aggregates, fiscal policy, the banking system, monetary policy, and international trade are the principle topics discussed in the course. Balance is drawn between theory, analysis, and a critique of the institutions that characterize modern mixed-capitalist economies. Conflicting social goals, economic constraints, and environmental concerns provide the framework through which the macroeconomy is analyzed. COREQUISITE: Reading placement assessment or equivalent

MICROECONOMICS...examines the behavior of individual decision makers, primarily consumers and firms. Topics include choices of how much to consume and to produce, the functioning of perfectly and imperfectly competitive markets, the conditions under which markets may fail, and arguments for and against government intervention. The student applies the fundamental tools of economics to real world problems. COREQUISITE: Reading placement assessment or equivalent

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PRINCIPLES OF SUSTAINABILITY...prepares students to develop sustainable literacy, analyze interconnections among physical and biological sciences and environmental systems, summarize effects of sustainability on health and well-being, analyze connections among social, economic, and environmental systems, employ energy conservation strategies to reduce use of fossil fuels, investigate alternative energy options, evaluate options to current waste disposal/recycling in the U.S., and analyze approaches used by your community. COREQUISITE: Reading placement assessment or equivalent

SPANISH 1...is for students beginning the study of Spanish. Emphasizes development of basic communicative skills through practice in listening, speaking, reading and writing. Stresses vocabulary and grammar to enhance students' ability to speak and write inSpanish. Study of customs and values provides an increased awareness of Spanish speaking cultures. On completion students are expected to participate in uncomplicated conversations on everyday topics.

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

STRESS MANAGEMENT: FITNESS FOR LIFE...introduces strategies of stress management, including exercises, meditation, relaxation techniques, and mindfulness to develop resiliency, self-regulation, and coping skills.

THINKING CRITICALLY & CREATIVELY...introduces the student to vital, realistic, and practical methods of thinking which are in high demand in all occupations of substance today. Decision making, problem solving, detailed analysis of ideas, troubleshooting, argumentation, persuasion, creativity, setting goals and objectives, and more are considered in depth as the student applies specific thinking strategies and tools to situations in a wide variety of workplace, personal, academic, and cultural situations. COREQUISITE: Reading placement assessment or equivalent

GENERAL STUDIES TRANSFER ASSOCIATE OF SCIENCE

Program Number 20-800-2

Liberal Arts - Associate of Science • Four Terms

ABOUT THE PROGRAM

The Associate of Science Degree Transfer Program serves students who intend to transfer to a four-year university. The program provides students with an excellent foundation to continue in higher education, with an emphasis in math and science, focusing electives on furthering those content areas or on business education.

By completing the degree through LTC, students can transfer directly with junior status to Lakeland University or University of Wisconsin-Green Bay. Students will have enough flexibility for broad major exploration, regardless of a transfer destination. With an optional pre-business focus, students receive the education necessary to be successful in business programs at four-year institutions. The program helps students meet most entry-level requirements and even some program requirements for bachelor's degrees in the field.

PROGRAM OUTCOMES

- Develop critical thinking skills to pose questions, process information, and make decisions.
- Recognize the contributions of diverse cultures to the improvement of the human condition in a global society.
- Compute and analyze data using mathematical, statistical, and logical methods to solve problems.
- Use the scientific method within the natural science environment.
- · Analyze and apply social science theories.
- · Communicate by:
 - Listening actively.
 - Reading and comprehending written materials in the content area.
 - Researching, synthesizing, and organizing information.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$188.90 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

Financial Aid eligible pending HLC approval.

SPECIAL NOTE

- This program works in partnership with Lakeland University and University of Wisconsin-Green Bay. The receiving institution has final determination in the acceptance of credits.
- Students must earn a grade of C or better in each course for degree program completion.
- Credit for Prior Learning awarded for courses may be reviewed by receiving institutions.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Class Title | Credit(s) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Term 1 Introductory Statistics Principles of Sustainability Introduction to Psychology Introduction to Diversity Studies ELECTIVE | 3 3 3 3 3 15 |
| Term 2 English Composition 1 Calculus 1 General Biology Intro to Ethics: Theory and Apps Stress Management: Fitness for Life | 3 4 3 1 15 |
| Term 3 English Composition 2 General Chemistry Spanish 1 OR 20802212 Spanish 2* OR 20809217 Race, Class and Gend ELECTIVE | 3 4/3 er* 3 14/13 |
| Term 4 Speech General Physics 1 Macroeconomics OR 10809196 Introduction to Sociology Introduction to Literature ELECTIVE | 3 4 3 3 3 16 |
| тот | AL 60 |
| Spanish 2 Race, Class, and Gender | 4 3 3 3 3 3 3 4 3 |
| | Term 1 Introductory Statistics Principles of Sustainability Introduction to Psychology Introduction to Diversity Studies ELECTIVE Term 2 English Composition 1 Calculus 1 General Biology Intro to Ethics: Theory and Apps Stress Management: Fitness for Life Term 3 English Composition 2 General Chemistry Spanish 1 OR 20802212 Spanish 2* OR 20809217 Race, Class and Gend ELECTIVE Term 4 Speech General Physics 1 Macroeconomics OR 10809196 Introduction to Sociology Introduction to Literature ELECTIVE Torm S: Accounting 1 Introduction to Business Human Resource Management Oral/Interpersonal Communication Introduction to American Government Spanish 2 |

| 3 |
|---|
| |
| 3 |
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| |

*Spanish 2 or Race, Class, and Gender alternative if satisfied one year of world language in high school with "C" or better. Students taking Race, Class, and Gender will need an additional 1 credit of electives.

CALCULUS 1...teaches students to analyze and graph algebraic expressions, especially conic sections; to develop an intuitive understanding of limits, derivative and integrals; and to apply the derivative and the integral to certain physical problems. CONDITION: Math enrollment requirements met

ENGLISH COMPOSITION 1...is designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing and revising are applied through a variety of activities. Students will analyze audience and purpose, use elements of research, and format documents using standard guidelines. Individuals will develop critical reading skills through analysis of various written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

ENGLISH COMPOSITION 2...advances composition skills, emphasizing well-reasoned argumentative writing. This course cultivates critical thinking and college-level discourse. Students conduct research using library and web-based sources, observations, and interviews, usinga formal documentation style. Students will read and analyze professional non-fiction texts to understand how writers develop and present ideas through writing. PREREQUISITE: 10801136 English Composition 1

GENERAL BIOLOGY...introduces general biological concepts and principles. Emphasis is on cell structure and function, genetics, evolution, and taxonomical relationships. Consideration is also given to diversity among the various kingdoms. COREQUISITE: Reading placement assessment or equivalent

GENERAL CHEMISTRY...covers the fundamentals of chemistry. Topics include the metric system, problem-solving, periodic relationships, chemical reactions, chemical equilibrium, properties of water; acids, bases, and salts; and gas laws. COREQUISITE: 78854773 Math Essentials for Chemistry and Reading placement assessment or equivalent

GENERAL PHYSICS 1...presents the applications and theory of basic physics principles. This course emphasizes problem-solving, laboratory investigation, and applications. Topics include unit conversions and analysis, vectors, translational and rotational kinematics, translational and rotational dynamics, heat and temperature, and harmonic motion and waves. PREREQUISITE: 10804113 College Tech Math 1A or Math placement assessment or equivalent

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO ETHICS: THEORY AND APPLICATION...provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives will be used to analyze and compare relevant issues. Students will critically evaluate individual, social and/or professional standards of behavior, and apply a systematic decisionmaking process to these situations. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO LITERATURE...introduces students to the major genres of literature and addresses issues related to writing about literature and/or other texts. A first course in literary analysis. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

MACROECONOMICS...is an introductory course. Basic social choices regarding economic systems, basic economic aggregates, fiscal policy, the banking system, monetary policy, and international trade are the principle topics discussed in the course. Balance is drawn between theory, analysis, and a critique of the institutions that characterize modern mixed-capitalist economies. Conflicting social goals, economic constraints, and environmental concerns provide the framework through which the macroeconomy is analyzed. COREQUISITE: Reading placement assessment or equivalent PRINCIPLES OF SUSTAINABILITY...prepares students to develop sustainable literacy, analyze interconnections among physical and biological sciences and environmental systems, summarize effects of sustainability on health and well-being, analyze connections among social, economic, and environmental systems, employ energy conservation strategies to reduce use of fossil fuels, investigate alternative energy options, evaluate options to current waste disposal/recycling in the U.S., and analyze approaches used by your community. COREQUISITE: Reading placement assessment or equivalent

SPANISH 1...is for students beginning the study of Spanish. Emphasizes development of basic communicative skills through practice in listening, speaking, reading and writing. Stresses vocabulary and grammar to enhance students' ability to speak and write inSpanish. Study of customs and values provides an increased awareness of Spanish speaking cultures. On completion students are expected to participate in uncomplicated conversations on everyday topics.

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

STRESS MANAGEMENT: FITNESS FOR LIFE...introduces strategies of stress management, including exercises, meditation, relaxation techniques, and mindfulness to develop resiliency, self-regulation, and coping skills.

GRAPHIC AND WEB DESIGN

Program Number 10-201-2 Associate Degree in Applied Science • Four Terms

Catalog No. Class Title

ABOUT THE PROGRAM

Have you been told you have creative and visualization skills? Do you enjoy analyzing design decisions and often think it could have been done better? If you are attracted to the design elements of color, type, shape, illustration, and layout, then creating web sites and print-ready design solutions can be a very satisfying career choice. Graphic and web designers often thrive on competition and creative license; however, they must constantly adapt to the best solutions for the client. This field can draw out your creative talents and expand your business and marketing expertise. A minimum keyboarding skill of 25 wpm is recommended.

PROGRAM OUTCOMES

- · Apply the principles of design to develop strategic marketing and communication products and services.
- Demonstrate proficiency in the use of design software, tools, and technology.
- Implement creative solutions from concept through completion using a formal process.
- Apply effective legal and ethical business practices and project management skills.
- · Communicate artwork rationale in formal and informal settings.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTES

- Students are required to purchase specific Adobe Creative Cloud software. A student discount price is available at adobe.com.
- · Students will be required to purchase hosting and domain registration in Term 3. The approximate cost is \$50.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

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|----------|----------------------------|-----|
| | Term 1 | |
| 10201101 | Design Fundamentals | 3 |
| 10201108 | Photoshop | 3 |
| 10201109 | Illustration | 3 |
| 10801195 | Written Communication | 3 |
| 10809198 | Introduction to Psychology | 3 |
| | | 15 |
| | Term 2 | |
| 10103121 | Excel - Level 1 | 1 |

| 10103121 | Excel - Level 1 | 1 |
|----------|-------------------------|----|
| 10103191 | Word - Level 1 | 1 |
| 10152196 | Web Development 1 | 3 |
| 10201110 | InDesign | 3 |
| 10201114 | Typography | 2 |
| 10201115 | Digital Photography | 2 |
| 10804189 | Introductory Statistics | 3 |
| | | 15 |

Term 3

| 10152122 | Multimedia Concepts | 3 |
|----------|-------------------------------------|----|
| 10201117 | Career Essentials | 2 |
| 10201118 | Advancements in Web and Development | 2 |
| 10201173 | Website Development Advanced | 3 |
| 10801196 | Oral/Interpersonal Communication | 3 |
| 10809196 | Introduction to Sociology | 3 |
| | | 16 |

Term 4

| 10152106 | Integrated Web Concepts | 4 |
|----------|----------------------------------------|----|
| 10201103 | Advanced Computer Graphics | 3 |
| 10201105 | Internship for Graphics and Web Design | 1 |
| 10201113 | Print Design and Publication | 3 |
| 10809195 | Economics | 3 |
| | | 14 |

TOTAL 60

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

ADVANCED COMPUTER GRAPHICS...provides the learner with enhanced knowledge and skill in the use of design, illustration, and page layout software through the creation of a variety of design projects. Emphasis is on original, strong images and type integration, as well as preparing files for press. Students must participate in the spring portfolio show. PREREQ: 10201101 Design Fund, 10201110 InDesign, 10201173 or 10152118 or 10201119 Website Dev Advanced and COREQ: 10152106 Integrated Web Concepts and 10201113 Publication Design and CONDITION: 102012 Graphic and Web Design Admission requirements met

ADVANCEMENTS IN WEB AND DEVELOPMENT...will explore the latest trends in Web design and development. Students will apply advanced techniques to create progressive and contemporary websites. PREREQUISITE: 10152196 Web Development 1

CAREER ESSENTIALS...will teach students how to create effective career documents for a job search such as Graphic and Web Designer including resume, business card, and cover letter. Students will also learn how to set up a freelance business, how to find jobs as a freelancer, and the basics of owning their own business. Students will analyze their design strengths and gather portfolio artifacts that showcase their skills in the Graphic and Web Design field. COREQUISITE: 10201173 Web Development Advanced

DESIGN FUNDAMENTALS...introduces the learner to the elements of art (line, texture, color, shape and value.) Students will investigate how these elements can be manipulated using various principles of design to achieve different effects. Basic color theory, historic eras, and emerging trends will be covered.

DIGITAL PHOTOGRAPHY...will help the individual understand photographic principles and file manipulation. Through in-class discussions, audio visuals, camera demonstrations, and in-the-field shooting sessions, the individual will learn shooting and lighting techniquesdesigned to capture a better image. Printing, cropping, retouching and file management will also be covered. PREREQUISITE: 10201108 Photoshop

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

ILLUSTRATION...prepares the learner to use Adobe's standard vector graphics software to create digital art. The course will cover the basics of computer illustration and its use in print and web media. Students will work with objects, the pen, brushes, text, color, special effects, symbols, and gradients as they create portfolio-quality art.

INDESIGN...prepares the learner to use a professional page layout program. Learners will develop brochures, mailers, business documents and newsletters by implementing text layout techniques, using multiple master pages, managing styles, using text adjustment tools, working with libraries, and managing long documents for print production. Projects developed will be used to build the students' portfolio. PREREQUISITE: 10201101 Design Fundamentals and 10201108 Photoshop

INTEGRATED WEB CONCEPTS...introduces students in the Web and Software Developer, Graphic and Web Design, and Marketing programs to working within interdisciplinary teams. Through the building of all aspects of an application, each team will select and utilize design thinking processes and US/UI tools, prototype potential design solutions, ask for, give, and receive directive feedback, and effectively communicate and persuasively present ideas to an interdisciplinary audience. PREREQ: 10104136 Retail Marketing/Ecommerce and 101043 Mktg req met or 10152109 Object-Oriented Program 1, 10152123 Mobile Device Dev 1 and 101527 IT Web and Soft Dev req met or 10201173 Web Dev Advanced and 102012 Graphic and Web req met

INTERNSHIP FOR GRAPHIC AND WEB DESIGN...requires students to complete 72 hours of performing work in a business/industrial service setting related to their program objectives. Students are responsible for seeking and obtaining the internship workstation position. Course requirements include maintaining a log of work activities, identifying and receiving approval from the job supervisor and instructor, and completing a work-related project. The field study may be substituted based on instruction decision. Students meet periodically at LTC. COREQUISITE: 10201113 Publication Design and CONDITION: Verification of eligibility by the Internship Coordinator

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

MULTIMEDIA CONCEPTS...will teach students how to create various multimedia elements including video, audio, and basic animation. PREREQUISITE: 10152196 Web Development 1

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PHOTOSHOP...introduces the learner to using Adobe Photoshop to edit, enhance, and combine digital images which are prepared for print and web media. Topics will include photo correction, masks, channels, page backgrounds, brushes and optimizes images for web use.

PRINT DESIGN AND PUBLICATION...will focus on creating and designing print material using desktop publishing software. The emphasis is on design and preparing files for print. A variety of documents, including brochures, annual reports, flyers, magazine articles, and multipage documents are created. Students also explore packaging design fundamentals using dielines and folds. PREREQUISITE: 10201110 InDesign, 10201108 Photoshop, 10201109 Illustration

TYPOGRAPHY...introduces the learner to the fundamentals of Typography. Emphasis is on the structure and form of type and how it is used in contemporary graphic design. Projects explore the history of type, and the creation of design using type elements. COREQUISITE: 10201110 InDesign and CONDITION: 102012 Graphic and Web Design Admission requirements met

WEB DEVELOPMENT 1...introduces the students to web page design principles and proceeds to teach students how to create their own visually appealing designs for the web. Students will have hands-on experience using current versions of Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) to code and format accessible, valid, and optimized websites. Websites will be published live on the web using FTP. Students also explore recent trends in web design and development.

WEBSITE DEVELOPMENT ADVANCED...builds on student knowledge of web design software. Student knowledge is extended beyond basic page design to include web page interaction and dynamic page building. Students will have handson experience developing complex web pages. PREREQUISITE: 10152196 Web Development 1

WORD - **LEVEL** 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

HEALTH INFORMATION MANAGEMENT

Program Number 10-530-4 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Health Information professionals (HIM) are highly trained in the latest information management technology applications. They have an understanding of healthcare workflow processes, from large hospital systems to small physician practices, and are vital to the daily operation management of health information and electronic health records (EHR). They ensure a patient's health information is complete, accurate, and protected. The Bureau of Labor Statistics cites HIM as one of the fastest growing occupations in the US.

PROGRAM OUTCOMES

- · Manage health data.
- Apply coding and reimbursement systems.
- · Model professional behaviors and ethics.
- Maintain electronic applications to manage health information.
- · Apply organizational management techniques.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Read the program handbook and submit the signed signature page.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Lakeshore Technical College's Health Information Management Associate degree program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIM).

This program is partially Competency-Based. Competency-Based Education (CBE) is learning at your own pace by mastering competencies through a combination of online work and in person demonstration of skills. Competency-Based courses are noted with an asterisk (*).

To complete the clinical portion of this program, site specific health and immunization documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. Class Title | Credit(s) |
|-------------------------|-----------|
| | |

Term 1

| 10501115 | Medical Terminology - Part 1* | 1 |
|----------|----------------------------------------|---|
| 10501116 | Medical Terminology - Part 2* | 1 |
| 10501117 | Medical Terminology - Part 3* | 1 |
| 10103191 | Word - Level 1* | 1 |
| 10501107 | Digital Literacy for Healthcare | 2 |
| 10530182 | Human Diseases for Health Professions | 3 |
| 10530141 | Introduction to the Healthcare System* | 1 |
| 10530142 | Introduction to the Medical Record* | 1 |
| 10530143 | Medical Record Processes* | 1 |
| 10806189 | Basic Anatomy OR 10806177 General | 3 |
| | Anatomy & Physiology (4 cr) | |

Term 2

| 10801195 | Written Communication | 3 |
|----------|-----------------------------------|---|
| 10530164 | Intro to Health Informatics | 3 |
| 10809172 | Introduction to Diversity Studies | 3 |
| 10103121 | Excel - Level 1* | 1 |
| 10530178 | Healthcare Law and Ethics | 2 |
| 10530133 | ICD Diagnosis Coding Part 1* | 1 |
| 10530134 | ICD Diagnosis Coding Part 2* | 1 |
| 10530135 | ICD Diagnosis Coding Part 3* | 1 |
| 10103101 | Access - Level 1* | 1 |
| | | |

Term 3

| 10530130 | CPT Coding Part 1* | 1 |
|----------|----------------------------------|----|
| 10530131 | CPT Coding Part 2* | 1 |
| 10530132 | CPT Coding Part 3* | 1 |
| 10809198 | Introduction to Psychology | 3 |
| 10530136 | Introduction to PCS Coding* | 1 |
| 10530137 | Application of PCS Coding * | 1 |
| 10530147 | HIM/Coding Practicum Part 1* | 1 |
| 10530148 | HIM/Coding Practicum Part 2* | 1 |
| 10801196 | Oral/Interpersonal Communication | 3 |
| 10809196 | Introduction to Sociology | 3 |
| | | 16 |

Term 4

| 10530138 | Healthcare Revenue Mgmt: Payment | 1 |
|----------|-----------------------------------------|----|
| | Methodologies* | |
| 10530139 | Healthcare Revenue Mgmt: Revenue | 1 |
| | Compliance* | |
| 10530140 | Healthcare Revenue Mgmt: Revenue Cycle* | 1 |
| 10530193 | Healthcare Quality Management | 2 |
| 10530177 | Healthcare Stats & Research | 2 |
| 10530194 | HIM Organizational Resources | 2 |
| 10530144 | 3M Coding System* | 1 |
| 10530145 | Find a Code Coding System* | 1 |
| 10530146 | Nuance Coding System* | 1 |
| 10530192 | HIM Practicum 2 | 2 |
| | | 14 |
| | | |

TOTAL 61

15

16

3M CODING SYSTEM...prepares learner to utilize 3M Coding System to complete coding scenarios. COREQS: 10530131 CPT Coding Pt 2, 10530132 CPT Coding Pt 3, 10530134 ICD Diagnosis Coding Pt 2, 10530135 ICD Diagnosis Coding Pt 3, 10530137 App of PCS Coding

ACCESS-LEVEL 1...introduces students to the process of creating a database, building and populating a table, establishing table relationships, and creating queries, forms, and reports.

APPLICATION OF PCS CODING...prepares the learner to assign ICD-PCS procedure codes as they apply to all of the body systems and miscellaneous procedures. COREQUISITE: 10530136 Introduction to PCS Coding

BASIC ANATOMY...examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems. COREQUISITE: Reading placement assessment or equivalent

CPT CODING PART 1...prepares the learner to apply the rules of CPT Medical Coding as they relate to the format and conventions, evaluation and management, medicine, and ancillary services (lab/x-ray) and HCSPS.

CPT CODING PART 2...prepares the learner to apply the rules of CPT Medical Coding as they relate to digestive, urinary, reproductive, neurologic, and sensory systems. COREQUISITE: 10530130 CPT Coding Part 1

CPT CODING PART 3...prepares the learner to apply the rules of CPT Medical Coding as they relate to the integumentary, musculoskeletal, circulator, respiratory systems, and anesthesia. COREQUISITE: 10530131 CPT Coding Part 2

DIGITAL LITERACY FOR HEALTHCARE...focuses on use of technology in healthcare. Learners use common business software applications, including word processing, presentation, spreadsheet, and databases. Communication methods using technology are addressed. Learners gain experience with using the electronic health record (EHR). Healthcare EHR security issues, social media use, and digital healthcare resources are examined.

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

FIND A CODE CODING SYSTEM...prepares the learner to utilize Find a Code Coding System to complete coding scenarios. COREQUISITE: 10530144 3M Coding System

HC REV MANAGEMENT: PAYMENT METHODOLOGIES...prepares the learner to compare government and non-government payers and payment methodologies.

HC REV MANAGEMENT: REVENUE COMPLIANCE...prepares the learner to apply various payment methodologies while ensuring compliance with regulations and future trends. COREQUISITE: 10530138 HC Revenue Mgmt Payment Methodologies

HC REV MANAGEMENT: REVENUE CYCLE...prepares learner to conduct activities of and manage the revenue cycle. COREQ: 10530139 HC Revenue Mgmt Revenue Compliance

HEALTHCARE LAW & ETHICS...examines regulations for the content, use, confidentiality, disclosure, and retention of health information. An overview of the legal system and ethical issues are addressed. PREREQUISITE: 10530162 Foundations of HIM or 10530143 Medical Record Processes

HEALTHCARE QUALITY MANAGEMENT...explores the programs and processes used to manage and improve healthcare quality. Addresses regulatory requirements as related to performance measurement, assessment, and improvement, required monitoring activities, risk management and patient safety, utilization management, and medical staff credentialing. Emphasizes the use of critical thinking and data analysis skills in the management and reporting of data. PREREQ: 10530162 Endths of HIM or 10530143 Medical Record Processes

HEALTHCARE STATS & RESEARCH...explores the management of medical data for statistical purposes. Focuses on descriptive statistics, including definitions, collection, calculation, compilation, and display of numerical data. Vital statistics, registries, and research are examined. PREREQUISITE: 10103121 Excel - Level 1 and 10530162 Foundations of HIM or 10530143 Medical Record Processes

HIM ORGANIZATIONAL RESOURCES...examines the principles of management to include planning, organizing, human resource management, directing, and controlling as related to the health information department. PREREQUISITE: 10530162 Foundations of HIM or 10530143 Medical Record Processes

HIM PRACTICUM 2...applies previously acquired skills and knowledge and discussion of clinical situations. Prepares for the certification examination and pre-graduation activities. This is the second of a two-semester sequence of supervised technical and managerial clinical experiences in health care facilities. PREREQUISITE: 10530191 HIM/Coding Practicum 1 or 10530148 HIM/Coding Practicum Pt 2 and 10530162 Foundations of HIM or 10530143 Medical Record Processes and CONDITION: 105304 Health Information Mngmnt program reqs met

HIM/CODING PRACTICUM PART 1...prepares learner to evaluate the Patient Registration, Medical Coding, and Medical Claims process in a clinical setting. COREQS: 10530131 CPT Coding Pt 2, 10530132 CPT Coding Pt 3, 10530134 ICD Diagnosis Coding Pt 2, 10530135 ICD Diagnosis Coding Pt 3, 10530137 Application of PCS Coding

HIM/CODING PRACTICUM PART 2...prepares the learner to complete a Resume Preparation, Interview Process and Portfolio Project. COREQUISITES: 10530131 CPT Coding Part 2, 10530132 CPT Coding Part 3, 10530134 ICD Diagnosis Coding Part 2, 10530135 ICD Diagnosis Coding Part 3, 10530137 Application of PCS Coding

HUMAN DISEASE FOR HEALTH PROFESSIONS...prepares learners to interpret clinical documentation they will encounter in a variety of healthcare settings. Emphasis placed on understanding the common disorders and diseases of each body system to include the etiology (cause), signs and symptoms, diagnostic tests and results, and medical treatments and surgical procedures. COREQUISITES: 10501101 Med Term or 10501117 Med Term-Pt 3 ICD DIAGNOSIS CODING PART 1...prepares the learner to examine the rules of ICD classification systems and assign ICD diagnosis codes to infectious, endocrine, metabolic, digestive, respiratory systems, injuries, poisonings, and signs/symptoms.

ICD DIAGNOSIS CODING PART 2...prepares the learner to assign ICD diagnosis codes as they relate to neoplasms, nervous, eye, ear, genitourinary, pregnancy, perinatal, and congenital disorders. COREQUISITE: 10530133 ICD Diagnosis Coding Part 1

ICD DIAGNOSIS CODING PART 3...prepares learner to assign ICD diagnosis codes as they relate to blood, circulatory, behavioral/mental health, skin, musculoskeletal diseases, and miscellaneous factors influencing health care. COREQ: 10530133 ICD Diag Coding Pt 1

INTRO TO HEALTH INFORMATICS...emphasizes the role of information technology in healthcare through an investigation of the electronic health record (EHR), business, and health information software applications. Learners will develop skills to assist in enterprise information management and database architecture design and implementation. PREREQUISITES: 10530162 Foundations of HIM or 10530143 Medical Record Processes and 10501107 Digital Literacy for Healthcare

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PCS CODING...prepares the learner to examine the rules of the ICD-PCS procedure coding classification system and assign codes that describe the root operation of the PCS classification system.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. Involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. Directs student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO THE HC SYSTEM...prepares the learner to evaluate various influences on the healthcare system such as external forces, types of organizations, and roles and responsibilities of healthcare providers.

INTRODUCTION TO THE MEDICAL RECORD...prepares the learner to demonstrate professional ethical standards while examining data collection tools and information governance. COREQUISITE: 10530141 Intro to the Healthcare System

MEDICAL RECORDS PROCESSES...prepares the learner to perform medical record processes and examine data sources while maintaining quality standards. COREQUISITE: 10530142 Intro to the Medical Record

MEDICAL TERMINOLOGY-PART 1...focuses on component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of integumentary, respiratory, and urinary systems, as well as systemic and surgical terminology.

MEDICAL TERMINOLOGY-PART 2...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of reproductive systems, cardiovascular system, and the lymphatic and immune systems as well as systemic and surgical terminology. COREQUISITE: 10501115 Medical Terminology-Part 1

MEDICAL TERMINOLOGY-PART 3...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of digestive, skeletal, muscular, sensory, nervous, and endocrine as well as systemic and surgical terminology. COREQUISITE: 10501116 Medical Terminology - Part 2

NUANCE CODING SYSTEM...prepares the learner to utilize Nuance Coding system to complete coding scenarios. COREQUISITE: 10530145 Find a Code Coding System

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent.



HIGH SCHOOL EQUIVALENCY DIPLOMA (HSED) 5.09

ABOUT THE PROGRAM

The High School Equivalency Diploma (HSED) 5.09 is competency based and serves the adult learner 18 1/2 years or older. This program is designed to award a high school equivalency diploma through the 5.09 option to those individuals who master the required competencies. The competencies are covered through a series of courses and are assessed through a variety of means. This is an alternative to traditional GED testing.

ADMISSION TO DO'S

- Attend an orientation session at either LTC Sheboygan or LTC Manitowoc.
- To register at LTC Sheboygan call 920.208.5888.
- To register at LTC Manitowoc call 920.683.2846.
- Complete an assessment of skill level using the Test for Adult Basic Education (TABE) during the orientation.
- · Students are strongly encouraged to provide an official high school transcript.

APPROXIMATE COSTS

- State Administrative Fee \$15.00
- Wisconsin State Civics Exam \$10.00

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

Obtaining one's HSED can allow workers to obtain or retain employment. With this credential, students can also transition into college-level work and begin a college career.

SPECIAL NOTE

Courses are available in a morning or evening schedule that allows a student to complete in as few as 12 months. To complete the HSED 5.09 program, students are required to pass the Wisconsin State Civics Exam.

Catalog No. Class Title

| 74860740C1 | Computer Basics I |
|------------|-----------------------------|
| 74860750C1 | Computer Basics 2 |
| 76851782 | 5.09 Communication Skills 2 |
| 76854770 | Pre-College Math 5.09 |
| 76854775 | Pre-Algebra 5.09 |
| 76856780 | Science 5.09 |
| 76857780 | Health 5.09 |
| 76858788 | 5.09 Communication Skills 1 |
| 76859780 | Social Studies 5.09 |
| 76859781 | Civics 5.09 |
| 76862711C1 | Career Awareness |
| 76862712E1 | Employability Skills |
| 76851770 | Keyboarding Beginning |

Curriculum requirements are subject to change. Class start dates vary.

5.09 COMMUNICATION SKILLS 1...emphasizes development of Communication skills. Learners will create an oral presentation and written documents by applying listening skills, developing interpersonal skills, communicating ideas orally, and participating in group projects. Learners will comprehend and react critically to a range of written materials and apply the mechanics of writing.

5.09 COMMUNICATION SKILLS 2...emphasizes continued development of communication skills. Learners will communicate effectively using current technology, using a variety of informational resources, developing vocabulary strategies, and processing written material effectively. Learners will produce original written materials using a variety of strategies.

CAREER AWARENESS...provides the participant with the skills to develop a career plan of action; review current occupational trends; identify career and financial resources; assess their values, interest, and abilities as they relate to career decision making; identify interest areas in relation to career cluster; match personal characteristics with occupations; and establish short-term and long-term career goals.

CIVICS 5.09...emphasizes the concepts of government and citizenship. Learners will understand the functions of state, county, and local governments, principles of U.S. constitutional government, the role of the consumer and the government, political parties and interest groups, and the rights and responsibilities of U.S. citizenship.

COMPUTER BASICS 1...is designed for the adult learner to become familiar and comfortable working on a computer. Learners will understand computer terminology, and develop academic and workplace computer skills. This course also prepares the learner to keyboard and format business memorandums, business letters, business reports and tabbed columns.

COMPUTER BASICS 2...is designed for adult learners to strengthen computer skills needed to be successful in an academic setting. Learners will use presentation software, access course materials in a Learning Management System, create tables and multicolumn documents, use SmartArt, create and modify styles and create and use templates and building blocks. Emphasis is placed on proofreading and editing skills.

EMPLOYABILITY SKILLS...enhances the participant's ability to successfully seek and obtain employment by analyzing the changing job market; formulating a career objective matching their values, interests and skills; evaluating methods for finding employment; creating a resume to match their job objective; composing a letter of application; completing a job application; and preparing for a job interview.

HEALTH 5.09...emphasizes concepts of health and wellness as well as human growth and development.

KEYBOARDING BEGINNING...prepares the student to use good keyboarding techniques, keyboard the alphabetic keys by touch, keyboard numeric and symbol keys, and keyboard with speed and accuracy.

PRE-ALGEBRA 5.09...emphasizes radical numbers, basic geometry and measurement, basic statistics and probability, graphs, simple scientific notation, and solving simple algebraic equations. Learners will use basic measurement tools and use calculators in problem solving. Learners will apply math concepts in real-world context including financial literacy, consumer applications, and Manurfacturing trades applications.

PRE-COLLEGE MATH 5.09...emphasizes the four basic operations using whole numbers, fractions, decimals, percents, and integers in calculations and situational problems. Learners will solve problems using ratios and proportions, exponents, and the order of operations. Learners will apply math concepts in real-world context including financial literacy, consumer applications, and manufacturing trades applications.

SCIENCE 5.09...emphasizes and explores the basic scientific processes using multiple content applications from the life and physical sciences, including physics, chemistry, and environmental science. Learners will integrate science skills based on their personal interests and career goals.

SOCIAL STUDIES 5.09...emphasizes building knowledge in the areas of United States History, World History, Economics, and Geographic regions of the world.

HUMAN RESOURCE ADMINISTRATION

Catalog No. Class Title

Program Number 10-116-1 Associate Degree in Applied Science • Varies

ABOUT THE PROGRAM

If you enjoy structuring and administering programs and policies designed to help employees be productive and safe in the workplace, then human resource administration is a good career for you. Knowing the laws, regulations, and internal policies of an organization and administering them humanely and fairly is the human resource administrator's responsibility. This growing and dynamic field has excellent future career growth potential.

PROGRAM OUTCOMES

- · Create an organizational workforce plan.
- Develop training programs.
- · Incorporate employment law into business practices.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

This program is also offered in an online delilvery format. Contact an advisor for details.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| | Term 1 | |
|----------|----------------------------------------|----|
| 10103191 | Word - Level 1 | 1 |
| 10103121 | Excel - Level 1 | 1 |
| 10196193 | Human Resource Management | 3 |
| 10116105 | Recruitment and Retention of Employees | 3 |
| 10116127 | HR Technology | 2 |
| 10449114 | Safety in the Workplace | 3 |
| 10801195 | Written Communication | 3 |
| | | 16 |

Term 2

| | | 15 |
|----------|-------------------------------|----|
| 10103161 | Power Point - Level 1 | 1 |
| 10809198 | Introduction to Psychology | 3 |
| 10116103 | Training for Organizations | 3 |
| 10116125 | Human Resource Employment Law | 3 |
| 10196191 | Supervision | 3 |
| 10101106 | Payroll Applications | 2 |
| | | |

Term 3

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1

| 10804123 | Math with Business Applications | 3 |
|----------|----------------------------------------|----|
| 10116109 | Career Planning & Networking | 1 |
| 10116102 | Compensation & Benefits Administration | 3 |
| 10116107 | Labor Relations and Negotiations | 2 |
| 10809195 | Economics | 3 |
| 10801196 | Oral/Interpersonal Communication OR | 3 |
| | 10801198 Speech (3 cr) | |
| | | 15 |

Term 4

| 0116124 | Strategic Performance Management | 3 |
|---------|--------------------------------------|---|
| 0101155 | Accounting for Professionals | 3 |
| 0809172 | Introduction to Diversity Studies | 3 |
| 0116168 | Organizational Development | 2 |
| 0116106 | InternshipHuman Resources OR | 3 |
| | 10138101 Intro to Global Business OR | |
| | 10116128 HR Studies | |
| | | |

14

Credit(s)

TOTAL 60

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

REAL EXPERIENCE FOR THE REAL WORLD

ACCOUNTING FOR PROFESSIONALS...is the study of the information that can be interpreted from financial statements. Students analyze financial statements and apply managerial accounting concepts in an accelerated format. PREREQUISITE: 10804123 Math w Business Applications or CONDITION: 101101 Paralegal program requirements met

CAREER PLANNING & NETWORKING...focuses on the process of researching and pursuing professional career opportunities. Students will develop resume and cover letter documentation to accurately reflect personal, academic, and professional accomplishments and the connection that these elements have to various positions with employers. Interviewing skills will be a significant aspect of this experience with a focus on interviews for potential internship opportunities.

COMPENSATION AND BENEFITS ADMINISTRATION...applies the skills and tools necessary to design, implement and manage a compensation and benefits program as a tool for recruitment, retention and performance management of employees.

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

HR TECHNOLOGY...introduces the learner to the ever-increasing use of technology in the human resource function with special attention paid to mobile computing, social media, human resource information and management systems, cloud computing, and surveying mechanisms.

HUMAN RESOURCE MANAGEMENT...applies the skills/tools necessary to effectively value and apply employees' abilities and needs to organization goals. Learners will demonstrate the application of the supervisor's role in contemporary human resources management, impacts of EEOC, writing job descriptions, recruitment, selection, conducting job interviews, orientation, developing policies/procedures, training, performance management, employee counseling/development, and effective use of compensation and benefit strategies.

HUMAN RESOURCES EMPLOYMENT LAW...applies the skills/tools necessary to effectively value and apply employees' abilities and needs to organization goals. Learners will demonstrate the legal application of the HR role as it impacts EEOC, writing job descriptions, recruitment, selection, conducting job interviews, orientation, developing policies/procedures, training, performance management, employee counseling/development, and effective use of compensation and benefit strategies. Learners will also learn the proper way to conduct a workplace investigation.

INTERNSHIP-HUMAN RESOURCES...requires students to complete 72 to 216 hours (1 to 3 credits) of performing work in a business/industrial service setting related to their Human Resource program objectives. Students are responsible for seeking and obtaining the internship workstation position. Course requirements include maintaining a log of work activities, identifying and receiving approval from the job supervisor and instructor, and completing a work-related project. Students meet periodically at LTC. PREREQUISITE: 10116109 Career Planning & Networking and CONDITION: Verification of eligibility by instructor coord of Hum Res prog (student must have at least 30 credits of Hum Res prog courses)

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

LABOR RELATIONS AND NEGOTIATIONS...introduces the participant to the history of the labor movement and includes the legal collective bargaining processes while applying the learned skills with case studies, a mock negotiation of a realistic collective bargaining contract, and the simulation of a grievance arbitration. MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

ORGANIZATIONAL DEVELOPMENT....describes what organizations do and how managers contribute to the success of organizational activities and structures. This course will walk through the role of a HR Business Partner in a changing organization. Students will learn models, theprocess, research and application of change management and organization development principles. This course will also teach how organizational development ties with employee development and retention by introducing strategies to provide employees with the opportunity to learn and grow in their careers.

PAYROLL APPLICATIONS...introduces students to federal and state payroll laws; calculations for gross and net income; prepare payroll deductions; and maintain payroll records.

POWERPOINT - LEVEL 1...introduces the student to the program by planning and creating a presentation, adding media and special effects, and applying advanced formatting to objects.

RECRUITMENT & RETENTION OF EMPLOYEES...applies and skills and tools necessary to hire and retain qualified employees. Legal issues, testing, screening, interviewing, selecting and negotiating techniques will be demonstrated and assessed for each learner.

SAFETY IN THE WORKPLACE...applies the skills and tools necessary to provide a safe and secure work environment. Each learner will demonstrate the application of safety awareness, federal/state/local compliance, incident investigation and documentation, human relations techniques, safety orientation, inspections, and risk analysis, issues of workplace violence, substance abuse, and health hazards, first aid and CPR, fire and electrical safety, emergency preparedness, and liaison with external agencies.

STRATEGIC PERFORMANCE MANAGEMENT...prepares the student to consolidate, analyze, and display data at varying levels of detail in order to make human capital decisions in the workplace. Provides students information they need to enhance employee competencies, establish developmentplans, evaluate performance, and identify succession scenarios. PREREQUISITE: 196193 Human Resource Management and CONDITION: Verification of eligibility by instructor coord of Hum Res prog (student must have at least 30 credits of Hum Res prog courses)

SUPERVISION...allows the learner to apply the skills and tools necessary to perform the functions of a frontline leader. Students learn the application of strategies and transition to a contemporary supervisory role including day-to-day operations, controlling, staffing, leadership, problem-solving, team skills, motivation, and training.

TRAINING FOR ORGANIZATIONS...applies the skills and tools necessary to implement the training cycle of assessment, design, implementation and evaluation. Each learner will develop and present a complete training project based upon adult learning theory and instructional design techniques.

WORD - **LEVEL** 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



PART-TIME • DAYS HUMAN RESOURCE ADMINISTRATION

Program Number 10-116-1 Associate Degree in Applied Science

Catalog No. Credit(s) Class Title Term 1 (Fall 2023) 10103191 Word - Level 1 10103121 Excel - Level 1 1 3 10196193 Human Resource Management 10449114 Safety in the Workplace 3 8 Term 2 (Spring 2024) 10101106 Payroll Applications 2 10196191 Supervision 3 10809198 Introduction to Psychology 3 8 Term 3 (Summer 2024) 10801195 Written Communication 3 10116103 Training for Organizations 3 6 Term 4 (Fall 2024) 10116105 Recruitment and Retention of Employees 3 10116127 HR Technology 2 10116109 Career Planning & Networking 1 6 Term 5 (Spring 2025) 10804123 Math with Business Applications З 10116125 Human Resource Employment Law 3 10809172 Introduction to Diversity Studies 3 9 Term 6 (Summer 2025) 10801196 Oral Interpersonal Communication OR 10801198 3 Speech (3 cr) 10103161 Power Point - Level 1 4 Term 7 (Fall 2025) 2 10116107 Labor Relations and Negotiations 10116102 Compensation & Benefits Administration 3 10101155 Accounting for Professionals 3 8 Term 8 (Spring 2026) 10116124 Strategic Performance Management 3 10116106 Internship--Human Resources OR 10138101 Intro 3 to Global Business OR 10116128 HR Studies 10116168 Organizational Development 2 8 Term 9 (Summer 2026) 10809195 Economics 3 3 **TOTAL 60**

ABOUT THE PROGRAM

If you enjoy structuring and administering programs and policies designed to help employees be productive and safe in the workplace, then human resource administration is a good career for you. Knowing the laws, regulations, and internal policies of an organization and administering them humanely and fairly is the human resource administrator's responsibility. This growing and dynamic field has excellent future career growth potential.

PROGRAM OUTCOMES

- · Create an organizational workforce plan.
- Develop training programs.
- · Incorporate employment law into business practices.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc. edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

 Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

This program is also offered in an online delilvery format. Contact an advisor for details.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

> Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.



ACCOUNTING FOR PROFESSIONALS...is the study of the information that can be interpreted from financial statements. Students analyze financial statements and apply managerial accounting concepts in an accelerated format. PREREQUISITE: 10804123 Math w Business Applications or CONDITION: 101101 Paralegal program reqs met

CAREER PLANNING & NETWORKING...focuses on the process of researching and pursuing professional career opportunities. Students will develop resume and cover letter documentation to accurately reflect personal, academic, and professional accomplishments and the connection that these elements have to various positions with employers. Interviewing skills will be a significant aspect of this experience with a focus on interviews for potential internship opportunities.

COMPENSATION AND BENEFITS ADMINISTRATION...applies the skills and tools necessary to design, implement and manage a compensation and benefits program as a tool for recruitment, retention and performance management of employees.

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

HR TECHNOLOGY...introduces the learner to the ever-increasing use of technology in the human resource function with special attention paid to mobile computing, social media, human resource information and management systems, cloud computing, and surveying mechanisms.

HUMAN RESOURCE MANAGEMENT...applies the skills/tools necessary to effectively value and apply employees' abilities and needs to organization goals. Learners will demonstrate the application of the supervisor's role in contemporary human resources management, impacts of EEOC, writing job descriptions, recruitment, selection, conducting job interviews, orientation, developing policies/procedures, training, performance management, employee counseling/development, and effective use of compensation and benefit strategies.

HUMAN RESOURCES EMPLOYMENT LAW...applies the skills/tools necessary to effectively value and apply employees' abilities and needs to organization goals. Learners will demonstrate the legal application of the HR role as it impacts EEOC, writing job descriptions, recruitment, selection, conducting job interviews, orientation, developing policies/procedures, training, performance management, employee counseling/development, and effective use of compensation and benefit strategies. Learners will also learn the proper way to conduct a workplace investigation.

INTERNSHIP-HUMAN RESOURCES...requires students to complete 72 to 216 hours (1 to 3 credits) of performing work in a business/industrial service setting related to their Human Resource program objectives. Students are responsible for seeking and obtaining the internship workstation position. Course requirements include maintaining a log of work activities, identifying and receiving approval from the job supervisor and instructor, and completing a work-related project. Students meet periodically at LTC. PREREQUISITE: 10116109 Career Planning & Networking and CONDITION: Verification of eligibility by instructor coord of Hum Res prog (student must have at least 30 credits of Hum Res prog courses)

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

LABOR RELATIONS AND NEGOTIATIONS...introduces the participant to the history of the labor movement and includes the legal collective bargaining processes while applying the learned skills with case studies, a mock negotiation of a realistic collective bargaining contract, and the simulation of a grievance arbitration. MATH WITH BUSINESS APPLICATIONS...covers real numbers, basic operations, linear equations, proportions with one variable, percents, simple interest, compound interest, annuity, apply math concepts to the purchasing/buying process, apply math concepts to the selling process, and basic statistics with business/consumer applications. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

ORGANIZATIONAL DEVELOPMENT....describes what organizations do and how managers contribute to the success of organizational activities and structures. This course will walk through the role of a HR Business Partner in a changing organization. Students will learn models, theprocess, research and application of change management and organization development principles. This course will also teach how organizational development ties with employee development and retention by introducing strategies to provide employees with the opportunity to learn and grow in their careers.

PAYROLL APPLICATIONS...introduces students to federal and state payroll laws; calculations for gross and net income; prepare payroll deductions; and maintain payroll records.

POWERPOINT - LEVEL 1...introduces the student to the program by planning and creating a presentation, adding media and special effects, and applying advanced formatting to objects.

RECRUITMENT & RETENTION OF EMPLOYEES...applies and skills and tools necessary to hire and retain qualified employees. Legal issues, testing, screening, interviewing, selecting and negotiating techniques will be demonstrated and assessed for each learner.

SAFETY IN THE WORKPLACE...applies the skills and tools necessary to provide a safe and secure work environment. Each learner will demonstrate the application of safety awareness, federal/state/local compliance, incident investigation and documentation, human relations techniques, safety orientation, inspections, and risk analysis, issues of workplace violence, substance abuse, and health hazards, first aid and CPR, fire and electrical safety, emergency preparedness, and liaison with external agencies.

STRATEGIC PERFORMANCE MANAGEMENT...prepares the student to consolidate, analyze, and display data at varying levels of detail in order to make human capital decisions in the workplace. Provides students information they need to enhance employee competencies, establish developmentplans, evaluate performance, and identify succession scenarios. PREREQUISITE: 196193 Human Resource Management and CONDITION: Verification of eligibility by instructor coord of Hum Res prog (student must have at least 30 credits of Hum Res prog courses)

SUPERVISION...allows the learner to apply the skills and tools necessary to perform the functions of a frontline leader. Students learn the application of strategies and transition to a contemporary supervisory role including day-to-day operations, controlling, staffing, leadership, problem-solving, team skills, motivation, and training.

TRAINING FOR ORGANIZATIONS...applies the skills and tools necessary to implement the training cycle of assessment, design, implementation and evaluation. Each learner will develop and present a complete training project based upon adult learning theory and instructional design techniques.

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



HUMAN RESOURCES ASSISTANT

Program Number 31-116-1 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

This technical diploma, Human Resources Assistant, provides you with a range of entry level and intermediate skills that are needed to perform basic human resources job functions. The credential 'ladders' up to the full two-year Associate Degree, Human Resource Administration. If you enjoy assisting in structuring and administering programs and policies designed to help employees be productive and safe in the workplace, then human resources assistant is a good career for you. The technical degree holder will assist in recruitment, apply basic workplace safety and legal principles to a variety of employment situations, conduct basic payroll functions, assist in and facilitate employee training and development programs, and serve as a customer service representative for a human resources department. This growing and dynamic field has excellent future career growth potential.

PROGRAM OUTCOMES

- · Create an organizational workforce plan.
- Develop training programs.
- · Incorporate employment law into business practices.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along
- with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

This program is also offered in an online delivery format. Contact your program advisor for details.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No | . Class Title Crec | lit(s) |
|------------|----------------------------------------|--------|
| | Term 1 | |
| 10103191 | Word - Level 1 | 1 |
| 10103121 | Excel - Level 1 | 1 |
| 10196193 | Human Resource Management | 3 |
| 10116105 | Recruitment and Retention of Employees | 3 |
| 10116127 | HR Technology | 2 |
| 10449114 | Safety in the Workplace | 3 |
| 10801195 | Written Communication | 3 |
| | | 16 |

Term 2

| 10101106 | Payroll Applications | 2 |
|----------|-------------------------------|----|
| 10196191 | Supervision | 3 |
| 10116125 | Human Resource Employment Law | 3 |
| 10116103 | Training for Organizations | 3 |
| 10809198 | Introduction to Psychology | 3 |
| 10103161 | PowerPoint - Level 1 | 1 |
| | | 15 |

TOTAL 31

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

2023-24

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

HR TECHNOLOGY...introduces the learner to the ever-increasing use of technology in the human resource function with special attention paid to mobile computing, social media, human resource information and management systems, cloud computing, and surveying mechanisms.

HUMAN RESOURCE MANAGEMENT...applies the skills/tools necessary to effectively value and apply employees' abilities and needs to organization goals. Learners will demonstrate the application of the supervisor's role in contemporary human resources management, impacts of EEOC, writing job descriptions, recruitment, selection, conducting job interviews, orientation, developing policies/procedures, training, performance management, employee counseling/development, and effective use of compensation and benefit strategies.

HUMAN RESOURCES EMPLOYMENT LAW...applies the skills/tools necessary to effectively value and apply employees' abilities and needs to organization goals. Learners will demonstrate the legal application of the HR role as it impacts EEOC, writing job descriptions, recruitment, selection, conducting job interviews, orientation, developing policies/procedures, training, performance management, employee counseling/development, and effective use of compensation and benefit strategies. Learners will also learn the proper way to conduct a workplace investigation.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

PAYROLL APPLICATIONS...introduces students to federal and state payroll laws; calculations for gross and net income; prepare payroll deductions; and maintain payroll records.

POWERPOINT - LEVEL 1...introduces the student to the program by planning and creating a presentation, adding media and special effects, and applying advanced formatting to objects.

RECRUITMENT & RETENTION OF EMPLOYEES...applies and skills and tools necessary to hire and retain qualified employees. Legal issues, testing, screening, interviewing, selecting and negotiating techniques will be demonstrated and assessed for each learner.

SAFETY IN THE WORKPLACE...applies the skills and tools necessary to provide a safe and secure work environment. Each learner will demonstrate the application of safety awareness, federal/state/local compliance, incident investigation and documentation, human relations techniques, safety orientation, inspections, and risk analysis, issues of workplace violence, substance abuse, and health hazards, first aid and CPR, fire and electrical safety, emergency preparedness, and liaison with external agencies.

SUPERVISION...allows the learner to apply the skills and tools necessary to perform the functions of a frontline leader. Students learn the application of strategies and transition to a contemporary supervisory role including day-to-day operations, controlling, staffing, leadership, problem-solving, team skills, motivation, and training.

TRAINING FOR ORGANIZATIONS...applies the skills and tools necessary to implement the training cycle of assessment, design, implementation and evaluation. Each learner will develop and present a complete training project based upon adult learning theory and instructional design techniques.

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

LAKESHORE TECHNICAL COLLEGE

HVAC & BUILDING TRADES FUNDAMENTALS

Catalog No. Class Title

Program Number 31-601-2 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

The HVAC & Building Trades Fundamentals Diploma is a great first step for an entrylevel position in the Heating, Ventilation, Air Conditioning, and Refrigeration (HVACR) fields. This training prepares individuals to install residential and light commercial HVACR systems used for the environmental control of buildings and product processes. It also provides instruction in construction trades fundamentals.

PROGRAM OUTCOMES

- Install HVACR (heating, ventilating, air conditioning, refirgeration) systems.
- Troubleshoot HVACR (heating, ventilating, air conditioning, refirgeration) systems.
- · Perform HVACR (heating, ventilating, air conditioning, refirgeration) performance tests.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

| 10410101 10413105 10410102 10804107 10442100 10601110 | Term 1 Intro to Construction Basic Electricity for Construction Trades Blueprint Reading for Building Construction College Mathematics Welding Introduction Mechanical Service Applications | 2 2 3 1 3 |
|----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|
| | Term 2 | |
| 10601201 | HVAC Foundations | 1 |
| 10601201 | HVAC Duct Systems | 1 |
| 10601203 | HVAC Piping Applications | 1 |
| 10601204 | HVAC Electrical - Theory | 1 |
| 10601205 | HVAC Electrical - Applications | 1 |
| 10601206 | HVAC Heating Systems & Sizing | 1 |
| 10601207 | HVAC Residential Furnace Installation | 1 |
| 10601208 | HVAC Residential Furnace Startup | 1 |
| 10601209 | HVAC Airflow Principles | 1 |
| 10601210 | HVAC Air Conditioning - Theory | 1 |
| 10601211 | HVAC Air Conditioning - Installation | 1 |
| 10601212 | HVAC Air Conditioning - Startup | 1 |
| 10601213 | HVAC Hydronic Heating Systems - Theory | 1 |
| 10601214 | HVAC Hydronic Heating Systems - Installation | 1 |
| 10601215 | HVAC Mini-Split Systems | 1 |
| | | |

TOTAL 28

15

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

BASIC ELECTRICITY FOR CONSTRUCTION TRADES...provides practical DC/AC concepts to introduce various components, electrical quantities, and measuring values in DC and AC circuits. Circuit measurement of voltage, current, and resistance will be taken with analog and digital meters applying basic concepts. The student will learn about electrical theory, electrical safety, basic circuit design, measuring equipment, general wiring practices, motors, and transformers.

BLUEPRINT READING FOR BUILDING CONSTRUCTION...provides instruction in reading and interpreting shop drawings, residential drawings, and commercial building plans. Emphasis is placed on building terminology and learning conventional techniques of communicating building methods from the designerto the builder. Students learn to visualize the structure and to interpret elevations, plan views, details, and sections from drawings. They also learn to read and interpret building specifications.

COLLEGE MATHEMATICS...is designed to review and develop fundamental concepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2) geometry and trigonometry; and 3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators. COREQUISITE: Math placement assessment or equivalent

HVAC AIR CONDITIONING - INSTALLATION...allows the learner to apply their knowledge and air conditioning theory in a laboratory setting on actual air conditioning systems. Students will gain hands-on experience identifying and operating various air conditioning and various related appliance systems. COREQUISITE: 10601210 HVAC Air Conditioning-Theory or PREREQUISITE: 10601113 HVAC Air Conditioning-Applications and CONDITION: CBE HVAC Assessment

HVAC AIR CONDITIONING - STARTUP...permits the learner to commission a residential air conditioning system and apply their previous knowledge and skill to troubleshoot common cooling system faults as well as replace frequently damaged components. COREQUISITE: 10601211 HVAC Air Conditioning-Installation or PREREQUISITE: 10601114 HVAC Air Conditioning-Startup/Troubleshoot and CONDITION: CBE HVAC Assessment

HVAC AIR CONDITIONING - THEORY...explains the fundamental operating concepts of the refrigeration cycle. Common systems, components, and refrigerants will be discussed and the association between temperature and pressure of cooling systems will be explored. CONDITION: CBE HVAC Assessment

HVAC AIRFLOW - PRINCIPLES...instructs the learner in evaluating and testing natural gas and propane heating appliances. Major components and controls are identified, and the proper methods of troubleshooting and diagnosing are learned and practiced. Evaluating proper airflow patterns, combustion safety, and system performance for systems are emphasized. The main objective is to assist the technician to work on a variety of gas-fired appliances when the course is completed. CONDITION: CBE HVAC Assessment

HVAC DUCT SYSTEMS...introduces the learner to sheet metal layout and duct fabrication. Students will gain experience in the sheet metal fabrication lab and hone their skills in sheet metal HVAC fabrication. Alternative ducting materials such as fiberglass and fabric ducting will also be discussed. CONDITION: CBE HVAC Assessment

HVAC ELECTRICAL - APPLICATIONS...allows learners to apply the concepts learned in their Electrical Theory class. Learners will use multimeters to gain basic parameters and troubleshoot various HVAC electrical components. COREQUISITE: 10601204 HVAC Electrical-Theory or PREREQUISTE:10601104 HVAC Electrical-Theory and CONDITION: CBE HVAC Assessment

HVAC ELECTRICAL - THEORY...presents to the learner the basic electrical theory of Alternating and Direct Current. Students will study transformers, motors, and other HVAC specific electrical components. CONDITION: CBE HVAC Assessment

HVAC FOUNDATIONS...provides students with the foundations of HVAC. Students will learn about the HVAC industry, the fundamentals of HVAC installation and service techniques, basic tools and, as well as trade mathematics. Professional licensure, certification, and various HVAC career paths will also be discussed. CONDITION: CBE HVAC Assessment

HVAC HEATING SYSTEMS AND SIZING...focuses on the types of heating systems, forms of heat transfer and how they relate to the various HVAC heating systems in compliance with manual J. The basic operations of gas, oil, electric, and hydronic heating systems will be presented. COREQUISITES: 10601202 HVAC Duct Systems and 10601203 HVAC Piping Applications or PREREQUISITES: 10601102 HVAC Duct Systems and 10601103 HVAC Piping-Applications and CONDITION: CBE HVAC Assessment

HVAC HYDRONIC HEATING SYSTEMS - INSTALLATION...continues the student's hydronic heating education to include practical application with in-floor heating systems, radiators, boilers, and other common hydronic systems and components. COREQUISITE: 10601213 HVAC Hydronic Heating Systems-Theory and CONDITION: CBE HVAC Assessment

HVAC HYDRONIC HEATING SYSTEMS - THEORY...introduces the learner to hydronic heating systems, where fluid (usually water) is used to transfer heat. The various heating sources (gas oil, or electricity) for heating the water boiler will be presented and discussed. CONDITION: CBE HVAC Assessment

HVAC MINI SPLIT SYSTEMS...introduces students to the various components that make up these systems and will be able to install, troubleshoot, and service this equipment per manufacturer's instructions. CONDITION: CBE HVAC Assessment

HVAC PIPING APPLICATIONS...presents to learners the copper, PVC, flexible, and black iron piping practices. Students will learn the skills to measure, cut, form, and connect various HVAC piping materials. This course will include extensive practice with threading, press fitting, brazing, and gluing practices for piping applications. CONDITION: CBE HVAC Assessment

HVAC RESIDENTIAL FURNACE INSTALLATION...allows hands-on application of the knowledge learned in the heating systems theory class. Students will be identifying the various heating system components and differentiating the various heating systems. COREQUISITE: 10601206 HVAC Heating Systemsand Sizing or PREREQUISITE: 10601107 HVAC Heating Systems-Applications and CONDITION: CBE HVAC Assessment

HVAC RESIDENTIAL FURNACE STARTUP...permits the learner to commission various heating systems and apply their previous knowledge and skill to troubleshoot common heating system faults as well as replace frequently damaged components. COREQUISITE: 10601207 HVAC Residential Furnace Installation or PREREQUISITE: 10601108 HVAC Heating Systems-Startup/Troubleshoot and CONDITION: CBE HVAC Assessment

INTRODUCTION TO CONSTRUCTION...provides the learner with an overview of the various construction trades including framing, roofing, masonry block work, masonry flat work, electrical, HVAC, plumbing, and finish cabinetry work.

MECHANICAL SERVICE APPLICATIONS...students will learn and apply skills related to mechanical applications regarding hand and power tools, brazing, black pipe, PVC, Pex, electrical conduit, and basic sheet metal for flashing and ducts.

SAFETY AND WELDING FUNDAMENTALS...introduces the learner to the world of welding, weld shop safety practices, welding terminology, and welding machine setup to industry standards. Learners will be introduced to the three major welding processes: SMAW, GMAW, and GTAW and will build skills welding with each process in the flat and horizontal positions while using the common welding joints found in industry. The learner will process material using the two major hand-held cutting processes - Oxyfuel and PAC.

INDUSTRIAL ELECTRICIAN • **APPRENTICE**

Program Number 50-413-1 **4-Year Contract**

Credit(s)

2.5

Work Hours (including related instruction): 8320 Related Instruction Hours: 720 • Night School Hours: 8

Catalog No. Class Title

ABOUT THE APPRENTICESHIP

Apprenticeships are employer-sponsored training programs. You must have a contract before being invited to school. A special application process is used for these programs. Please contact the Apprenticeship Office for the proper forms. Apprenticeship means you earn while you learn. If you want a career in a skilled trade, apprenticeship is the best way to get there. You'll combine on-the-job training with on campus learningyou'll have the best of both worlds when it comes to learning the skills you need to get ahead. And even better, you'll earn a paycheck while you learn those skills.

ABOUT THE CAREER

Industrial electricians maintain and repair many different types of electrical equipment. In addition, they modify and install electrical equipment such as motors, transformers, generators, controls, instruments, lighting systems, and power distribution. Typical duties of this trade include performing preventative maintenance; replacing units or parts such as wiring, fuses, circuit breakers, coils or switches; measuring, cutting, bending, threading and installing conduits; using such devices as test lamps, volt-ohm meters and oscilloscopes; working from blueprints, drawings, and diagrams; making mathematical computations to determine the current carrying capacities of electrical wire and equipment; and troubleshooting AC and DC drives and programmable logic controllers.

CAREERS

Graduates of LTC's Industrial Electrician Apprenticeship program work as journey-level industrial electricians in commercial, industrial, and public establishments.

INDUSTRIAL APPRENTICE APPLICATION REQUIREMENTS

- · Determined by employer
- Wisconsin Apprentice Contract

PROGRAM OUTCOMES

- Apply AC and DC theory to an industrial setting.
- Apply the National Electric Code requirements to industrial equipment and facilities.
- Apply operational and troubleshooting principles to a transformer installation.
- Maintain electric motors and motor controls.
- Test solid-state electronic system components.
- · Apply operational and troubleshooting principles to power systems and variable speed drives.
- · Apply operational and troubleshooting principles to programmable logic controllers and automation equipment.
- · Apply operational and troubleshooting principles to fluid power systems.
- · Interpret industrial equipment drawings and electrical prints.
- · Communicate trade and occupational-related information effectively.

APPROXIMATE COSTS

Contact the LTC Apprenticeship Office or visit www.gotoltc.edu/apprenticeship for detailed information.

SPECIAL NOTE

You must have a sponsoring employer and contract before attending school.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

REAL EXPERIENCE FOR THE REAL WORLD

Term 1 50413750 DC Electricity for IE Part 1 1 50413773 Safety and Print Reading for IE 0.5 50413762 Industrial Electrician Motor Controls 1 50413752 Codes for IE: Intro to the NEC 0.5 3 Term 2 50413774 DC Electricity for IE Part 2 1 Industrial Electrician Motor Controls 2 50413763 1 50413756 Codes for IE: Article 300 Cords/Cables 0.5

Term 3

| 50413751 | AC Electricity for IE Part 1 | 1 |
|----------|-----------------------------------------|-----|
| 50413764 | Industrial Electrician Motor Controls 3 | 1 |
| 50413757 | Codes for IE: Conductors, Raceways, | 0.5 |
| | Data Cables | |
| | | 2.5 |

Term 4

| 50413775 | AC Electricity for IE Part 2 | 1 |
|----------|------------------------------------------|-----|
| 50413769 | IE Programmable Logic Controllers 1 | 1 |
| | Codes for IE: OCPD and Electrical Device | 0.5 |
| | | 2.5 |

Term 5

| 50413760 | Industrial Electrician Transformers | 1 |
|----------|-------------------------------------|-----|
| 50413770 | IE Programmable Logic Controllers 2 | 1 |
| 50413759 | Codes for IE: Transformers | 0.5 |
| | | 2.5 |

Term 6

| 50413761 | IE Motors and Generators | 1 |
|----------|-------------------------------------|-----|
| 50413771 | IE Programmable Logic Controllers 3 | 1 |
| 50413758 | Codes for IE Motors and Generators | 0.5 |
| | | 2.5 |

Term 7

| 50413768 | IE Solid State Electronics | 2 |
|----------|-----------------------------------------|-----|
| 50413767 | Fluid Power Systems for IE - Hydraulics | 0.5 |
| 50413766 | Fluid Power Systems for IE - Pneumatics | 0.5 |
| | | 2 |

Term 8

| 50413765 | Power Systems & Variable Speed Drives for IE | 2 |
|----------|----------------------------------------------|-----|
| 50413776 | Codes for IE: Article 250 | 0.5 |
| 50413772 | Alternative Energy Systems for IE | 0.5 |
| | | 3 |

TOTAL 21.5

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with the Apprenticeship Office for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

AC ELECTRICITY FOR IE PART 1...introduces the industrial electrical apprentice to the basic concepts of alternating current. Emphasis is placed on circuit analysis and the problem solving skills necessary for the maintenance of the modern industrial electric systems. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

AC ELECTRICITY FOR IE PART 2...introduces the industrial electrical apprentice to the basic concepts of alternating current. Emphasis is placed on circuit analysis and the problem solving skills necessary for the maintenance of the modern industrial electric systems. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

ALTERNATIVE ENERGY SYSTEMS FOR IE.....examines new and emerging technologies influenced by alternative energy trends which are impacting work processes today and in the future. The course introduces apprentices to alternative energy systems related knowledge and skills. Topics covered in this course include energy efficiency; energy conservation; changes in state, national and local codes; lighting alternatives; alternative energy generation; energy efficient motors, drives, controllers, and equipment. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

CODE FOR IE: ARTICLE 250.....examines the application of grounding to industrial electrical situations as required by the NEC and other electrical codes. Apprentices will complete their review of this portion of the NEC and examine additional related electrical codes in effect across Wisconsin. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

CODES FOR IE: ARTICLE 300 CORDS/CABLES...examines course five of eight, article 300 of the NEC and wiring methods for industrial electrical applications. In addition, apprentices will determine sizing requirements for cords and cables for installations common to industrial facilities. Finally, the course will identify code requirements for equipment installations in hazardous locations. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maint Technician Apprentice requirements met

CODES FOR IE: CONDUCTORS, RACEWAYS, DATA CABLES...examines course six of eight covering selection of proper conductors and raceways for industrial electrical installations as required by the NEC and other electrical codes. In addition, course competencies will include examining the installation requirements for data and communication cables. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

CODES FOR IE: INTRO TO THE NEC...introduces apprentice to the layout and purpose of the National Electric Code (NEC). It also strives to teach the apprentice proper methodology to research a code question and correctly interpret what they are reading. Apprentices will research the structure of the NEC and define the requirements of the code that are common to all electrical installations. Apprentices will examine the installation requirements for fire pumps, emergency systems and fire alarms. CONDITION: 504131 Ind Electrician Apprentice or 504641 Maint Tech Apprentice requirements met

CODES FOR IE: MOTORS AND GENERATORS...examines course seven of eight which reviews the code requirements for the selection of electrical components for typical industrial electrical motor installations. Course module includes sizing of controls, conductors, switches, branches, and more. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

CODES FOR IE: OCPD AND ELECTRICAL DEVICE...introduces the industrial electrical apprentice how to plan for the installation of overcurrent protection devices and how to select the proper boxes, cabinets and conduits for industrial electrical codes. This is the second of 8 course modules on the NEC. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

CODES FOR IE: TRANSFORMERS...examines course eight of eight which reviews the electrical code requirements which provide for the protection of various industrial transformer installations. Course competencies include developing plans, sizing equipment and components, safety, and references to applicable sections of the NEC. CONDITION: 504131 Ind Electrician Appr or 504641 Maint Tech Apprentice reqs met

DC ELECTRICITY FOR IE PART 1...introduces the fundamental concepts of and computations related to DC electricity. Emphasis is placed on circuit analysis and the problem solving skills necessary for the maintenance of modern industrial electric systems. Competencies related to metering and safe use of measuring devices are included. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

DC ELECTRICITY FOR IE PART 2...introduces the fundamental concepts of and computations related to DC electricity. Emphasis is placed on circuit analysis and the problem solving skills necessary for the maintenance of modern industrial electric systems. Competencies related to metering and safe use of measuring devices are included. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met FLUID POWER SYSTEMS FOR IE - HYDRAULICS...examines hydraulics course customized for industrial electricians and relates the basics of hydraulic theory and hydraulic components. Safety and the interrelationship between hydraulic power with electrical control is emphasized. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

FLUID POWER SYSTEMS FOR IE - PNEUMATICS...examines pneumatics customized for industrial electrician apprentices who deal with fluid power systems. This course will relate the basics of pneumatic theory and pneumatic components. Safety and the interrelationship between hydraulic power with electrical control is emphasized. CONDITION: 504131 Ind Electrician Appr or 504641 Maint Tech Apprentice reqs met

IE MOTORS AND GENERATORS...introduces the industrial electrician apprentices to explore motor controls. This course introduces concepts, terminology, and safety. In addition, this is designed to give the Industrial Electrician Apprentice the knowledge required by industry to maintain electric motors and generators. This course material will cover DC motors and generators, single-phase and three-phase motors, as well as alternators. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

IE PROGRAMMABLE LOGIC CONTROLLERS 1...designed to teach the fundamentals of programmable logic controller and its programming software. The first course of 3 will introduce terminology, concepts, print reading and safety. CONDITION: 504131 Ind Electrician Apprentice or 504641 Maint Tech Apprentice requirements met

IE PROGRAMMABLE LOGIC CONTROLLERS 2...examines second of three courses for industrial electrician apprentices. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

IE PROGRAMMABLE LOGIC CONTROLLERS 3...examines third course of three for industrial electrician apprentices. PLC applications and assessment projects are planned. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Tech Apprentice requirements met

IE SOLID STATE ELECTRONICS...provides apprentice with the skills and knowledge for troubleshooting basic solid-state devices and circuits. The construction, identification, and operating characteristics of solid-state devices are investigated. The apprentice builds test circuits, gathers and analyzes data, and follows safety procedures. Methods for locating defective component are applied. Replacement of printed circuit board components is performed. Also examined is the effect of temperature on devices. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Tech Apprentice requirements met

INDUSTRIAL ELECTRICIAN MOTOR CONTROLS 1...introduces learner through the fundamentals of electric motor control. Will learn to recognize and draw the basic symbols, the language of motor controls, and how to apply these symbols into current industrial format. Will also learn to draw ladder and wiring diagrams. Introduced to the logic used in motor control and be required to apply this logic in order to correctly interpret, design and wire control circuits. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

INDUSTRIAL ELECTRICIAN MOTOR CONTROLS 2...examines second course of three and examines motor controls applicable to the industrial electrician trade. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

INDUSTRIAL ELECTRICIAN MOTOR CONTROLS 3...examines third of three courses examining motor controls applicable to the industrial electrician trade. Applications and assessment activities are intended in this course. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

INDUSTRIAL ELECTRICIAN TRANSFORMERS...introduces Industrial Electrician Apprentice to the basic concepts of single and three-phase transformers. The course will cover transformer theory, turns, current and voltage ratios as well as proper connections and use of various transformers. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

POWER SYSTEMS AND VARIABLE SPEED DRIVES FOR IE...provides opportunity for students to learn about power systems and variable speed drives (VSD's). Topics include electricity, electronics, power transmissions, motor operations, AC and DC motor drives, servo and stepper drives, peripherals and communication. Will also explore closed loop control, feedback devices, and drive maintenance and the troubleshooting of VSD's. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

SAFETY AND PRINT READING FOR IE...acquaints the apprentice with the interpretation of "prints" (blueprints) and other engineering and manufacturing documentation. The primary focus of the course will be on the basics of prints and how they are used to convey information to technicians. Application of electrical prints from industrial settings will be studied. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met



INDUSTRIAL MANUFACTURING TECHNICIAN • APPRENTICE

Program Number 50-420-9

18 Month Contract

Work Hours (including related instruction): 3000 Related Instruction Hours: 256 • Night School Hours: 8

Apprenticeships are employer-sponsored training programs. You must have a contract before being invited to school. A special application process is used for these programs. Please contact the Apprenticeship Office for the proper forms. Apprenticeship means you earn while you learn. If you want a career in a skilled trade, apprenticeship is the best way to get there. You'll combine on-the-job training with on campus learning—you'll have the best of both worlds when it comes to learning the skills you need to get ahead. And even better, you'll earn a paycheck while you learn those skills.

ABOUT THE CAREER

Entry-level industrial manufacturing technicians operate industrial production-related equipment, work with manufacturing-related tools, and perform work processes related to a wide variety of manufacturing settings. Industrial manufacturing technician apprentices will learn to set up, operate, monitor, and control production equipment. They will also help improve manufacturing processes and schedules to meet customer requirements. This apprenticeship training program combines on-the-job learning with related instruction in a classroom to prepare apprentices for journey-level work after they complete the program.

CAREERS

Graduates of LTC's Industrial Manufacturing Technician Apprenticeship program work as journey-level industrial manufacturing technicians in commercial, industrial, and public settings.

INDUSTRIAL APPRENTICE APPLICATION REQUIREMENTS

- Determined by employer
- Wisconsin Apprentice Contract

PROGRAM OUTCOMES

- · Protect self and other workers from accidents and injuries.
- Interpret technical information.
- Measure work.
- Inspect work.
- · Use mechanical tools and testing equipment.
- Set up production equipment.
- Operate production equipment.
- · Produce quality work.
- · Be aware of inventory and material processes.
- · Be aware of trends and the current state of the business.
- · Apply soft skills to production and manufacturing work processes.
- Demonstrate continuous improvement.

APPROXIMATE COSTS

Contact the LTC Apprenticeship Office or visit www.gotoltc.edu/apprenticeship for detailed information.

SPECIAL NOTE

You must have a sponsoring employer and contract before attending school.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

Catalog No. Class Title Credit(s) Term 1 50420510 Industrial Manufacturing Technician 3 Apprentice 1 50420711 Mathematics for Machine Trades 1 4 Term 2 50420512 Industrial Manufacturing Technician 3 Apprentice 2 50420712 Communications for Apprentices 1 4

TOTAL 8

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with the Apprenticeship Office for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year. **COMMUNICATIONS FOR APPRENTICES**...introduces the apprentice to basic communication concepts relating to the workplace. It is designed specifically for the apprentice to acquire the necessary skills of giving instructions, writing a technical memo, and explaining a technical process. Throughout the course the apprentice will brainstorm, write, edit, revise, and use one-on-one communication delivery in a small group. The course combines lecture and hands-on activities. CONDITION: Industrial Manufacturing Technician Apprentice program requirements met

INDUSTRIAL MANUFACTURING TECH APPRENTICE 1... includes an orientation to the trade and manufacturing, followed by the MSSC safety module, MSSC quality module, OSHA 10 certification, blueprint reading, visual inspection, measurement, and first aid & CPR training. Manufacturing concepts will be introduced and applied in a variety of manufacturing settings. MSSC modules 1 and 2 are aligned with the learning plans for this course along with Machine Trades Math. CONDITION: Industrial Manufacturing Technician Apprentice program requirements met

INDUSTRIAL MANUFACTURING TECH APPRENTICE 2...includes the MSSC manufacturing processes and production and maintenance awareness modules, along with communication, lean manufacturing, problem solving, and frontline leadership. Manufacturing-related concepts will be applied to a variety of industrial settings. The course wraps up with an examination of emerging trends and technologies and future directions for manufacturing. MSSC learning objectives in modules 3 and 4 are aligned with curriculum. CONDITION: Industrial Manufacturing Technician Apprentice program requirements met

MATHEMATICS FOR MACHINE TRADES...provides applied mathematics instruction from a review of basic arithmetic; basic algebra; applications based on geometry; right triangle trigonometry and oblique angle trigonometry; and compound angles. CONDITION: 504209 Industrial Manufacturing Technician Apprentice program requirements met

INTRO TO ELECTRO-MECHANICAL TECHNOLOGY

Program Number 61-620-1 Certificate • 10 credits

ABOUT THE PROGRAM

Change is constant. Change is rapid. In the world of manufacturing technology change brings more complex systems of assembly, control measurement, and material processing of manufactured products. If you're good at problem solving, like working with automated manufacturing equipment, and you're looking forward to work that continuously challenges you to keep growing your knowledge and skills—get started with the always-evolving career in electro-mechanical technology.

PROGRAM OUTCOMES

- · Perform work safely.
- · Troubleshoot basic electrical and mechanical systems and devices.
- · Repair basic electrical and mechanical systems.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- · Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
 *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is not eligible for financial aid. Talk with your Admissions Advisor about your payment options.

RELATED PROGRAMS

- Certificate embedded in the Electro-Mechanical Automation Technology Associate degree
- Maintenance Mechanic
- Electro-Mechanical Maintenance Technician
- Manufacturing Engineering Technology
- Industrial Electrician Apprenticeship
- Maintenance Technician Apprenticeship

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No. | Class Title Ci | redit(s) |
|-------------|--------------------------------------|----------|
| | COURSES | |
| 10620122 | Industrial Wiring | 2 |
| 10620155 | Hydraulics and Pneumatics | 3 |
| 10620169 | Robotic Mechanical Maintenance | 1 |
| 10804113 | College Technical Math 1A OR 1080419 | 8 3 |
| | Calculus 1* (4cr) | |
| 10462107 | Tools and Measurement | 1 |

TOTAL 10

*Calculus 1 is designed for students planning to transition to a 4-year college following LTC program completion.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

COLLEGE TECHNICAL MATHEMATICS 1A...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. PREREQUISITES: 10834110 Elementary Algebra w Apps or 10804107 College Mathematics or 31457318 Ind Mtnc Trades Math or 31420320 Machine Tool Math or math placement assessment equivalent

HYDRAULICS AND PNEUMATICS...prepares the learner to identify hydraulic and pneumatic component symbols and terms, adjust a pressure relief valve, analyze the operation of a pilot operated relief valve; analyze Pascal's law; evaluate flow, velocity, work and power in industrial hydraulic and pneumatic circuits; analyze meter-in, meterout, and bypass flow control circuits; identify basic hydraulic and pneumatic control valves; and assemble hydraulic circuits. PREREQUISITES: 10804113 College Tech Math 1A

INDUSTRIAL WIRING...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits.

ROBOTIC MECHANICAL MAINTENANCE...introduces the students to the robot teach pendant and robot jogging. Students will be taught to replace servo motors, recalibrate the robot and back up robot software and programs.

TOOLS AND MEASUREMENT...prepares the learner to use hand tools, precision measuring instruments, and torque tools.



INTRO TO INDUSTRIAL WELDING

Program Number 61-442-2 Certificate • 10 credits

ABOUT THE PROGRAM

Introduces the student to the basics of stick and wire welding, weld print reading as well as the proper terminology, tool and safe work practices as it relates to welding in an industrial setting.

PROGRAM OUTCOMES

- Apply safety practices
- · Interpret blueprints and AWS Welding symbols
- · Apply basic math to the field of welding
- · Perform SMAW and GMAW welding processes in various positions

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- · Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

This certificate is available in the evenings. All classes meet the American Welding Society requirements.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

Credits transfer to LTC's Welding-Industrial and Fabrication Technician programs.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu Catalog No. Class Title

COURSES

| 10442100 | Safety and Welding Fundamentals | 1 |
|----------|----------------------------------------|---|
| 31442310 | SMAW-Flat Position (Stick) | 1 |
| 31442350 | Metal Manufacturing Processes | 1 |
| 31442351 | Precision Measurement and Layout | 1 |
| 31442320 | GMAW-Flat Position (Wire/Mig) | 1 |
| 31442322 | GMAW-Horizontal Position (Wire/Mig) | 1 |
| 31442324 | Flux Core Arc-Flat/Horizontal Position | 1 |
| 31442385 | Weld Print 1 Print Fundamentals | 1 |
| 31442308 | Weld Examination | 1 |
| 31442382 | Welding Math Basics | 1 |

TOTAL 10

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year. FLUX CORE ARC-FLAT/HORIZONTAL (WIRE/MIG)...will have learners demonstrate safe shop working practices while welding fillet welds in flat and horizontal positions using the FCAW welding process. Learners will perform single bevel groove welds and V-groove welds in flat and horizontal positions using the FCAW, and will perform groove welds with and without backing material. COREQUISITE: 31442322 GMAW-Horizontal Position (Wire/Mig)

GMAW-FLAT POSITION (WIRE/MIG)...prepares the learner to demonstrate safe shop work practices; learners will perform set up and shut down of GMAW and MCAW equipment; weld mild steel using the GMAW and MCAW welding processes, and weld in the flat position using the GMAW process. PREREQUISITE: 31442300 Welding Intro or COREQUISITES: 10442100 Safety and Welding Fundamentals or 31442346 Industrial Maint Welding Intro or 31442345 Auto Servicing Welding

GMAW-HORIZONTAL POSITION (WIRE/MIG)...will use safe shop work practices while producing 3/4" fillet welds using the GMAW and MCAW welding processes and 1/4" fillet welds while welding tube to plate in the horizontal position. Learners will produce groove weldments in flat and horizontal positions, using .035 hard wire, .052 Metal Core and Metal electrode wires. COREQUISITE: 31442320 GMAW-Flat Position (Wire/Mig)

METAL MANUFACTURING PROCESSES...prepares the learner to communicate using proper terminology that is used in industry as it pertains to the use of hand/ power tools and measurement. The learner will demonstrate good safety practices while in a workplace environment, demonstrate the proper use of hand and power tools. The learner will complete steel fabrications using hand/power tools and classify and install industrial fasteners. The learner will be introduced to material handling operations by using the overhead crane and forklift. COREQUISITES: 31442351 Precision Measurement and Layout and 10442100 Safety and Welding Fundamentals or 31442346 Industrial Maint Welding Intro or 31442345 Auto Servicing Welding or PREREQUISITE: 31442300 Welding Intro

PRECISION MEASUREMENT AND LAYOUT...prepares the learner to communicate proper measurement terminology that is used in industry; will develop safety practices for the workplace while using measuring equipment; proper use of measuring equipment and obtain measurement readings from Measuring equipment; layout steel fabrication using hand measuring devices and layout equipment. The learner will inspect and analyze a variety of steel fabrications while using measuring equipment.

SAFETY AND WELDING FUNDAMENTALS...introduces the learner to the world of welding, weld shop safety practices, welding terminology, and welding machine setup to industry standards. Learners will be introduced to the three major welding processes: SMAW, GMAW, and GTAW and will build skills welding with each process in the flat and horizontal positions while using the common welding joints found in industry. The learner will process material using the two major hand-held cutting processes - Oxyfuel and PAC.

SMAW-FLAT POSITION (STICK)...prepares the learner to demonstrate safe shop work practices; make bead on plate welds on mild steel; make padding plate welds on mild steel; make fillet welds in 3/8" mild steel plate in the flat and horizontal positions; and make groove welds in mild steel plate. PREREQUISITE: 31442300 Welding Intro or COREQUISITES:10442100 Safety and Welding Fundamentals or 31442346 Industrial Maint Welding Intro or 31442345 Auto Servicing Welding

WELD EXAMINATION...is a study of the basic principles of weld quality. Emphasis will be on identifying and testing ferrous and non-ferrous materials. Learners will be introduced to hardening of ferrous material using the Oxyfuel process. The learner will be introduced to the inspection process of welds through NDT (non-destructive testing) and DT (destructive testing).

WELD PRINT 1 PRINT FUNDAMENTALS...prepares the learner to interpret manufacturing drawing by applying orthographic projection principles, by recognizing types of lines used in print reading. How manufacturing prints are dimensioned. Develop print reading strategies by locating the bill of materials, title blocks, and revision blocks. Learners will be introduced to the AWS welding symbols and how they relate to manufacturing drawing.

WELDING MATH BASICS...provides the learner with the necessary skills to solve problems involving whole numbers, fractions, and decimal numbers using pad and pencil and calculator. The course is designed for individualized student needs. This is credit one of the two math credits need for the Welding program.



INTRO TO MAINTENANCE MECHANIC

Program Number 61-462-2 Certificate • 10 credits

ABOUT THE PROGRAM

Prepares the learner for entry-level maintenance and production employment. The student will have hands-on learning of basic maintenance and electrical tasks as well as instruction in print and math that pertain to the manufacturing environment. The student will also get a basic understanding of tools and measurement that is used in manufacturing.

PROGRAM OUTCOMES

- Demonstrate safe work procedures.
- · Maintain basic industrial equipment.
- · Communicate technical information.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- · Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
 *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

Students may need to supply their own safety glasses and welding gloves.

RELATED PROGRAMS

- Certificate embedded in the Maintenance Mechanic and Electro-Mechanical Maintenance Technician Technical Diplomas
- Electro-Mechanical Automation Technology
- Maintenance Mechanic/Millwright Journeyworker

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| C | Catalog No | . Class Title Cred | it(s) |
|---|------------|---------------------------------------|-------|
| | | Term 1 | |
| 1 | 0804113 | College Technical Math 1A OR 10804198 | 3 |
| | | Calculus 1* (4 cr) | |
| 1 | 0462107 | Tools and Measurement | 1 |
| 1 | 0442100 | Safety and Welding Fundamentals | 1 |
| 1 | 0462109 | Maintenance Introduction | 1 |
| 1 | 0462111 | Maintenance Print Reading | 2 |
| 1 | 0620122 | Industrial Wiring | 2 |

TOTAL 10

*Calculus 1 is designed for students planning to transition to a 4-year college following LTC program completion.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

COLLEGE TECHNICAL MATHEMATICS 1A...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. PRERQUISITES: 10834110 Elementary Algebra w Apps or 10804107 College Mathematics or 31457318 Ind Mtnc Trades Math or 31420320 Machine Tool Math or math placement assessment equivalent

INDUSTRIAL WIRING...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits.

MAINTENANCE INTRODUCTION...prepares the learner to apply basic safety, mechanics, force, friction, work, and energy; learn terminology related to maintenance; introduction to threaded and non-threaded fasteners and concrete anchoring; learn to use precision measuring tools; introduction to single-phase and three-phase motor wiring. PREREQUISITE: 31462325 Maintenance Tools and Measurement or COREQUISITE: 10462107 Tools and Measurement

MAINTENANCE PRINT READING...prepares the learner to read prints; make isometric sketches; interpret orthographic projection drawings, to include sections, surface finishes, and tolerancing. The course when delivered in the evening is self-paced, open-entry/exit, and designed for individualized student needs. Tools and Measurement...prepares the learner to use hand tools, precision measuring instruments, and torque tools.

SAFETY AND WELDING FUNDAMENTALS...introduces the learner to the world of welding, weld shop safety practices, welding terminology, and welding machine setup to industry standards. Learners will be introduced to the three major welding processes: SMAW, GMAW, and GTAW and will build skills welding with each process in the flat, and horizontal positions while using the common welding joints found in industry. The learner will process material using the two major hand held cutting processes - the Oxyfuel and PAC cutting processes.



INTRO TO PRECISION MACHINING

Program Number 61-420-1 Certificate • 8 credits

ABOUT THE PROGRAM

Learn CNC (computer numerical control) and Machining at your own pace, through hands-on learning, and with your instructor and success coach to guide you. Just about every product that you use in your daily activities is the result of a machine tool manufacturing process. If you like hands-on work, are detail-oriented, have good math skills, and are able to develop and follow through on work instructions, a career in machine tool operation offers you lifelong opportunities.

PROGRAM OUTCOMES

- Apply basic safety practices in the machine shop.
- · Interpret basic industrial/engineering drawings.
- · Apply basic precision measuring methods to part inspection.
- Perform basic machine tool equipment set-up and operation

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- · Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned Program Counselor/Success Coach to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is not eligible for financial aid. Talk with your Admissions Advisor about payment options.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

This program offers flexible start dates throughout the year. Students can attend classes anytime Monday through Thursday from 8am-8pm.

RELATED PROGRAMS

- Certificate is embedded in the Precision Machining Technology and CNC Automation Technician Technical Diplomas
- Machinist Apprenticeship
- Tool & Die Apprenticeship
- Millwright Apprenticeship

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu Catalog No. Class Title

COURSES

| 31420310 | Shop Tools and Fasteners | 1 |
|----------|-------------------------------|---|
| 31420330 | Precision Measuring | 1 |
| 31420385 | Orthographic Projection Print | 1 |
| 31420325 | Machining Math Basic | 1 |
| 31420338 | Drills and Saws | 1 |
| 31420340 | Manual Lathe Operation | 1 |
| 31420350 | Manual Mill Operation | 1 |
| 31444301 | Mill-G&M Code | 1 |
| | | |

TOTAL 8

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

DRILLS AND SAWS...learner will demonstrate use of sawing and drilling machines safely. COREQUISITE: 31420310 Shop Tools and Fasteners or PREREQUISITES: 31420394 Industrial Maintenance Machine Tool Intro or 10420194 Machine Tool Intro or CONDITION: 324571 Welding FabTech enrollment requirements met

MACHINING MATH BASIC...prepares the learner to apply basic technical math skills to solve problems.

MANUAL LATHE OPERATION...prepares the learner to perform lathe facing, turning, hole producing and threading operations safely. COREQUISITE: 31420310 Shop Tools and Fasteners or 31420394 Ind Mtnc Machine Tool Introduction or 10420194 Machine Tool Introduction or CONDITION: 324571 Welding Fabrication Technician, 104622 Electro-Mech Maintenance Technician, or 314622 Maintenance Mechanic program requirements met

MANUAL MILL OPERATION...prepares the learner to perform squaring, slot milling and hole producing using a vertical mill machine safely. COREQUISITE: 31420310 Shop Tools and Fasteners or 31420394 Ind Mtnc Machine Tool Intro or 10420194 Machine Tool Intro or CONDITION: 324571 Welding Fabrication Technician, 104622 Electro-Mech Maintenance Technician, or 314622 Maintenance Mechanic program requirements met

MILL-G&M CODE...prepares the learner to create milling G&M code programs.

ORTHOGRAPHIC PROJECTION PRINT...prepares the learner to interpret manufacturing orthographic projection prints.

PRECISION MEASURING...prepares the learner to demonstrate use of precision measuring instruments.

SHOP TOOLS AND FASTENERS...prepares the learner to demonstrate use of shop tools and fasteners. COREQUISITE: 31420330 Precision Measuring

INFORMATION TECHNOLOGY (IT) • **CYBERSECURITY SPECIALIST**

Program Number 10-151-2 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Cybersecurity Specialists implement, maintain, and audit the security of an organization's computer networks and systems. Learn to protect data confidentiality, integrity and availability using current real-world technology, processes, and procedures. Emphasis is placed on vigilant security awareness, threat detection and implementing appropriate incident responses.

PROGRAM OUTCOMES

- · Identify security strategies.
- · Implement secure infrastructures.
- · Conduct security testing.
- · Analyze security data.
- Mitigate risk.
- · Develop security documentation.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

| Catalog No | . Class Title | Credit(s) |
|------------|---------------------------------|-----------|
| | Term 1 | |
| 10154124 | Information Security Principles | 3 |
| 10150114 | Networking I | 3 |
| 10154122 | PC Support | 3 |
| 10801195 | Written Communication | 3 |
| 10804133 | Math & Logic | 3 |
| | | 15 |

Term 2

| 10150173 | Server Administration 1 | 3 |
|----------|----------------------------------------|----|
| 10150176 | Networking 2 | 3 |
| 10150131 | Linux | 3 |
| 10801198 | Speech OR 10801196 Oral/Interpersonal | 3 |
| | Communication | |
| 10809196 | Introduction to Sociology OR 10809122 | 3 |
| | Introduction to American Government OR | |
| | 10809166 Introduction to Ethics | |
| | | 15 |

Term 3

10

10

10

10

10

| 809198 | Introduction to Psychology | 3 |
|--------|----------------------------|----|
| 150130 | Virtualization | 3 |
| 150163 | Networking 3 | 3 |
| 151104 | Intrusion Detection | 3 |
| 151137 | Incident Response | 3 |
| | | 15 |
| | | |

Term 4

| 10151164 | Penetration Testing | 3 |
|----------|--------------------------------------|----|
| 10151133 | Network Forensics and Threat Hunting | 3 |
| 10150165 | Networking 4 | 3 |
| 10150179 | Network Security | 3 |
| 10151102 | Cybersecurity Capstone | 3 |
| | | 15 |

TOTAL 60

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

CYBERSECURITY CAPSTONE...enhances the student's ability operate in the cybersecurity field. Participants will collect and correlate digital forensics information, and showcase their cybersecurity knowledge in this independent, self-paced, projectbased capstone course. PREREQUISITE: 10150163 Networking 3

INCIDENT RESPONSE...introduces the student to the tools and techniques commonly used for detecting threats to an enterprise infrastructure. Learners will implement strategies for documenting and reporting detected events based on industry standard compliance frameworks. PREREQUISITE: 10150176 Networking 2

INFORMATION SECURITY PRINCIPLES...introduces the learner to Information Systems Security. Students will review and analyze the control and security concerns in the information systems environment; the security challenges created from the emergence of new technology and the changing internal and external environments; and the effect of legal, regulatory, and current security technology on policy development. Opportunity to earn TestOut Security Pro Certification.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

INTRUSION DETECTION...introduces the learner to the most commonly used tools organizations use to detect and prevent network intrusions. Participants will get hands-on experience implementing and configuring intrusion detection and intrusion prevention systems (IDS/IPS). PREREQUISITE: 10150176 Networking 2

LINUX...is a hands-on course designed to provide the learner with the skills to install the Linux operating system, use its command-line and graphical user interfaces, manage system resources, and create scripts. The course will also introduce the learner to Linux system administration including the installation and administration of users, files, software, networking, and Internet and Intranet services.

MATH & LOGIC...will apply mathematical problem solving techniques. Topics will include symbolic logic, sets, algebra, Boolean algebra, and number bases. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

NETWORK FORENSICS AND THREAT HUNTING...provides the learner with a first look at some of the tools, techniques, and procedures used for networkbased forensics and threat hunting. Participants will collect and correlate current and historic network data to create a profile of an attack for post-incident investigations and reporting or proactive threat hunting. PREREQUISITE: 10150163 Networking 3

NETWORK SECURITY...introduces the student to the various methodologies for defending a network. Learners will develop an in-depth theoretical understanding of network security principles as well as the tools and configurations available. The learner will emphasize on the practical application of skills needed to design, implement, and support a secure Cisco network. PREREQUISITE: 10150163 Networking 3

NETWORKING 1...is a lecture/hands-on course designed to introduce students to network fundamentals. Topics covered include: OSI Reference Model; LAN and WAN topologies; cabling systems; access methods; protocols; Internet working devices (e.g. hubs, bridges, routers, switches, etc.); and basic network design.

NETWORKING 2...provides the students with networking terminology, protocols, network standards, LAN's, WAN's, TCP/IP addressing, and routing. PREREQUISITE: 10150114 Networking 1

NETWORKING 3...introduces the student to switching technology, hardware and software firewalls, and virtual private networks (VPN). PREREQUISITE: 10150176 Networking 2

NETWORKING 4...is a hands-on course designed to introduce IT students to enterprise-level IT technologies. The student will learn how to configure and manage Cisco wireless controllers, explore cloud computing technologies such as Google Apps and Microsoft Azure, learn about data center storage and backup solutions, advanced security technologies, and data center power and cooling. PREREQUISITE: 10150176 Networking 2

PC SUPPORT...prepares you to be able to install, manage, repair, and troubleshoot PC hardware and Windows, Linux, and Mac operating systems. You will learn how to set up a new computer, identify system requirements, install or upgrade operating systems, manage external devices, troubleshoot common computer problems, and connect to a small home network. Opportunity to earn TestOut PC Pro Certification.

PENETRATION TESTING...provides the learner with an overview of the tools and techniques commonly used for penetration testing. Through hands-on exercises, students will learn the proper selection and application of a given tool for the intended task. Also included arestrategies for documenting and reporting on the outcome of the test. Students will demonstrate the ability to plan and execute a basic network security audit in a simulated business environment. PREREQUISITE: 10150163 Networking 3

SERVER ADMINISTRATION 1...is a hands-on course designed to introduce the learner to the installation and configuration of Windows Server servers. The student will learn how to install and configure servers, configure server roles and features, configure Hyper-V, deploy and configure core network services, install and administer Active Directory (AD), and create and manage Group Policy. PREREQUISITE: 10154124 Information Security Principles

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

VIRTUALIZATION...is a hands-on course designed to introduce the learner to the skills needed to install, configure, and manage a highly available and scalable virtual infrastructure. Objectives include: create, configure, migrate, manage, and monitor virtual machines and virtual appliances; manage user access to the virtual infrastructure; and configure and manage virtual network and storage systems. PREREQUISITE: 10154124 Information Security Principles

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

INFORMATION TECHNOLOGY (IT) • NETWORK SPECIALIST

Program Number 10-150-2 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Computers networked together sharing data and resources are powerfully amazing! Today, businesses of all sizes are networking their computers to maximize efficiency and productivity. If creating an overall computer network strategy, having the ability to analyze ideas/processes, installing hardware/software, and troubleshooting problems are skills you would like to put to use in a career, becoming a network specialist is your ticket to success.

PROGRAM OUTCOMES

- Implement computer networks.
- · Implement client systems.
- · Implement server operating systems.
- · Implement network security components.
- Develop technical documentation.
- Troubleshoot network systems.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Students are required to have one USB 80 gig hard drive or greater.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No. Class Litle | | Credit(s) |
|-------------------------|---------------------------------|-----------|
| | Term 1 | |
| 10154124 | Information Security Principles | 3 |
| 10150114 | Networking I | 3 |
| 10154122 | PC Support | 3 |
| 10801195 | Written Communication | 3 |
| 10804133 | Math & Logic | 3 |

Term 2

| 10150131 | Linux | 3 |
|----------|----------------------------------------|----|
| 10150173 | Server Administration 1 | 3 |
| 10150176 | Networking 2 | 3 |
| 10801196 | Oral/Interpersonal Communication OR | 3 |
| | 10801198 Speech | |
| 10809196 | Introduction to Sociology OR 10809122 | 3 |
| | Introduction to American Government OR | |
| | 10809166 Introduction to Ethics | |
| | | 15 |

Term 3

| 10150168 | Network Design & Documentation | 3 |
|----------|--------------------------------|----|
| 10150163 | Networking 3 | 3 |
| 10150174 | Server Administration 2 | 3 |
| 10150130 | Virtualization | 3 |
| 10809198 | Introduction to Psychology | 3 |
| | | 15 |

Term 4

| 10150165 | Networking 4 | 3 |
|----------|-------------------------|----|
| 10150164 | Mobile Devices | 3 |
| 10150175 | Server Administration 3 | 3 |
| 10150179 | Network Security | 3 |
| 10150181 | IT Networking Capstone | 3 |
| | | 15 |

TOTAL 60

1.4.4.

15

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

2023-24

INFORMATION SECURITY PRINCIPLES...introduces the learner to Information Systems Security. Students will review and analyze the control and security concerns in the information systems environment; the security challenges created from the emergence of new technology and the changing internal and external environments; and the effect of legal, regulatory, and current security technology on policy development. Opportunity to earn TestOut Security Pro Certification.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

IT NETWORKING CAPSTONE...will integrate many of the technologies and concepts that the students have learned throughout the Network Specialist program. The integration projects will include such areas as network client and server administration, general networking concepts, IP addressing, network security, and switch and router configuration. COREQUISITES: 10150165 Networking 4 and 10150175 Server Administration 3 and PREREQUISITE: 10150130 Virtualization

LINUX...is a hands-on course designed to provide the learner with the skills to install the Linux operating system, use its command-line and graphical user interfaces, manage system resources, and create scripts. The course will also introduce the learner to Linux system administration including the installation and administration of users, files, software, networking, and Internet and Intranet services.

MATH & LOGIC...will apply mathematical problem solving techniques. Topics will include symbolic logic, sets, algebra, Boolean algebra, and number bases. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

MOBILE DEVICES...are quickly becoming indispensable tools in the production environment. This course will introduce the learner to various industry mobile technologies used to promote better decision-making, reporting, and improve manufacturing performance. Some of the devices covered are tablets, smartphones, barcode printers and readers, and radio frequency identification (RFID) readers/writers.

NETWORK DESIGN/DOCUMENTATION...is a lecture/hands-on course designed to introduce students to network design and documentation fundamentals. Topics include: needs analysis, hardware needs and analysis, network layout and design, and documenting a network. PREREQUISITE: 10150176 Networking 2

NETWORK SECURITY...introduces the student to the various methodologies for defending a network. Learners will develop an in-depth theoretical understanding of network security principles as well as the tools and configurations available. The learner will emphasize on the practical application of skills needed to design, implement, and support a secure Cisco network. PREREQUISITE: 10150163 Networking 3

NETWORKING 1...is a lecture/hands-on course designed to introduce students to network fundamentals. Topics covered include: OSI Reference Model; LAN and WAN topologies; cabling systems; access methods; protocols; Internet working devices (e.g. hubs, bridges, routers, switches, etc.); and basic network design.

NETWORKING 2...provides the students with networking terminology, protocols, network standards, LAN's, WAN's, TCP/IP addressing, and routing. PREREQUISITE: 10150114 Networking 1

NETWORKING 3...introduces the student to switching technology, hardware and software firewalls, and virtual private networks (VPN). PREREQUISITE: 10150176 Networking 2

NETWORKING 4...is a hands-on course designed to introduce IT students to enterprise-level IT technologies. The student will learn how to configure and manage Cisco wireless controllers, explore cloud computing technologies such as Google Apps and Microsoft Azure, learn about data center storage and backup solutions, advanced security technologies, and data center power and cooling. PREREQUISITE: 10150176 Networking 2

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent PC SUPPORT...prepares you to be able to install, manage, repair, and troubleshoot PC hardware and Windows, Linux, and Mac operating systems. You will learn how to set up a new computer, identify system requirements, install or upgrade operating systems, manage external devices, troubleshoot common computer problems, and connect to a small home network. Opportunity to earn TestOut PC Pro Certification.

SERVER ADMINISTRATION 1...is a hands-on course designed to introduce the learner to the installation and configuration of Windows Server servers. The student will learn how to install and configure servers, configure server roles and features, configure Hyper-V, deploy and configure core network services, install and administer Active Directory (AD), and create and manage Group Policy. PREREQUISITE: 10154124 Information Security Principles

SERVER ADMINISTRATION 2..is a hands-on course designed to introduce the leaner to administration of Windows Server servers. The student will learn how to deploy, manage, and maintain servers; configure file and print services; configure network services and access; configure a network policy server infrastructure; configure and manage Active Directory; and configure and manage Group Policy. Opportunity to earn TestOut Server Pro Certification. PREREQUISITE: 10150173 Server Administration 1

SERVER ADMINISTRATION 3...will introduce you to PowerShell and help you be effective with it in a production environment. PowerShell is both a scripting language and an administrative shell that lets you control and automate nearly every aspect of Windows. PREREQUISITE: 10150176 Networking 2

VIRTUALIZATION...is a hands-on course designed to introduce the learner to the skills needed to install, configure, and manage a highly available and scalable virtual infrastructure. Objectives include: create, configure, migrate, manage, and monitor virtual machines and virtual appliances; manage user access to the virtual infrastructure; and configure and manage virtual network and storage systems. PREREQUISITE: 10154124 Information Security Principles

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

INFORMATION TECHNOLOGY (IT) • WEB DEVELOPMENT SPECIALIST

Catalog No. Class Title

1

1

Program Number 30-152-4 Technical Diploma • Two Terms

ABOUT THE PROGRAM

The program curriculum focuses on programming principles, including web application development, database administration, and website design. The program is offered in a traditional, face-to-face or 100% online delivery.

PROGRAM OUTCOMES

- · Design web sites or applications.
- Utilize essential data technologies.
- Develop basic applications.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

- Students are required to have access to a computer with internet connectivity. Computers are available at LTC's campuses for those students who do not have a computer and/or internet access at home.
- Students are required to purchase a domain name and web hosting in Term 2. The approximate cost is \$60 per term.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| | Term 1 | |
|----------|----------------------------------------|----|
| 10152100 | Programming Introduction | 4 |
| 10152124 | Intro to Database Design & Development | 2 |
| 10152196 | Web Development 1 | 3 |
| 10804133 | Math & Logic | 3 |
| | | 12 |

Term 2

| 0152199 | Web Development 2 | 4 |
|---------|-------------------------------------|----|
| 0152187 | Web Development 3 | 4 |
| 0201118 | Advancements in Web and Development | 2 |
| | | 10 |

TOTAL 22

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ADVANCEMENTS IN WEB AND DEVELOPMENT...will explore the latest trends in Web design and development. Students will apply advanced techniques to create progressive and contemporary websites. PREREQUISITE: 10152196 Web Dev 1

INTRO TO DATABASE DESIGN AND DEVELOPMENT...introduces the student to DBMS components, the design and development of databases, table relationships, SQL, database best practices and database integration with web applications.

MATH & LOGIC...will apply mathematical problem solving techniques. Topics will include symbolic logic, sets, algebra, Boolean algebra, and number bases. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

PROGRAMMING INTRODUCTION...introduces the students to the programming process. Students will start with designing programs using flowcharts and progress to using programming code to create programs that use variables, data types, decisions, loops, arrays, and functions.

WEB DEVELOPMENT 1...introduces the students to web page design principles and proceeds to teach students how to create their own visually appealing designs for the web. Students will have hands-on experience using current versions of Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) to code and format accessible, valid, and optimized websites. Websites will be published live on the web using FTP. Students also explore recent trends in web design and development.

WEB DEVELOPMENT 2...reintroduces the student to Javascript to develop dynamic client-side applications. Students will learn the latest version of Javascript and career relevant Javascript frameworks. PREREQUISITES: 10152196 Web Development 1 and 10152121 Programming 2 or 10152100 Programming Introduction

WEB DEVELOPMENT 3...introduces the learner to PHP, MySQL, PHP frameworks, content-managed Web sites, and Web server architecture. Topics covered include an introduction to the Apache Web server, server-side scripting, PHP control logic and functions, controlling state using sessions and cookies, querying database content and population to an HTML Web page, MySQL relational database administration, and processing form information and populating it to a MySQL database. PREREQUISITES: 10152121 Programming 2 or 10152100 Programming Introduction and 10152196 Web Development 1 and 10152124 Intro to Database Design and Development

INFORMATION TECHNOLOGY (IT) • WEB AND SOFTWARE DEVELOPER

Program Number 10-152-7

Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

The program curriculum focuses on programming principles, including web application development, mobile device development, database administration, and integration of web marketing and website design. The program is offered in a traditional, face-to-face or 100% online delivery.

PROGRAM OUTCOMES

- · Design web and software applications.
- · Apply data persistence technologies.
- · Develop software applications.
- Develop documentation.
- Develop web applications.
- · Use Infrastructures.
- Analyze new technologies.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

- Students are required to have access to a computer with internet connectivity. Computers are available at LTC's campuses for those students who do not have a computer and/or internet access at home.
- Students are required to purchase a domain name and web hosting in Terms 2 and 4. The approximate cost is \$60 per term.
- Students are strongly encouraged to take Written Communications during the summer before enrolling in Term 1 classes. General Education courses during summer term allow concentrated time during the fall and spring term for core program courses, and enrolling in Math & Logic in the first term.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu Catalog No. Class Title Credit(s) Term 1 10152100 Programming Introduction 4 Intro to Database Design and Development 2 10152124 10152196 Web Development 1 3 10804133 Math & Logic 3 12 Term 2 Web Development 2 10152199 4 10152187 Web Development 3 4 Advancements in Web and Development 2 10201118 10801195 Written Communication 3 13 Term 3 (Summer) 10801196 Oral/Interpersonal Communication OR 3 10801198 Speech 10809195 Economics OR 10809166 Introduction to 3 Ethics 6 Term 4 10152109 **Object-Oriented Programming 1** 4 Object-Oriented Programming 2 OR 10152112 4 10152190 Web & Software Developer Internship 10152123 Mobile Device Development 1 3 Introduction to Sociology OR 10809172 10809196 3 Introduction to Diversity Studies 14

Term 5

| 10152106 | Integrated Web Concepts | 4 |
|----------|-------------------------------------------|---|
| 10152114 | Mobile Device Development 2 | 3 |
| 10152117 | Object-Oriented Programming 3 | 4 |
| 10152119 | Portfolio Assessment-Web and Software Dev | 1 |
| 10809198 | Introduction to Psychology OR 10809188 | 3 |
| | Developmental Psychology | |
| | | |

15

TOTAL 60

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ADVANCEMENTS IN WEB AND DEVELOPMENT...will explore the latest trends in Web design and development. Students will apply advanced techniques to create progressive and contemporary websites. PREREQUISITE: 10152196 Web Dev 1

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

INTEGRATED WEB CONCEPTS...introduces students in the Web and Software Developer, Graphic and Web Design, and Marketing programs to working within interdisciplinary teams. Through the building of all aspects of an application, each team will select and utilize design thinking processes and US/UI tools, prototype potential design solutions, ask for, give, and receive directive feedback, and effectively communicate and persuasively present ideas to an interdisciplinary audience. PREREQ 10104136 Retail Marketing/Ecommerce and 101043 Mktg req met or 10152109 Object-Oriented Program 1, 10152123 Mobile Device Dev 1 and 101527 IT Web and Soft Dev req met or 10201173 Web Dev Advanced and 102012 Graphic and Web req met

INTRO TO DATABASE DESIGN AND DEVELOPMENT...introduces the student to DBMS components, the design and development of databases, table relationships, SQL, database best practices and database integration with web applications.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

MATH & LOGIC...will apply mathematical problem solving techniques. Topics will include symbolic logic, sets, algebra, Boolean algebra, and number bases. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

MOBILE DEVICE DEVELOPMENT 1...introduces students to using common development tools, using GitHub, using modern JavaScript, using JavaScript array prototype methods, using typescript, using common UI elements for a mobile app, testing code, and analyzing the pros and cons of the available methods of mobile app development. PREREQUISITES: 10152187 Web Development 3 and 10152199 Web Development 2 and 10201118 Advancements in Web and Development

MOBILE DEVICE DEVELOPMENT 2...introduces students to advanced mobile development topics including using components, creating web components, creating Angular components, creating JSX, creating React components, using application state in a React app, adding routing to a React app, implementing styling in a mobile app, and binding dynamic data to React components. PREREQUISITE: 10152123 Mobile Device Development 1

OBJECT-ORIENTED PROGRAMMING 1...introduces students to the Java programming language and object-oriented programming (OOP) concepts. Students will use the Java programming language and OOP to create desktop applications and server-side applications and services. PREREQUISITE: 10152187 Web Development 3

OBJECT-ORIENTED PROGRAMMING 2... introduces students to the Python programming language. Students will learn to develop applications using Python's language features and the library modules and packages. COREQUISITE: 10152109 Object-Oriented Programming 1

OBJECT-ORIENTED PROGRAMMING 3...introduces the learner to Microsoft's .NET platform, .NET frameworks, content-managed web sites and Web server architecture. Students will develop interactive and dynamic web applications using Microsoft ASP.NET, MVC architecture, and ADO.NET components to access data and data services through the creation of data-driven ASP.NET web pages and configuration of an ASP.NET application. Microsoft SQL Server is used. PREREQUISITE: 10152109 Object-Oriented Programming 1 **ORAL/INTERPERSONAL COMMUNICATION**...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PORTFOLIO ASSESSMENT - WEB AND SOFTWARE DEVELOPER... assesses what the student has learned through the Web and Software Developer degree. The course will focus on the continued development of their electronic career portfolio, the freelance/contract software development market, the analysis of the achievement of their core abilities and program outcomes, and job search topics such as resumes, cover letters, and interview skills. PREREQUISITES: 10152123 Mobile Device Dev 1 and 10152109 Object-Oriented Programming 1 and COREQUISITE: 10152106 Integrated Web Concepts and CONDITION: 101527 Web and Software Developer admissions requirements met

PROGRAMMING INTRODUCTION...introduces the students to the programming process. Students will start with designing programs using flowcharts and progress to using programming code to create programs that use variables, data types, decisions, loops, arrays, and functions.

WEB DEVELOPMENT 1...introduces the students to web page design principles and proceeds to teach students how to create their own visually appealing designs for the web. Students will have hands-on experience using current versions of Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) to code and format accessible, valid, and optimized websites. Websites will be published live on the web using FTP. Students also explore recent trends in web design and development.

WEB DEVELOPMENT 2...reintroduces the student to Javascript to develop dynamic client-side applications. Students will learn the latest version of Javascript and career relevant Javascript frameworks. PREREQUISITES: 10152196 Web Development 1 and 10152121 Programming 2 or 10152100 Programming Introduction

WEB DEVELOPMENT 3...introduces the learner to PHP, MySQL, PHP frameworks, content-managed Web sites, and Web server architecture. Topics covered include an introduction to the Apache Web server, server-side scripting, PHP control logic and functions, controlling state using sessions and cookies, querying database content and population to a Web page, MySQL relational database administration, and processing form information and populating it to a MySQL database. PREREQUISITES: 10152121 Programming 2 or 10152100Programming Introduction and 10152196 Web Development 1 and 10152124 Intro to Database Design and Development

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

ITS • INDIVIDUALIZED TECHNICAL STUDIES

Program Number 10-825-1 Associate Degree in Applied Science • Varies

ABOUT ITS

LTC's Individualized Technical Studies (ITS) associate degree is designed for working adults with unique backgrounds and educational needs that can't be met by the college's existing associate degree programs. ITS provides the option of creating your own degree. As an ITS student, you'll work with an occupational mentor of your choosing, an academic advisor, and college faculty to design an academically sound, student- and industry-specific program.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
 Program specific requirements as applicable (i.e. background check, health form, etc.)
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/ financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Curriculum varies depending upon the learner's individualized educational plan. Per the Wisconsin Technical College System (WTCS), 25 percent of coursework/credits must be completed from LTC and must be in the area of technical credits.

UNIQUE REQUIREMENTS

• Development of an individualized portfolio to be approved by the ITS Committee.

- Create an educational degree plan.
- Selection of occupational mentor(s).

CONTACT

Chou Yang, Registrar 920.693.1733 • chou.yang@gotoltc.edu

General Education 15 credits

Communication - 6 credits Math or Science - 3 credits Intro to Psych - 3 credits Social Science - 3 credits Diversity Recommended

ITS OccupationalTechnical 45 credits

One program specific area - 20 credits Other program areas - 25 credits

Career Clusters of Emphasis:

Agriculture, Food & Natural Resources Arts, AV Technology & Communications Business, Management & Administration Education & Training Information Technology Law, Public Safety & Security Manufacturing Marketing, Sales & Service Science, Technology, Engineering & Math

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.





LEGAL STUDIES/PARALEGAL

Program Number 10-110-1 Associate Degree in Applied Science • Four Terms

Catalog No. Class Title

ABOUT THE PROGRAM

The program of study for the Associate Degree in Legal Studies/Paralegal is ABA (American Bar Association) approved and complies with the requirements established by the Wisconsin Bar Association to become a Wisconsin Bar Certified Paralegal. Paralegals work under the supervision of lawyers in a range of tasks-researching the law; investigating; preparing for hearings, trials, and real estate closings; interviewing clients and witnesses; and preparing legal documents and other legal correspondence. Paralegals cannot give legal advice or represent clients in court. If you are detail oriented, organized, strong in communications, and enjoy researching and analyzing facts, you might find a career as a paralegal very rewarding. A degree in Legal Studies/ Paralegal provides a wide range of career opportunities beyond the law office, including insurance companies, bank and bank trust departments, real estate title insurance and sales, government offices and agencies, the court system, human resources, and corporate legal departments.

PROGRAM OUTCOMES

- Apply ethical principles in a legal environment.
- · Process legal documents.
- · Perform legal research.
- Synthesize various sources into a supportable legal conculsion.
- Demonstrate professionalism as a member of a legal team.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE FOR ONLINE LEARNERS

While many of the courses may be offered online, students are required to take at least ten semester credits or the equivalent of legal specialty courses through traditional classroom instruction. This requirement may be satisfied through synchronous interactive video systems, as they are considered equivalent to traditional classroom instruction.

LTC's Legal Studies/Paralegal program is approved by the American Bar Association.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| 10102160 10103191 10110101 10110130 | Term 1 (Fall) Business Law 1 Word - Level 1 Introduction to Paralegalism and Legal Ethics Real Estate Law - Paralegal | 3 1 3 3 |
|----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|------------------|
| 10801195 | Written Communication | 3 |
| 10809196 | Introduction to Sociology OR 10809166 Introduction to Ethics | 3 |
| | | 16 |
| | | |
| | | |
| | Term 2 (Spring) | |
| 10101155 | Accounting for Professionals OR | 3 |
| | Accounting for Professionals OR 10101111 Accounting 1 (4 cr) | - |
| 10101155 10110102 10110104 | Accounting for Professionals OR | 3 3 3 |

| 10104 | Legal Research | 3 |
|--------|-------------------------------------|----|
| 301196 | Oral/Interpersonal Communication OR | 3 |
| | 10801198 Speech | |
| 10160 | Employment Law - Paralegal | 3 |
| | | 15 |

Term 3 (Fall)

101

1

1

1

1

1

| 10110103 | Civil Litigation 2 | 3 |
|----------|----------------------------------------|----|
| 10110105 | Legal Writing | 3 |
| 10110132 | Personal Branding-Paralegal | 1 |
| 10110168 | Criminal Law - Paralegal | 3 |
| 10809122 | Introduction to American Government OR | 3 |
| | 10809195 Economics | |
| 10809198 | Introduction to Psychology | 3 |
| | | 16 |
| | | |

Term 4 (Spring)

| 0110107 | Legal Aspects of Business Organizations | 3 |
|---------|-----------------------------------------------------------------|---|
| 0110114 | Administration of Estates | 3 |
| 0110143 | Paralegal Internship OR 10110145 | 2 |
| | Paralegal Studies | |
| 0110106 | Family Law | 3 |
| 0806112 | Principles of Sustainability OR 10804107 College Mathematics | 3 |
| | | |

14

Credit(s)

TOTAL 61

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ACCOUNTING FOR PROFESSIONALS...is the study of the information that can be interpreted from financial statements. Students analyze financial statements and apply managerial accounting concepts in an accelerated format. PREREQUISITE: 10804123 Math w Business Applications or CONDITION: 101101 Paralegal program requirements met

ADMINISTRATION OF ESTATES...provides the learner with the skills to assist attorneys to administer estates, differentiate between probate and nonprobate property, contrast various forms of marital property, gather appropriate factual and financial information, select and draft appropriate forms to open an estate, prepare an inventory, draft a final accounting and documents to close an estate, draft tax documents, prepare powers of attorney and simple wills, and assist in the valid execution of estate planning documents. PREREQUISITE: 10110101 Intro to Paralegalism

BUSINESS LAW 1...provides the learner with the skills to summarize the American legal system; diagram the state/federal court systems; evaluate dispute resolution methods; sequence the civil litigation process; summarize the administrative agencies; differentiatecivil and criminal law; apply theories of negligence, intentional tort, and product liability; summarize elements of a contract; assess the validity of a contract; assess third-party rights and available remedies; and summarize Article II of the UCC.

CIVIL LITIGATION 1...provides the learner with the skills to evaluate causes of action and defenses; conduct an initial client interview; perform an initial investigation; draft a summons and complaint, answer, counterclaim, cross complaint, motions and supporting documents, select appropriate discovery devices; draft interrogatories and responses; prepare for depositions; draft a Notice of deposition and Subpoenas; analyze fact patterns; and evaluate evidentiary objections. PREREQUISITE: 10110101 Intro to Paralegalism

CIVIL LITIGATION 2...provides the learner with the skill to evaluate and summarize depositions; evaluate evidentiary challenges; prepare a witness list; draft settlement documents; locate expert witnesses; prepare witnesses; prepare for presentation of evidence at trial; prepare a trial notebook; draft a Bill of Costs; prepare post trial motions; evaluate and research appellate issues. PREREQUISITE: 10110102 Civil Litigation

CRIMINAL LAW-PARALEGAL...provides the learner with the skills to analyze state and federal criminal procedures, determine if a search and arrest is in accordance with the Fourth Amendment, analyze the Miranda rules, draft a criminal summons and complaint, determine possible defenses for a defendant, draft motions, analyze a criminal complaint and jury instructions for required elements, create demonstrative evidence, create a trial notebook, conduct a client interview, and contrast prosecution and defense roles. PREREQUISITE: 10110101 Intro to Paralegalism

EMPLOYMENT LAW-PARALEGAL...provides the learner with the skills to analyze state and federal law governing employment relationships, job discrimination, sexual harassment, workplace privacy, labor standards and human resource management. PREREQUISITE: 10110101 Intro to Paralegalism

FAMILY LAW...provides the learner with the skills to conduct an initial client interview for a family law matter, including divorce and domestic violence; draft initial pleadings for divorce, financial family law documents, divorce discovery documents, and concluding documents in divorces; assess the need for post-divorce modification and enforcement; and outline factors involving child custody and support. PREREQUISITE: 10110101 Intro to Paralegalism

INTRODUCTION TO AMERICAN GOVERNMENT...introduces American political processes and institutions. It focuses on rights and responsibilities of citizens and the process of participatory democracy. Learners examine the complexity of the separation of powers and checks and balances. It explores the role of the media, interest groups, political parties and public opinion in the political process. It also explores the role of state and national government in our federal system. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PARALEGALISM AND LEGAL ETHICS...introduces the learner to the paralegal profession, including civil, criminal, and administrative procedure; state and federal judicial systems; legal research; case briefing; ethical rules that apply to paralegals; law office software; and substantive civil law.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: 10838105 Intro Reading and Study Skills or Reading placement assessment equivalent

LEGAL ASPECTS OF BUSINESS ORGANIZATIONS...provides learners with the skills to analyze legal aspects of the formation, operation, and dissolution of sole proprietorships, partnerships, limited liability entities, and corporations; draft documents related to various business entities suchas Certificates of Limited Partnership; Articles of Organization and Incorporation, Name Reservation Applications, Organizational Resolutions, Form SS-4 and 2553, Stock Certificates, Resolutions and Minutes, and Amendments and Articles of Dissolution. PREREQUISITE: 10110101 Intro to Paralegalism

LEGAL RESEARCH...provides the learner with the skills to differentiate between primary or secondary authority, locate statutes and constitutional provisions, locate case law, locate administrative regulations, locate secondary authority, use correct citation form, verify and update legal authority, formulate legal issues, use effective research strategies, evaluate solutions to legal problems, and use computer-assisted and internet legal research strategies. Some classes will be held off campus in a law library. PREREQUISITE: 10110101 Intro to Paralegalism

LEGAL WRITING ... provides the learner with the skills to draft legal correspondence, operative legal documents, case briefs, and legal and office memoranda; analyze and synthesize legal authority; use correct citation form; draft a civil pleading, affidavit, trial brief, and appellate brief; and apply rules of civil procedure. PREREQUISITE: 10110104 Legal Research and 10801195 Written Comm or 10801195OL Written Comm Online

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PARALEGAL INTERNSHIP...enhances the participant's ability to perform the duties of a paralegal; to seek and obtain employment as a paralegal; apply paralegal skills in an actual workplace setting; to perform legal research and writing; and understand law office systemsand administration. Students are responsible for seeking and obtaining an internship position for a minimum of 144 hours in a legal environment under the supervision of an attorney or other qualified professional, completing an internship agreementand e-folio, maintaining a work log and obtaining approval from the internship instructor. COREREQUISITE: 10110105 Legal Writing

PERSONAL BRANDING-PARALEGAL...prepares the student to prepare an electronic portfolio, to develop a career plan, write a resume, create a cover letter, prepare for an interview, search for work on the internet, adapt a resume for an electronic scan, and post a resume and cover letter on the internet.

PRINCIPLES OF SUSTAINABILITY...prepares students to develop sustainable literacy, analyze interconnections among physical and biological sciences and environmental systems, summarize effects of sustainability on health and well-being, analyze connections among social, economic, and environmental systems, employ energy conservation strategies to reduce use of fossil fuels, investigate alternative energy options, evaluate options to current waste disposal/recycling in the U.S., and analyze approaches used by your community. COREQUISITE: Reading placement assessment or equivalent

REAL ESTATE LAW - PARALEGAL...provides the learner with the skills to analyze types of real estate ownership; analyze the effect of the Marital Property Act on real estate; determine the requirements of listing contracts; draft legal descriptions; draft an offer to purchase; negotiate a real property sale; prepare financing documents; compare abstracting and title insurance; record deeds; compare land contracts; summarize foreclosure procedure; draft closing documents; compare landlord and tenant rights and responsibilities. COREQUISITE: 10110101 Introduction to Paralegalism and Legal Ethics

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. PREREQUISITE: 10831103 Intro to College Wrlg or Writing placement assessment equivalent and COREQUISITE: 10838105 Intro Rdg & Study Skills or Reading placement assessment equivalent



MACHINIST • APPRENTICE

Program Number 50-420-2 4-Year Contract Work Hours (including related instruction): 8000 Related Instruction Hours: 432 • Night School Hours: 8

| Catalog No | . Class Title C | redit(s) |
|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| 50420714 50420713 | Term 1 Engineering Drawings for Machine Trac Apprentice 1 Precision Measurement for Machine To Trades | |
| 50420734 50420715 50420720 | Term 2 Mathematics for Machinist Apprentice 7 Mechanical Hardware and Hand Tools for Machine Trades Apprentice Materials and Cut-Off Machines for Machine Trades | 1 1 0.5 0.5 2 |
| 50420721 50420722 50420718 50420717 | Term 3 Math for Machine Trades 2 Engineering Drawings for Machine Trades 2 Drilling Machines for Machine Trades Apprentice Milling Machines for Machine Trades Apprentice | 0.5 0.5 0.5 0.5 2 |
| 50420724 50420716 50420723 | Term 4 CNC Programming and Planning for Machine Trades Turning Machines for Machine Trades Apprentice Intro to CAM for Machine Tools Trades Apprentice | 1 0.5 0.5 2 |
| 50420725 50420726 50420719 | Term 5 Basic CAD/CAM for Machine Trades Apprentice Jig and Fixture Design for Machine Trad Apprentice Grinding Machines for Machine Trades Apprentice | |
| 50420733 50420727 50420731 | Term 6 CNC Operations for Machine Tool Trad Apprentice Geometric Design and Tolerancing for Machine Trades Metallurgy for Machine Trades Apprentice | 0.5 |

TOTAL 12

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with the Apprenticeship Office for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

2023-24

ABOUT APPRENTICESHIP

Apprenticeships are employer-sponsored training programs. You must have a contract before being invited to school. A special application process is used for these programs. Please contact the Apprenticeship Office for the proper forms. Apprenticeship means you earn while you learn. If you want a career in a skilled trade, apprenticeship is the best way to get there. You'll combine on-the-job training with on-campus learning— you'll have the best of both worlds when it comes to learning the skills you need to get ahead. And even better, you'll earn a paycheck while you learn those skills.

ABOUT THE CAREER

Machines allow industry to produce large quantities of materials quickly, precisely, and cost-effectively. But without high-skilled operators, the machines are useless. That's where you come in. The Machinist Apprenticeship program is an employer-sponsored, hands-on training program in which you'll learn all phases of the machinist occupation. If you're interested in working with mechanical equipment and following precise plans to produce materials of the highest quality, becoming a journey-level machinist may be the perfect career for you.

CAREERS

Graduates of LTC's Machinist Apprenticeship program work as journey-level machinists in a variety of industrial settings.

INDUSTRIAL APPRENTICE APPLICATION REQUIREMENTS

- · Determined by employer
- Wisconsin Apprentice Contract

PROGRAM OUTCOMES

- Inspect parts and material.
- Apply knowledge of milling machine operations, including manual and/or CNC controlled.
- Apply principles of drilling machine operations, including manual and/or CNC controld
- · Compare turning machine operations, including manual and/or CNC controlled.
- Apply metallurgical principles to materials and work processes.
- · Compare practices for assembling parts per specifications.

APPROXIMATE COSTS

Contact the LTC Apprenticeship Office or visit www.gotoltc.edu/apprenticeship for detailed information.

SPECIAL NOTE

You must have a sponsoring employer and contract before attending school.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

BASIC CAD/CAM FOR MACHINE TRADES APPRENTICE...is designed to provide concepts and techniques used in computer-aided design (CAD) and computeraided manufacturing (CAM) as part of their related instruction. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

CNC OPERATIONS FOR MACHINE TOOL TRADES APPRENTICE...will examine CNC related operations and safety. Course competencies include classifying types of equipment, comparing CNC tooling, setup, and work holding operations. Additional CNC programming skill development is included in the course. CNC controls and communications are explored as well. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

CNC PROGRAMMING AND PLANNING FOR MACHINE TRADES...is a classroom introduction to CNC programming for apprentices, with a focus on CNC turning and milling centers. Apprentices will create set up sheets, develop tool lists, calculate speeds and feeds, assign tool offsets and write CNC program. CONDITION: 504393 Tool & Die Apprentice or 504202 Machinist Apprentice prog requirements met

DRILLING MACHINES FOR MACHINE TRADES APPRENTICE...focuses on the safety, terminology, construction and operations of drilling machines in the metalworking industry. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

ENGINEERING DRAWINGS FOR MACH TRADES APPRENTICE 1...will acquaint the apprentice with the interpretation of engineering prints and other technical and manufacturing documentation. The primary focus of the course will be on that part of manufacturing most closely related to machining and tooling. Background information is provided relative to the process used to create and finish the product or piece part on the prints being studied. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

ENGINEERING DRAWINGS FOR MACHINE TRADES 2...prepares the learner to interpret manufacturing prints to extract detailed information about threads, sections, auxiliary views, fasteners, surface finishes, welding symbols, assembly, geometric location, and tolerances. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

GEOMETRIC DESIGN AND TOLERANCING FOR MACHINE TRADES...

will acquaint the apprentice with the skills to interpret the geometric dimensions and tolerances found on engineering drawings and in other industrial documents. Instruction concentrates on interpreting the symbols, identifying tolerance zones and determining ways to check parts for conformity to the specified geometric controls. Reference is made to ASME Y14.5M - 1994. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

GRINDING MACHINES FOR MACHINE TRADES APPRENTICE... focuses on the safety, terminology, construction, and operation of grinding machines in the metal working industry. It instructs apprentices in the use of traditional grinding machines and the attachments and accessories frequently encountered in manufacturing operations that use the common grinding processes. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

INTRO TO CAM FOR MACHINE TOOLS TRADES APPRENTICE...is widely used in industry for creating G&M code programs for CNC machines. In this course the learner will explore the Mastercam interface. You will be determining the proper post processors for the work being done. Create and edit basic geometry. Create and edit tool paths for basic operations. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

JIG AND FIXTURE DESIGN FOR MACHINE TRADE APPRENTICE... introduces the apprentice to the concepts of jig and fixture design as part of their apprentice related instruction. Topics include the basic elements of tool design, jig and fixture application, and the actual design of tooling. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

MATERIALS AND CUTOFF MACHINES FOR MACHINE TRADES...prepares the learner to identify metal composition and classification, follow cutoff machine tool safety rules, operate horizontal cutoff machine tools, and operate vertical machine tools. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

MATH FOR MACHINE TRADES 2...prepares the learner to interpret symbols used in algebraic expressions, solve equations by the rearrangement of formulas, use formulas, solve unknown angles using angular principles, and solve for the angles and length of sides in right triangles. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

MATHEMATICS FOR MACHINIST APPRENTICE 1...provides applied mathematics instruction from a review of basic arithmetic; basic algebra; applications based on geometry; right triangle trigonometry and oblique angle trigonometry; and compound angles. CONDITION: 504393 Tool and Die Apprentice or504202 Machinist Apprentice program requirements met

MECHANICAL HARDWARE & HAND TOOLS FOR MACHINE TRADES

APPRENTICE...provides instruction for the apprentice in the recognition, selection, and operation of mechanical hardware and hand tools. Apprentices are taught to use outside sources to select correct component or tool sizes, characteristics, and operating parameters. Apprentices will sharpen drills and single point cutting tools. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program reqs met

METALLURGY FOR MACHINE TRADES APPRENTICES... prepares the learner to interpret the properties of ferrous and non-ferrous materials as well as how to heat treat and test the hardness of ferrous materials. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

MILLING MACHINES FOR MACHINE TRADES APPRENTICE...will instruct apprentices on the basic principles of vertical and horizontal milling machines for the machine tool trade. Instruction includes safety, basic parts and functions of the machines, work holding devices, tooling requirements, and feeds and speeds. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

PRECISION MEASUREMENT FOR MACHINE TOOL TRADES...is designed to acquaint the apprentice with the measurement systems and tools most frequently used in layout and machining processes. Learning outcomes relate to semi-precision through super-precision measuring tools and equipment combined with opportunities to investigate new technologies. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

TURNING MACHINES FOR MACHINE TRADES APPRENTICE...will acquaint the apprentice with the terminology, methods, and operations for turning machines used in the metal-working industry. Apprentices will learn to perform calculations needed to operate turning machines including speed and feed calculations. Apprentices will make calculations necessary to setup a turning machine for screw threads and taper operations. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

LAKESHORE TECHNICAL COLLEGE

MAINTENANCE MECHANIC

Program Number 31-462-2 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

Machines are important in our lives-directly or indirectly. Broken or inefficient machines slow the pace of manufacturing and, ultimately, profits. To remain competitive in today's fast-paced industrial/manufacturing environment, equipment needs to be maintained to run at peak performance. If you like to troubleshoot problems, put theory to work hands-on, and have interests in math and mechanical processes, a career in industrial maintenance may be your key to success.

PROGRAM OUTCOMES

- · Demonstrate safe work procedures.
- · Install industrial equipment.
- · Maintain industrial equipment.
- · Troubleshoot industrial equipment.
- · Repair industrial equipment.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Students may need to supply their own safety glasses and welding gloves.

RELATED PROGRAMS

- Millwright Apprenticeship
- Electro-Mechanical Maintenance Technician
- Electro-Mechanical Automation Technology

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

| Catalog No. Class Title | | Credit(s) |
|-------------------------|----------------------------------------------------------------|-----------|
| 10804113 | Term 1 College Technical Math 1A OR 10804198 Calculus 1* | 3 |
| 10462109 | Maintenance Introduction | 1 |
| 10462111 | Maintenance Print Reading | 2 |
| 10462107 | Tools and Measurement | 1 |
| 10620122 | Industrial Wiring | 2 |
| 10420194 | Machine Tool Introduction | 2 |
| 10442100 | Safety and Welding Fundamentals | 1 |
| 10457103 | Fabrication Introduction | 1 |
| 10462115 | Layout and Rigging | 1 |

Term 2

| Pumps, Fluid/Air Handling | 2 |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Hydraulics and Pneumatics | 3 |
| Lathes 1 | 1 |
| Mills 1 | 1 |
| Bearings and Lubrication | 2 |
| Power Transmission | 3 |
| Troubleshooting and Machine Repair | 3 |
| Oral/Interpersonal Communication | 3 |
| | 18 |
| | Hydraulics and Pneumatics Lathes 1 Mills 1 Bearings and Lubrication Power Transmission Troubleshooting and Machine Repair |

TOTAL 32

14

*Calculus 1 is designed for students planning to transition to a 4-year college following LTC program completion.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

BEARINGS AND LUBRICATION...prepares the learner to properly identify, remove, install, and maintain both plain and rolling element bearings used with either a radial or axial load, including ball, cylindrical roller, tapered roller, linear, and thrust bearings; use manufacturers' resources for proper usage and life of bearings; and look at proper types, properties, and application methods of lubrication. PREREQUISITES: 10804113 College Tech Math 1A and 10462109 Maintenance Intro or 31462309 Industrial Maintenance Intro

COLLEGE TECHNICAL MATHEMATICS 1A...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. COREQUISITE: Math placement assessment or equivalent

FABRICATION INTRODUCTION...introduces the learner to various types of structural steel, sheet metal, and pipe, and prepares the learner to perform fabrication from assembly prints, including cutting, welding, bending, straightening, and repair. COREQUISITE: 10442100 Welding Introduction or PREREQUISITES: 31442346 Industrial Maintenance Intro to Welding or 31442300 Welding Intro

HYDRAULICS AND PNEUMATICS...prepares the learner to identify hydraulic and pneumatic component symbols and terms, adjust a pressure relief valve, analyze the operation of a pilot operated relief valve; analyze Pascal's law; evaluate flow, velocity, work and power in industrial hydraulic and pneumatic circuits,; analyze meter-in, meterout, and bypass flow control circuits; identify basic hydraulic and pneumatic control valves; and assemble hydraulic circuits. PREREQUISITES: 10804113 College Tech Math 1A

INDUSTRIAL WIRING...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits.

LATHES 1...introduces the student to the characteristics and attributes of turning tools: follow engine lathe safety rules, identify engine lathe components, perform facing and center drilling operations, perform turning operations. COREQUISITE: 10462107 Tools and Measurement or PREREQUISITE: 31462325 Maintenance Tools and Measurement or CONDITION: 324571 Welding Fab

LAYOUT AND RIGGING...prepares the learner to perform layout skills for industrial maintenance to include machine layout, proper rigging, installation, and leveling with emphasis on baseline layout, machine rigging and installation, machine leveling, and alignment procedures. Participants will obtain lift truck operation certification upon completion. COREQUISITE: 10462109 Maintenance Intro

MACHINE TOOL INTRODUCTION...prepares the learner with the skills to identify basic types of machining processes, follow standard shop safety rules, use semiprecision and precision measuring tools, perform workpiece layout procedures, identify metal composition and classification, follow cutoff machine safety rules, operate vertical and horizontal cutoff machines, follow sensitive drill press safety rules, identify drill press components, interpret attributes of hole-producing tools, and operate a sensitive drill press.

MAINTENANCE INTRODUCTION...prepares the learner to apply basic safety, mechanics, force, friction, work, and energy; learn terminology related to maintenance; introduction to threaded and non-threaded fasteners and concrete anchoring; learn to use precision measuring tools; introduction to single-phase and three-phase motor wiring. PREREQUISITE: 31462325 Maintenance Tools and Measurement or COREQUISITE: 10462107 Tools and Measurement

MAINTENANCE PRINT READING...prepares the learner to read prints; make isometric sketches; interpret orthographic projection drawings, to include sections, surface finishes, and tolerancing. The course when delivered in the evening is selfpaced, open-entry/exit, and designed for individualized student needs.

MILLS 1...prepares the learner to identify vertical milling machine components, select cutting tools and workholding device(s), apply safety rules, set up the vertical milling machine, and mill square surfaces. COREQUISITE: 10462107 Tools and Measurement or PREREQUISITE: 31462325 Maintenance Tools and Measurement or CONDITION: 324571 Welding Fab

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

POWER TRANSMISSION...introduces the learner to belt, chain, and gear drives used in industrial maintenance applications, including v-belts, flat belts, timing belts, conveyor chains, roller chains, bevel gears, worm gears, helical gears, spur gears, couplings, and alignment with emphasis on identification, installation, repair, and maintenance. COREQUISITE: 10462127 Bearings and Lubrication or PREREQUISITE: 10462119 Bearings and Lubrication

PUMPS, FLUID/AIR HANDLING...prepares the learner to identify, install, repair, and maintain common pumps and plumbing applications, including centrifugal pumps, diaphragm pumps, packing and seals, tubing, and installing hose and piping used with fluid and air handling. COREQUISITE: 10620155 Hydraulics and Pneumatics and 10462119 Power Transmission

SAFETY AND WELDING FUNDAMENTALS...introduces the learner to the world of welding, weld shop safety practices, welding terminology, and welding machine setup to industry standards. Learners will be introduced to the three major welding processes: SMAW, GMAW, and GTAW and will build skills welding with each process in the flat and horizontal positions while using the common welding joints found in industry. The learner will process material using the two major hand-held cutting processes - Oxyfuel and PAC.

TOOLS AND MEASUREMENT...prepares the learner to use hand tools, precision measuring instruments, and torque tools.

TROUBLESHOOTING AND MACHINE REPAIR...prepares the learner to perform essential troubleshooting, repair, and preventive maintenance of various machine tools and installations used in industrial maintenance and to integrate the skills learned in the other maintenance courses to perform complete repair of machine tools. PREREQUISITE: 10620122 Industrial Wiring

APPRENTICE

Program Number 50-423-1 4-Year Contract Work Hours (including related instruction): 8320 Related Instruction Hours: 576 • Night School Hours: 8

| | Catalog No. | Class Title | Credit(s) | |
|---------------------------------|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|--|
| ract ams. ns ne get | 50423710 50423713 50423717 | Term 1 Math for MMMP Precision Measurements for MMM Electricity for MMMP | 1 | |
| 0 | 50423711 50423740 | Term 2 Print Reading for MMMP Mechanical Fastening and Safety for | 1 MMMP 1 2 | |
| ep ities v ted | 50423741 50423714 | Term 3 Equipment Installation for MMMP Rigging for MMMP | 1 1 2 | |
| (as | 50423738 50423716 50423715 | Term 4 Sheet Metal and Structural Steel for M Metallurgy for MMMP Welding for MMMP | IMMP 0.75 0.5 0.75 2 | |
| | 50423742 50423743 | Term 5 Power Transmission Principles for M Power Transmission Drives for MM | | |
| | 50423731 50423744 50423724 | Term 6 Couplings and Alignment for MMM Bearings and Lubrication for MMM Preventative and Predictive Mainte for MMMP | P 1 | |
| | 50423720 50423722 50423732 | Term 7 Pipefitting and Valves for MMMP Packings, Seals, and Gaskets for M Pumps for MMMP | 0.75 MMP 0.5 0.75 2 | |
| | 50423721 50423745 | Term 8 Hydraulic Systems for MMMP Pneumatic Systems for MMMP | 1 1 2 | |
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Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with the Apprenticeship Office for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ABOUT APPRENTICESHIP

Apprenticeships are employer-sponsored training programs. You must have a contract before being invited to school. A special application process is used for these programs. Please contact the Apprenticeship Office for the proper forms. Apprenticeship means you earn while you learn. If you want a career in a skilled trade, apprenticeship is the best way to get there. You'll combine on-the-job training with on-campus learning— you'll have the best of both worlds when it comes to learning the skills you need to get ahead. And even better, you'll earn a paycheck while you learn those skills.

ABOUT THE CAREER

Maintenance mechanics and millwrights install, dismantle, or move machinery and heavy equipment according to layout plans, blueprints, or other drawings. They keep machines, mechanical equipment, or the structure of an establishment in repair. Duties may involve pipe fitting; boiler making; insulating; welding; machining; carpentry; repairing electrical or mechanical equipment; installing, aligning, and balancing new equipment; and repairing buildings, floors, or stairs. This program provides the related instruction portion for this trade's apprenticeship.

CAREERS

Graduates of LTC's Maintenance Mechanic/Millwright Apprenticeship program work as journey-level maintenance mechanics/millwrights in a variety of industrial and organizational settings.

INDUSTRIAL APPRENTICE APPLICATION REQUIREMENTS

- · Determined by employer
- Wisconsin Apprentice Contract

PROGRAM OUTCOMES

- Demonstrate proper rigging techniques.
- · Select an appropriate power transmission system for a given application.
- Identify suitable pumps for given applications.
- · Recommend bearings for given applications.
- Plan for fabricating parts and assemblies according to specifications.
- Apply operational and troubleshooting principles to fluid power systems.
- · Lay out an equipment installation plan.
- Plan maintenance schedules for a given system.

APPROXIMATE COSTS

Contact the LTC Apprenticeship Office or visit www.gotoltc.edu/apprenticeship for detailed information.

SPECIAL NOTE

You must have a sponsoring employer and contract before attending school.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

BEARINGS AND LUBRICATION FOR MMMP...examines bearing types and applications, and compares various equipment bearings. Apprentices will develop skills related to bearing inspection, selection, removal, mounting, and diagnosing bearing failures. Apprentices will also examine the types, principles, and applications of bearing and machine lubricants and lubricating systems. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

COUPLINGS AND ALIGNMENT FOR MMMP...compares different coupling types and examines common misalignment problems. Apprentices will develop skills related to inspecting, troubleshooting, lubricating, and preparing couplings for removal and installation by using dial indicators and laser aligners. This course will also discuss types and principles of clutches and brakes. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

ELECTRICITY FOR MMMP...examines basic electrical terms and theory. Apprentices will learn motor wiring, multimeter use as well as lockout tagout as it applies to electricity. CONDITION: 504231 Millwright Apprentice or 504641 Maintenance Technician Apprentice requirements met

EQUIPMENT INSTALLATION FOR MMMP...provides knowledge regarding common practice procedures for the layout of equipment installations, planning for moving equipment, and methods for setting and leveling equipment. This class will also examine the principles of concrete as well as anchoring of equipment in concrete. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

HYDRAULIC SYSTEMS FOR MMMP...provides instruction to apprentices concerning many aspects of inspecting, servicing, and troubleshooting hydraulic systems and components. Apprentices will learn safety related issues and be taught proper safety procedures for working with hydraulic systems and components. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

MATH FOR MMMP...examines math concepts as they relate to millwrights and machine maintenance. Apprentices will develop skills related to converting fractions to decimals; using both standard and metric systems; applying basic algebra to solving problems; computing area, volume, mass, and torque; using trigonometry; and using math charts, tables and references in support of common work processes. CONDITION: 504231 Millwright Apprentice or 504641 Maintenance Technician Apprentice requirements met

MECHANICAL FASTENING AND SAFETY FOR MMMP...examines safety as it relates to hand and power tools and explores the theory and application of torque in the MMMP Trades. Apprentices will compare fasteners and their uses, analyze fastener failures, and install various mechanical fasteners. In addition, apprentices will compare adhesives and sealant types and applications, develop skills related to applying them in repair applications, interpreting SDS information, and handling hazardous materials. CONDITION: 504231 Millwright Apprentice or 504641 Maintenance Technician Apprentice requirements met

METALLURGY FOR MMMP...develops apprentice skills regarding metallurgical concepts. Apprentices will compare various metals and their applications, apply metallurgical techniques to work processes, test metals for hardness, and examine heat treating applications. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PACKINGS, SEALS, AND GASKETS FOR MMMP...will examine packings, seals, and gaskets and compare materials and applications. The skills in layout, cutting, inspecting, removing, and installing these components will be developed. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PIPEFITTING AND VALVES FOR MMMP...introduces apprentices to principles, application and types of pipe, materials, fittings, tubing, and valves, and develops skills related to layout, installation, and maintenance. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PNEUMATIC SYSTEMS FOR MMMP...provides instruction to apprentices concerning many aspects of inspecting, servicing, and troubleshooting pneumatic systems and components. Concepts of compressed air systems and vacuum systems will also be evaluated. Apprentices will learn safety related issues and be taught proper safety procedures for working with pneumatic systems and components and examine preventive maintenance techniques commonly used on the job. PREREQS: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

POWER TRANSMISSION DRIVES FOR MMMP...examines drive transmission systems and applications, including gear drives, chain drives, belt drives, and conveyor systems. Apprentices will compare different types of gear drive systems and components, chain drive systems and components, belt drive systems and components, as well as different types of conveyors and their related components. Apprentices will develop skills necessary for inspecting, troubleshooting, removing, selecting, and installing components used in the various mechanical drive transmission systems. PREREQS: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

POWER TRANSMISSION PRINCIPLES FOR MMMP...examines the physics and principles of simple machines and how those principles are used in the development of the skills necessary for inspecting mechanical power transmission systems and troubleshooting mechanical drive systems. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PRECISION MEASUREMENTS FOR MMMP...develops apprentice skills in precision measurement. Types of measuring instruments will be compared and then measuring skills using tapes, steel rules, micrometers, calipers, indicators, and gauges will be developed. CONDITION: 504231 Millwright Appr or 504641 Maint Tech Appr reqs met

PREVENTIVE AND PREDICTIVE MAINTENANCE FOR MMMP...examines both preventive and predictive maintenance concepts as they apply to millwright work processes and machine maintenance including vibration and lubrication analysis. Apprentices will develop skills related to assessing machine conditions and faults based on both preventative and predictive maintenance. PREREQS: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PRINT READING FOR MMMP...explores reading prints commonly used by millwrights and machine maintenance workers. Course competencies include comparing types of prints, interpreting structural drawings, identifying parts from prints, and developing apprentice sketching drawing skills. CONDITION: 504231 Millwright Apprentice or 504641 Maintenance Technician Apprentice requirements met

PUMPS FOR MMMP...compares different pump types including centrifugal, diaphragm, gear, vane and their applications. Apprentices will complete a field inspection of pumps and learn how to troubleshoot, remove, overhaul, and install and perform preventative maintenance on pumps. PREREQUISITES: 50423717 MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423712 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

RIGGING FOR MMMP...will compare types of rigging equipment and their uses; determine safe loads, rig & crib loads, and move a load with cranes and hoists, including signaling. Will also cover usage and the safety of ladders and scaffolding. PREREQS: 504423170 Math for MMMP, 50423713 Precision Meas MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mech Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

SHEET METAL AND STRUCTURAL STEEL FOR MMMP...compares types of sheet metal and tools used by the trade. Apprentices will develop skills related to fabricating sheet metal and structural steel, including layout, bending and forming, as well as erecting structural steel. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

WELDING FOR MMMP...compares common welding processes and develops apprentice skills related to welding, cutting, heating and using oxy-gas. Welding with arc, MIG and TIG is included, along with common cutting and joining techniques. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

MAINTENANCE TECHNICIAN • APPRENTICE

Program Number 50-464-1 5-Year Contract Work Hours (including related instruction): 10,000 Related Instruction: 1,296 hours • Night School: 8 hours

Credit(s) Catalog No. Class Title Term 1 50423710 Math for MMMP Precision Measurements for MMMP Electricity for MMMP 50423713 0.5 50423717 0.5 50413750 DC Electricity for IE Part 1 50413773 Safety and Print Reading for IE Industrial Electrician Motor Controls 1 0.5 50413762 50413752 Codes for IE: Intro to the NEC 0.5 5 Term 2 Print Reading for MMMP Mechanical Fastening and Safety for MMMP DC Electricity for IE Part 2 Industrial Electrician Motor Controls 2 50423711 50423740 50413774 50413763 50413756 Codes for IE: Article 300. Cords/Cables 0.5 4.5 Term 3 50423741 Equipment Installation for MMMP 50423714 Rigging for MMMP AC Electricity for IE Part 1 50413751 50413764 Industrial Electrician Motor Controls 3 50413757 Codes for IE: Conductors, Raceways, Data 0.5 Cables 4.5 Term 4 50423738 Sheet Metal and Structural Steel for MMMP 0.75 Metallurgy for MMMP Welding for MMMP 50423716 0.50 50423715 0.75 50413775 AC Electricity for IE Part 2 IE Programmable Logic Controllers 1 Codes for IE: OCPD and Electrical Device 50413769 50413753 0.5 4.5 Term 5 50423742 Power Transmission Principles for MMMP 0.5 50423743 50413760 Power Transmission Drives for MMMP 1.5 Industrial Electrician Transformers 50413770 IE Programmable Logic Controllers 2 0.5 50413759 Codes for IE: Transformers 4.5 Term 6 50423731 Couplings and Alignment for MMMP 0.5 50423744 Bearings and Lubrication for MMMP Preventative and Predictive Maintenance for 50423724 0.5 MMMP 50413761 IE Motors and Generators 1 50413771 IE Programmable Logic Controllers 3 50413758 Codes for IE: Motors and Generators 0.5 4.5 Term 7 Pipefitting and Valves for MMMP Packings, Seals, and Gaskets for MMMP 50423720 0 75 50423722 0.5 Pumps for MMMP IE Solid State Electronics 0.75 2 50423732 50413768 50413767 Fluid Power systems for IE - Hydraulics 0.5 Fluid Power Systems for IE- Pneumatics 50413766 0.5 5 Term 8 50423721 Hydraulic Systems for MMMP 1 50423745 Pneumatic Systems for MMMP 50413765 Power Systems & Variable Speed Drives for IE 2 50413776 Codes for IE: Article 250 0.5 Alternative Energy Systems for IE 50413772 0.5 5 **TOTAL 37.5**

2023-24

ABOUT APPRENTICESHIP

Apprenticeships are employer-sponsored training programs. You must have a contract before being invited to school. A special application process is used for these programs. Please contact the Apprenticeship Office for the proper forms. Apprenticeship means you earn while you learn. If you want a career in a skilled trade, apprenticeship is the best way to get there. You'll combine on-the-job training with on-campus learning—you'll have the best of both worlds when it comes to learning the skills you need to get ahead. And even better, you'll earn a paycheck while you learn those skills.

ABOUT THE CAREER

Maintenance Technicians work in industrial manufacturing and safely perform mechanical and electrical duties to keep machines, equipment, or the structure of a facility in repair. The Maintenance Technician Apprenticeship program is employer sponsored. This program combines the on-the-job hands-on training with related training at the technical college. Some hands-on training is used to reinforce the related training. Thus, skills are developed to help the technician keep machines and equipment operating and productive. If you like to maintain, repair, and troubleshoot problems and put theory to work, a career as a maintenance technician may be your ticket to success.

CAREERS

Graduates of LTC's Maintenance Technician Apprenticeship program work as journey-level maintenance technicians in a variety of industrial and organizational settings.

INDUSTRIAL APPRENTICE APPLICATION REQUIREMENTS

- Determined by employer
- Wisconsin Apprentice Contract

PROGRAM OUTCOMES

- Demonstrate proper rigging techniques.
- Select an appropriate power transmission system for a given application.
- Identify suitable pumps for given applications.
- Recommend bearings for given applications.
- Plan for fabricating parts and assemblies according to specifications.
- Apply operational and troubleshooting principles to fluid power systems.
- · Lay out an equipment installation plan.
- Plan maintenance schedules for a given system.
- Apply AC and DC theory to an industrial setting.
- Apply the National Electric Code requirements to industrial equipment and facilities.
- Apply operational and troubleshooting principles to a transformer installation.
- Maintain electric motors and motor controls.
- Test solid-state electronic system components.
- Apply operational and troubleshooting principles to power systems & variable speed drives.
- Apply operational and troubleshooting principles to programmable logic controllers and automation equipment.
- Apply operational and troubleshooting principles to fluid power systems.
- Interpret industrial equipment drawings and electrical prints.
- Communicate trade and occupational-related information effectively.

APPROXIMATE COSTS

Contact the LTC Apprenticeship Office or visit www.gotoltc.edu/apprenticeship for detailed information.

SPECIAL NOTE

You must have a sponsoring employer and contract before attending school.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with the Apprenticeship Office for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

AC ELECTRICITY FOR IE PART 1...introduces the industrial electrical apprentice to the basic concepts of alternating current. Emphasis is placed on circuit analysis and the problem solving skills necessary for the maintenance of the modern industrial electric systems. CONDITION: 504131 Ind Electrician Apprentice or 504641 Maintenance Techn Apprentice reqs met

AC ELECTRICITY FOR IE PART 2...introduces the industrial electrical apprentice to the basic concepts of alternating current. Emphasis is placed on circuit analysis and the problem solving skills necessary for the maintenance of the modern industrial electric systems. CONDITION: 504131 Ind Electrican Apprentice or 504641 Maintenance Tech Apprentice reqs met

ALTERNATIVE ENERGY SYSTEMS FOR IE...examines new and emerging technologies influenced by alternative energy trends which are impacting work processes today and in the future. The course introduces apprentices to alternative energy systems related knowledge and skills. Topics covered in this course include energy efficiency; energy conservation; changes in state, national and local codes; lighting alternatives; alternative energy generation; energy efficient motors, drives, controllers, and equipment. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

BEARINGS AND LUBRICATION FOR MMMP...examines bearing types and applications, and compares various equipment bearings. Apprentices will develop skills related to bearing inspection, selection, removal, mounting, and diagnosing bearing failures. Apprentices will also examine the types, principles, and applications of bearing and machine lubricants and lubricating systems. PREREQUES: 50423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

CODE FOR IE: ARTICLE 250...examines the application of grounding to industrial electrical situations as required by the NEC and other electrical codes. Apprentices will complete their review of this portion of the NEC and examine additional related electrical codes in effect across Wisconsin. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

CODES FOR IE: ARTICLE 300 CORDS/CABLES...examines course five of eight, article 300 of the NEC and wiring methods for industrial electrical applications. In addition, apprentices will determine sizing requirements for cords and cables for installations common to industrial facilities. Finally, the ourse will identify code requirements for equipment installations in hazardous locations. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Tech Apprentice reg met

CODES FOR IE: CONDUCTORS, RACEWAYS, DATA CABLES...examines course six of eight covering selection of proper conductors and raceways for industrial electrical installations as required by the NEC and other electrical codes. In addition, course competencies will induce examining the installation requirements for data and communication cables. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

CODES FOR IE: INTRO TO THE NEC...introduces the apprentice to the layout and purpose of the National Electric Code (NEC). It also strives to teach the apprentice proper methodology to research a code question and correctly interpret what they are reading. Apprentices will research the structure of the NEC and define the requirements of the code that are common to all electrical installations. In addition, apprentices will examine the installation requirements for fire purps, emergency systems and fire alarms. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice regs met

CODES FOR IE: MOTORS AND GENERATORS...examines course seven of eight which reviews the code requirements for the selection of electrical components for typical industrial electrical motor installations. Course module includes sizing of controls, conductors, switches, branches, and more. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

CODES FOR IE: OCPD AND ELECTRICAL DEVICE...introduces the industrial electrical apprentice how to plan for the installation of overcurrent protection devices and how to select the proper boxes, cabinets and conduits for industrial electrical codes. This is the second of 8 course modules on the NEC. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

CODES FOR IE: TRANSFORMERS...examines course eight of eight which reviews the electrical code requirements which provide for the protection of various industrial transformer installations. Course competencies include developing plans, sizing quipment and components, safety, and references to applicable sections of the NEC. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

COUPLINGS AND ALIGNMENT FOR MMMP...compares different coupling types and examines common misalignment problems. Apprentices will develop skills related to inspecting, troubleshooting, lubricating, and preparing couplings for removal and installation by using dial indicators and laser aligners. This course will also discuss types and principles of clutches and brakes. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adnesives & Sealants MMMP Trades)

DC ELECTRICITY FOR IE PART 1...introduces the fundamental concepts of and computations related to DC electricity. Emphasis is placed on circuit analysis and the problem solving skills necessary for the maintenance of modern industrial electric systems. Competencies related to metering and safe use of measuring devices are included. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

DC ELECTRICITY FOR IE PART 2...introduces the fundamental concepts of and computations related to DC electricity. Emphasis is placed on circuit analysis and the problem solving skills necessary for the maintenance of modern industrial electric systems. Competencies related to metering and safe use of measuring devices are included. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

ELECTRICITY FOR MMMP...examines basic electrical terms and theory. Apprentices will learn motor wiring, multimeter use as well as lockout tagout as it applies to electricity. CONDITION: 504231 Millwright Apprentice or 504641 Maintenance Technician Apprentice requirements met

EQUIPMENT INSTALLATION FOR MMMP...provides knowledge regarding common practice procedures for the layout of equipment installations, planning for moving equipment, and methods for setting and leveling equipment. This class will also examine the principles of concrete as well as anchoring of equipment in concrete. PREREQS: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

FLUID POWER SYSTEMS FOR IE - HYDRAULICS...examines hydraulics course customized for industrial electricians and relates the basics of hydraulic theory and hydraulic components. Safely and the interrelationshelvemen hydraulic power with electrical control is emphasized. CONDITION: 504131 Ind Electrician Appendice or 504641 Maint Tech Appendice regs met

FLUID POWER SYSTEMS FOR IE - PNEUMATICS...examines pneumatics customized for industrial electrician apprentices who deal with fluid power systems. This course will relate the basics of pneumatic theory and pneumatic components. Safety and the interrelationship between hydraulic power with electrical control is emphasized. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

HYDRAULIC SYSTEMS FOR MMMP...provides instruction to apprentices concerning many aspects of inspecting, servicing, and troubleshooting hydraulic systems and components. Apprentices will learn safety related issues and be taught proper safety procedures for working with hydraulic systems and components. PREREQUISITES: So4423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

IE MOTORS AND GENERATORS...introduces the industrial electrician apprentices to explore motor controls. This course introduces concepts, terminology, and safety. In addition, this is designed to give the Industrial Electrician Apprentice the knowledge required by industry to maintain electric motors and generators. This course material will cover DC motors and generators, single-phase and three-phase motors, as well as alternators. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

IE PROGRAMMABLE LOGIC CONTROLLERS 1...designed to teach the fundamentals of programmable logic controller and its programming software. The first course of 3 will introduce terminology, concepts, print reading and safety. CONDITION: 504131 Industrial Electrician Appendice or 504641 Maintenance Technican Appendice requirements met

IE PROGRAMMABLE LOGIC CONTROLLERS 2...examines second of three courses for industrial electrician apprentices. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice regs met

IE PROGRAMMABLE LOGIC CONTROLLERS 3... examines third course of three for industrial electrician apprentices. PLC applications and assessment projects are planned. CONDITION: 504131 Ind Electrician Appr or 504641 Main Tech Appr reqs met

IE SOLID STATE ELECTRONICS...provides apprentice with the skills and knowledge for troubleshooting basic solidstate devices and circuits. The construction, identification, and operating characteristics of solid-state devices are investigated. The apprentice builds test circuits, gathers and analyzes data, and follows safety procedures. Methods for locating defective component are applied. Replacement of printed circuit board components is performed. Also examined is the effect of temperature on devices. CONDITION: 504131 Ind Electrician Apprentice or 504641 Maintenance Technician Apprentice reqs met INDUSTRIAL ELECTRICIAN MOTOR CONTROLS 1...introduces learner through the fundamentals of electric motor control. Will earn to recognize and draw the basic symbols; the language of motor controls, and how to apply these symbols into current industrial format. Will also learn to draw ladderand wiring diagrams. Introduced to the logic used in motor control and be required to apply this logic in order to correctly interpret, design and wire control circuits. CONDITION: 504131 Industrial Electrician Appendite Maintenance Technician Appendix perintice requirements met

INDUSTRIAL ELECTRICIAN MOTOR CONTROLS 2...examines second course of three and examines motor controls applicable to the industrial electrician trade. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

INDUSTRIAL ELECTRICIAN MOTOR CONTROLS 3...examines third of three courses examining motor controls applicable to the industrial electrician trade. Applications and assessment activities are intended in this course. CONDITION: 504131 Industrial Electrician Appentice or SO4641 Maintenance Technician Appentice requirements met

INDUSTRIAL ELECTRICIAN TRANSFORMERS...introduces Industrial Electrician Apprentice to the basic concepts of single and three-phase transformers. The course will cover transformer theory, turns, current and voltage ratios as well as proper connections and use of various transformers. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

MATH FOR MMMP...examines math concepts as they relate to millwrights and machine maintenance. Apprentices will develop skills related to converting fractions to decimals; using both standard and metric systems; applying basic algebra to solving problems; computing area, volume, mass, and torque; using frigonometry; and using math charts, tables and references in support of common work processes. CONDITION: 504231 Millwright Appr or 504641 Maint Tech Apprentice requirements met

MECHANICAL FASTENING AND SAFETY FOR MMMP...examines safety as it relates to hand and power tools and explores the theory and application of torque in the MMMP Trades. Apprentices will compare fasteners and their uses, analyze fastener failures, and install various mechanical fasteners. In addition, apprentices will compare adhesives and sealant types and applications, develop skills related to applying them in repair applications, interpreting SDS information, and handling hazardous materials. CONDITION: 504231 Millwright Apprentice or 504641 Maintenance Technician Apprentice requirements met

METALLURGY FOR MMMP...develops apprentice skills regarding metallurgical concepts. Apprentices will compare various metals and their applications, apply metallurgical techniques to work processes, test metals for hardness, and examine heat treating applications. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PACKINGS, SEALS, AND GASKETS FOR MMMP...will examine packings, seals, and gaskets and compare materials and applications. Skills in layout, cutting, inspecting, removing, and installing these components will be developed. PREREQS: 504423170 Math for MMMP, 50423713 Prec Meas MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mech Fasting & Shty MMMP or 50423712 Fashins MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PIPEFITTING AND VALVES FOR MMMP...introduces apprentices to principles, application and types of pipe, materials, fittings, tubing, and valves, and develops skills related to layout, installation, and maintenance. PREREC: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423714 Print Read MMMP and (50423740 Mech Fastering & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PNEUMATIC SYSTEMS FOR MMMP...provides instruction to apprentices concerning many aspects of inspecting, servicing, and troubleshooting pneumatic systems and components. The concepts of compressed air systems and vacuum systems will also be evaluated. Learn safety related issues and taught proper safety procedures for working with pneumatic systems and components and examine preventive maintenance techniques commonly used on the job. PREREOS. 504423170 Math for MMMP, 50423171 Precision Measure MMMP, 50423171 Electricity MMMP, 50423171 Pint Read MMMP and (50423140 Mech Fastening & Safety MMMP or 50423171 Electricity MMMP, 50423171 Pint Read MMMP and (50423140 Mech Fastening & Safety MMMP or 50423171 Electricity MMMP, 50423174 Detricity and the safety MMMP or 50423171 Electricity MMMP, 50423174 Mech Fastening & Safety MMMP or 50423171 Electricity and the safety MMMP and (50423174 Mech Fastening & Safety MMMP or 50423174 Electricity and the safety MMMP and (50423174 Safety Safety MMMP and (50423174 Safety MMMP and (50423174 Safety MMMP and (50423174 Safety MMMP and (50423174 Safety Sa

POWER SYSTEMS AND VARIABLE SPEED DRIVES FOR IE...provides opportunity for students to learn about power systems and variable speed drives (VSD's). Topics include electricity, electronics, power transmissions, motor operations, AC and DC motor drives, servo and stepper drives, peripherals and communication. Will also explore closed loop control, feedback devices, and drive maintenance and the troubleshooting of VSD's. CONDITION: 504131 Industrial Electrician Apprentice or 504611 Maintenance Technician Apprentice requirements met

POWER TRANSMISSION DRIVES FOR MMMP...examines drive transmission systems and their applications, including gear drives, chain drives, belt drives, and conveyor systems. Apprentices will compare different types of gear drive systems and components, chain drive systems and components, belt drive systems and components, as well as different types of conveyors and their related components. Apprentices will develop skills necessary for inspecting, troubleshooting, removing, selecting, and their related components. Apprentices will develop skills necessary for inspecting, troubleshooting, removing, selecting, installing components used in the various mechanical drive transmission systems. PREREQS: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 5042372 Adhesives & Sealants MMMP trades)

POWER TRANSMISSION PRINCIPLES FOR MMMP...examines the physics and principles of simple machines and how those principles are used in the development of the skills necessary for inspecting mechanical power transmission systems and troubleshooting mechanical drive systems. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP; 50423717 Electricity MMMP; 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PRECISION MEASUREMENTS FOR MMMP...develops apprentice skills in precision measurement. Types of measuring instruments will be compared and then measuring skills using tapes, steel rules, micrometers, calipers, indicators, and gauges will be developed. CONDITION: 504231 MillwrightApprentice or 504641 Maintenance Technician Apprentice requirements met

PREVENTIVE AND PREDICTIVE MAINTENANCE FOR MMMP...examines both preventive and predictive maintenance concepts as they apply to millwright work processes and machine maintenance including witoration and lubrication analysis. Apprentices will develop skills related to assessing machine conditions and faults based on both preventative and predictive maintenance. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423712 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

PRINT READING FOR MMMP...explores reading prints commonly used by millwrights and machine maintenance workers. Course competencies include comparing types of prints, interpreting structural drawings, identifying parts from prints, and developing apprentice sketching drawing skills. CONDITION: 504231 Millwright Apprentice or 504641 Maintenance Technician Apprentice requirements met

PUMPS FOR MMMP...compares different pump types including centrifugal, diaphragm, gear, vane and their applications. Apprentices will complete a field inspection of pumps and learn how to troubleshoot, remove, overhaul, and install and perform preventative maintenance on pumps. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

RIGGING FOR MMMP...compare types of rigging equipment and uses; determine safe loads, rig and crib loads, move a load with cranes and hoitsi, including signaling. Also cover usage and the safety of ladders and scaffolding. PREREOS: 504423170 Math for MMMP, 50423713 Precision Measure MMMP; 50423717 Electricity MMMP; 60423717 Print Read MMMP and (50423404 MechI Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

SAFETY AND PRINT READING FOR IE...acquaints the apprentice with the interpretation of "prints" (blueprints) and other engineering and manufacturing documentation. The primary focus of the course will be on the basics of prints and how they are used to convey information to technicians. Application of electrical prints from industrial settings will be studied. CONDITION: 504131 Industrial Electrician Apprentice or 504641 Maintenance Technician Apprentice requirements met

SHEET METAL AND STRUCTURAL STEEL FOR MMMP...compares types of sheet metal and tools used by the trade. Apprentices will develop skills related to fabricating sheet metal and structural steel, including layout, bending and forming, as well as erecting structural steel. PREREQUISITES: S04423170 Math for MMMP, 50423713 Precision Measure MMMP; 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

WELDING FOR MMMP...compares common welding processes and develops apprentice skills related to welding, cutting, heating and using oxy-gas. Welding with arc, MIG and TIG is included, along with common cutting and joining techniques. PREREQUISITES: 504423170 Math for MMMP, 50423713 Precision Measure MMMP, 50423717 Electricity MMMP, 50423711 Print Read MMMP and (50423740 Mechanical Fastening & Safety MMMP or 50423712 Fasteners MMMP Trades and 50423723 Adhesives & Sealants MMMP Trades)

MANUFACTURING ENGINEERING TECHNOLOGY

Program Number 10-623-3 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Manufacturing Engineering Technology program prepares students to work in the manufacturing sector assisting engineering and management in the design and development of new products and in the improvement of production processes.

PROGRAM OUTCOMES

- Characterize how lean culture and tools can help an organization achieve operational excellence.
- Apply proper engineering principles in design.
- Utilize computer aided applications in design and manufacture of products and processes.
- Demonstrate the principles of material selection and application.
- · Apply automation principles for design and control of manufacturing processes.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No | . Class Title Cred | it(s) |
|------------|---------------------------------------|-------|
| | Term 1 | |
| 10664110 | Introduction to Mechatronics | 2 |
| 10804113 | College Technical Math 1A OR 10804198 | 3 |
| | Calculus 1* (4 cr) | |
| 10620105 | DC Fundamentals | 2 |
| 10196189 | Team Building and Problem Solving | 3 |
| 10620168 | Robotics Introduction | 2 |
| 10606108 | SolidWorks 1-Parametric Modeling | 2 |
| 10620124 | Microcontroller Programming | 1 |

Term 2

106 106

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106 108

| 64100 | Introduction to Industrial Control Systems | 2 |
|--------|--------------------------------------------|----|
| 64120 | Industrial Internet of Things | 2 |
| 20110 | AC Fundamentals | 2 |
| 20155 | Hydraulics and Pneumatics | 3 |
| 20138 | Programmable Controllers - Allen Bradley | 3 |
| 801195 | Written Communications | 3 |
| | | 15 |

Term 3

| 10623118 | Lean Manufacturing Overview | 3 |
|----------|------------------------------------------|----|
| 10196188 | Project Management | 3 |
| 10620140 | Programmable Controllers - Allen Bradley | 2 |
| | Advanced | |
| 10623101 | Quality Concepts | 3 |
| 10801196 | Oral/Interpersonal Communication | 3 |
| 10606104 | Manufacturing Processes and Materials | 2 |
| 10420107 | Machining Applications | 1 |
| | | 17 |

Term 4

| 10623110 | Lean Six Sigma - Measure and Analyze | 4 |
|----------|-------------------------------------------|----|
| 10462111 | Maintenance Print Reading OR 10623123 | 2 |
| | Blueprint Reading and Metrology (3 cr) OF | 2 |
| | 10606106 Tolerancing and GD&T (3 cr) | |
| 10623170 | Manufacturing Cost Analysis | 3 |
| 10620171 | Robotics Advanced | 2 |
| 10809195 | Economics OR 10809196 Introduction to | 3 |
| | Sociology (3 cr) | |
| 10809198 | Introduction to Psychology | 3 |
| | | 17 |

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TOTAL 64

*Calculus 1 is designed for students planning to transition to a 4-year college following LTC program completion.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

2023-24

AC FUNDAMENTALS...prepares student to analyze electrical circuits using AC math, analyze AC waveforms, measure and analyze AC power, analyze capacitors and inductors in DC and AC circuits, analyze AC circuits containing reactance and calculate resonance, apply the elements and properties of basic measuring circuits, and describe transformer characteristics. PREREQ: 10620105 DC Funds or 10660105 DC Funds

COLLEGE TECHNICAL MATHEMATICS 1A...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. PRERQUISITES: 10834109 Pre-Algebra or 10804107 College Mathematics or 31457318 Ind Mtnc Trades Math or 31420320 Machine Tool Math or Math placement assessment equivalent.

DC FUNDAMENTALS...prepares the student to convert values to scientific and engineering notations; calculate math quantities; describe basic atomic theory; identify basic electrical terms; use established symbols standards; describe DC voltage characteristics and current sources and electrical resistance; measure and analyze electrical quantities in series and parallel circuits; and desolder/solder single lead components. COREQUISITE: 10804113 College Tech Math 1A or 10804115 College Tech Math 1 or 10804198 Calculus 1 or 10804118 Interm Algebra with Apps

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

HYDRAULICS AND PNEUMATICS...prepares learner to identify hydraulic and pneumatic component symbols and terms, adjust a pressure relief valve, analyze the operation of a pilot operated relief valve; analyze Pascal's law; evaluate flow, velocity, work and power in industrial hydraulic and pneumatic circuits.; analyze meter-in, meterout, and bypass flow control circuits; identify basic hydraulic and pneumatic control valves; and assemble hydraulic circuits. COREQUISITES: 10804113 College Tech Math 1A

INDUSTRIAL INTERNET OF THINGS...introduces learners to theoretical and practical topics of the Industrial Internet of Things (IIoT). The learner investigates the range of sensor and actuator devices available, ways in which they communicate and compute, methods for getting information to and from IIoT-enabled devices, and ways of visualizing and processing data acquired from the IIoT. Upon completion, learners will utilize hardware and software to construct a sensor network within an existing system and utilize industry standard tools to visual the data captured.

INTRODUCTION TO INDUSTRIAL CONTROL SYSTEMS...introduces learners to basic concepts of industrial computer-controlled systems. The learner explores various types of programming using robots and PLCs and participates in lab experiments designed to introduce programming principles, electronic inputs and outputs (analog and digital), communication between system components including Ethernet protocols. Upon completion of the course, learners will be able to explain how the control processes are utilized to automate manufacturing facilities.

INTRODUCTION TO MECHATRONICS...introduces learners to microprocessor controlled electromechanical systems. The learner examines how individual components work, and how they are integrated into simple systems. Upon completion of the course, learners will understand what technicians do in the workplace and how industry utilizes Mechatronics in advanced manufacturing.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

LEAN MANUFACTURING OVERVIEW...expands learner's ability to develop skills to prioritize and sequence work, execute work plans, implement controls, and create and analyze performance evaluations. Allows student to explore the execution of quality initiatives and continuous improvement plans in addition to the control and handling of inventories.

LEAN SIX SIGMA - MEASURE AND ANALYZE...provides the student with skills and tools to collect and analyze data to solve problems and improve processes within an organization. Various techniques for process mapping are explored including SIPOC, FMEA, VSM, standard work sheets, and spaghetti diagrams. Statistical tools are explored including probability, confidence intervals, measurement systems analysis, hypothesis testing, and TAKT time analysis to create and implement a data collection plan.

MACHINING APPLICATIONS...takes a hands-on approach to the subject of machining processes including milling, turning and drilling. Students will use the machines common to a machine shop to build a functional gearbox during their time in this course. The use of calipers, micrometers and coordinate measuring machines will also be used to verify the work. COREQUISITE: 10606104 Manufacturing Processes and Materials MAINTENANCE PRINT READING...prepares the learner to read prints; make isometric sketches; interpret orthographic projection drawings, to include sections, surface finishes, and tolerancing. The course when delivered in the evening is self-paced, openentry/exit, and designed for individualized student needs.

MANUFACTURING COST ANALYSIS...covers cost estimating and financial analysis techniques employed in typical manufacturing and processing industries. Topics include product material and labor costing, justification of expenditures and capital equipment, make vs buy analysis, and inventory costs. Also provides an understanding of soft costs, budgeting, and understanding cost behavior.

MANUFACTURING PROCESSES AND MATERIALS...introduces the learner to machining processes including, milling, turning, and drilling. The learner will also learn how to properly use and read dial and digital micrometers; dial, digital and vernier calipers. In addition, the student will also explore metallurgy, computer-age machining and methods in advanced manufacturing technology.

MICROCONTROLLER PROGRAMMING...introduces the student to concepts in basic digital programming, programming logic, electronic components, and Digital and Analog I/O.

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PROGRAMMABLE CONTROLLERS - ALLEN BRADLEY...prepares the student to understand basic PLC structure and terminology; learn to create and troubleshoot basic PLC programs using the RSLOGIX 500 software and the RSLINX communication software; become familiar with communicating with programming SLC-500 PLCs. This course is highly computer based.

PROGRAMMABLE CONTROLLERS - ALLEN BRADLEY ADVANCED.. prepares the student to develop applications utilizing subroutine instructions, analog modules; gain a basic understanding of creating and troubleshooting programs using the ControlLogix, Studio5000 software. This course is highly computer based. PREREQUISITE: 10620138 Prog Chtrls/AB. This class qualifies for 48 hours of Continuing Education Units (CEUs) for Electricians.

PROJECT MANAGEMENT...introduces the learner to explore the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain-related functions. This course addresses three main topics: aligning resources with the strategic plan, configuring and integrating operating processes to support the strategic plan, and implementing change.

QUALITY CONCEPTS...provides an overview of quality systems, methods and analysis. Basic quality philosophies such as Deming's principles, continuous improvement, quality costs, supplier relations and inspection theory will be presented. The components of a basic quality system compatible with ISO 9000 and Six Sigma will be explored. Techniques such as pareto, trend analysis, histograms, cause and effect diagrams and corrective/preventive action techniques will be applied to the data in order to address problems and improve processes.

ROBOTICS ADVANCED...introduces students to adv robot programming commands to include use of Fanuc IRvision on both Fanuc Robotic arm and Delta Robots. Once a student completes both Robotic Introduction and Robotics Advanced they will be well prepared to take the FanucCertification test by NOCTI. PREREQ: 10620168 Robotics Introduction. This class qualifies for 48 hrs of Continuing Education Units (CEUs) for Electricians.

ROBOTICS INTRODUCTION...introduces the student to robotic axes, movement control, navigating the teach pendant, robotic frames, basic programming commands such as conditional branching, wait and call instructions. This class qualifies for 48 hours of Continuing Education Units (CEUs) for Electricians.

SOLIDWORKS 1-PARAMETRIC MODELING...introduces the students to the concepts and commands of parametric solid modeling. Students create sketches and add relationships to the sketch segments, extrude the sketches to create models, and add features such as fillets, cut extrude, chamfers, holes, draft, shell, lofts and sweeps. Emphasis is placed on the design intent of the parametric solid models.

TEAMBUILDING AND PROBLEM SOLVING...applies the skills and tools necessary to facilitate problem solving in a team environment. Each learner will demonstrate the application of the benefits and challenges of group work, necessary roles in a team, stages of team development, different approaches to problem solving, consensus, a systematic process of problem definition, data acquisition, analysis, developing alternative solutions, solution implementation, and evaluation.

WRITTEN COMMUNICATION...teaches writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



MANUFACTURING IT

Program Number 10-631-4 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

This program will prepare the learner to be employed at the technician level or higher to work on the technology that is at the intersection of I.T. and Manufacturing. The program will train students on industrial computer networks, computer operating systems and servers, programmable logic controllers, and other networked manufacturing operations technology. Students will learn how to troubleshoot and integrate these technologies and help bridge a skills gap in manufacturing environments.

PROGRAM OUTCOMES

- Integrate IT systems with manufacturing equipment.
- Utilize network operating systems.
- Maintain PC and device support and security.
- Perform programming and configuration of Programmable Logic Controllers (PLCs)
- Implement computer networks to integrate manufacturing systems.
- · Develop integration projects.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

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Term 2

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Catalog No. Class Title

| 10150173 | Server Administration 1 | 3 |
|----------|------------------------------------------|----|
| 10150176 | Networking 2 | 3 |
| 10150131 | Linux | 3 |
| 10620138 | Programmable Controllers - Allen Bradley | 3 |
| 10809196 | Introduction to Sociology OR 10809122 | 3 |
| | Introduction to American Government OR | |
| | 10809166 Introduction to Ethics | |
| | | 15 |

Term 3

| 10620115 | Electrical Math Applications | 2 |
|----------|------------------------------------------|----|
| 10620105 | DC Fundamentals | 2 |
| 10150163 | Networking 3 | 3 |
| 10620140 | Programmable Controllers - Allen Bradley | 2 |
| | Advanced | |
| 10620194 | Touch Screen Applications | 2 |
| 10620198 | Industrial Networks | 2 |
| 10150168 | Network Design and Documentation | 3 |
| | | 16 |

Term 4

| 10150164 | Mobile Devices | 3 |
|----------|----------------------------------|----|
| | | • |
| 10620110 | AC Fundamentals | 2 |
| 10620122 | Industrial Wiring | 2 |
| 10664120 | Industrial Internet of Things | 2 |
| 10801196 | Oral/Interpersonal Communication | 3 |
| 10809198 | Introduction to Psychology | 3 |
| | | 15 |

TOTAL 61

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

AC FUNDAMENTALS...prepares the student to analyze electrical circuits using AC math, analyze AC waveforms, measure and analyze AC power, analyze capacitors and inductors in DC and AC circuits, analyze AC circuits containing reactance and calculate resonance, applythe elements and properties of basic measuring circuits, and describe transformer characteristics. PREREQUISITE: 10620105 DC Fundamentals

DC FUNDAMENTALS...prepares the student to convert values to scientific and engineering notations; calculate math quantities; describe basic atomic theory; identify basic electrical terms; use established symbols standards; describe DC voltage characteristics and current sources and electrical resistance; measure and analyze electrical quantities in series and parallel circuits; and desolder/solder single lead components. COREQUISITE: 10804113 College Tech Math 1 or 10804198 Calculus 1 or 10804118 Interm Algebra with Apps

ELECTRICAL MATH APPLICATIONS...prepares learners to solve percent and proportion problems, use the laws of exponents, convert values between measurement systems, apply geometric concepts, and apply trigonometric concepts to solve right triangles. Emphasis will be on the application of skills to technical problems.

INDUSTRIAL INTERNET OF THINGS...introduces learners to theoretical and practical topics of the Industrial Internet of Things (IIoT). The learner investigates the range of sensor and actuator devices available, ways in which they communicate and compute, methods for getting information to and from IIoT-enabled devices, and ways of visualizing and processing data acquired from the IIoT. Upon completion, learners will utilize hardware and software to construct a sensor network within an existing system and utilize industry standard tools to visual the data captured.

INDUSTRIAL NETWORKS...prepares the learner to configure, install and troubleshoot industrial communication networks. This course is highly computer based. COREQUISITES: 10620140 Programmable Controls AB Advanced. This class qualifies for 48 hours of Continuing Education Units (CEUs) for Electricians.

INDUSTRIAL WIRING...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits.

INFORMATION SECURITY PRINCIPLES...introduces the learner to Information Systems Security. Students will review and analyze the control and security concerns in the information systems environment; the security challenges created from the emergence of new technology and the changing internal and external environments; and the effect of legal, regulatory, and current security technology on policy development. Opportunity to earn TestOut Security Pro Certification.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

LINUX...is a hands-on course designed to provide the learner with the skills to install the Linux operating system, use its command-line and graphical user interfaces, manage system resources, and create scripts. The course will also introduce the learner to Linux system administration including the installation and administration of users, files, software, networking, and Internet and Intranet services.

MATH & LOGIC...will apply mathematical problem solving techniques. Topics will include symbolic logic, sets, algebra, Boolean algebra, and number bases. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

MOBILE DEVICES...are quickly becoming indispensable tools in the production environment. This course will introduce the learner to various industry mobile technologies used to promote better decision-making, reporting, and improve manufacturing performance. Some of the devices covered are tablets, smartphones, barcode printers and readers, and radio frequency identification (RFID) readers/writers. **NETWORK DESIGN/DOCUMENTATION**...is a lecture/hands-on course designed to introduce students to network design and documentation fundamentals. Topics include: needs analysis, hardware needs and analysis, network layout and design, and documenting a network. PREREQUISITE: 10150176 Networking 2

NETWORKING 1...is a lecture/hands-on course designed to introduce students to network fundamentals. Topics covered include: OSI Reference Model; LAN and WAN topologies; cabling systems; access methods; protocols; Internet working devices (e.g. hubs, bridges, routers, switches, etc.); and basic network design.

NETWORKING 2...provides the students with networking terminology, protocols, network standards, LAN's, WAN's, TCP/IP addressing, and routing. PREREQUISITE: 10150114 Networking 1

NETWORKING 3...introduces the student to switching technology, hardware and software firewalls, and virtual private networks (VPN). PREREQUISITE: 10150176 Networking 2

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PC SUPPORT...prepares you to be able to install, manage, repair, and troubleshoot PC hardware and Windows, Linux, and Mac operating systems. You will learn how to set up a new computer, identify system requirements, install or upgrade operating systems, manage external devices, troubleshoot common computer problems, and connect to a small home network. Opportunity to earn TestOut PC Pro Certification.

PROGRAMMABLE CONTROLLERS - ALLEN BRADLEY...prepares the student to understand basic PLC structure and terminology; learn to create and troubleshoot basic PLC programs using the RSLOGIX 500 software and the RSLINX communication software; become familiar with communicating with programming SLC-500 PLCs. This course is highly computer based.

PROGRAMMABLE CONTROLLERS - ALLEN BRADLEY ADVANCED... prepares the student to develop applications utilizing subroutine instructions, analog modules; gain a basic understanding of creating and troubleshooting programs using the ControlLogix, Studio5000 software. This course is highly computer based. PREREQUISITE: 10620138 Prog Cntrls/AB. This class qualifies for 48 hours of Continuing Education Units (CEUs) for Electricians.

SERVER ADMINISTRATION 1...is a hands-on course designed to introduce the learner to the installation and configuration of Windows Server servers. The student will learn how to install and configure servers, configure server roles and features, configure Hyper-V, deploy and configure core network services, install and administer Active Directory (AD), and create and manage Group Policy. PREREQUISITE: 10154124 Information Security Principles

TOUCH SCREEN APPLICATIONS...prepares the student to create, edit, and troubleshoot screens, objects and I/O related to the FactoryTalkME application. Students will create, edit and communicate with Allen-Bradley PLC programs for realtime control utilizing the touchscreen applications. This course is highly computer based. This class qualifies for 48 hours of Continuing Education Units (CEUs) for Electricians. COREQUISITES: 10620140 Programmable Controls AB Advanced

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent

MANUFACTURING MANAGEMENT

Program Number 10-623-5 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Manufacturing Management is a unique associate degree program designed by local industry to meet the needs of the workplace through a combination of supply chain, quality, lean, leadership, and supervisory skills. Graduates of this program are prepared to provide leadership in manufacturing and service industries.

PROGRAM OUTCOMES

- Plan the operations of a business across functional areas.
- · Organize resources to achieve the goals of the organization
- · Direct individuals and/or processess to meet organizational goals.
- Control business processes.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

| Catalog No. Class Title | | Credit(s) |
|-------------------------|--------------------------------|-----------|
| | Term 1 | |
| 10103121 | Excel - Level 1 | 1 |
| 10103191 | Word - Level 1 | 1 |
| 10182131 | Supply Chain Management | 3 |
| 10196189 | Teambuilding & Problem Solving | 3 |
| 10623118 | Lean Manufacturing Overview | 3 |
| 10801195 | Written Communication | 3 |
| | | 14 |
| | | |

Term 2

1

1

1

1

1

| 10804189 | Introductory Statistics | 3 |
|----------|--------------------------------------|----|
| 10196107 | Principles of Management | 3 |
| 10801196 | Oral/Interpersonal Communications OR | 3 |
| | 10801198 Speech (3 cr) | |
| 10116125 | Human Resource Employment Law | 3 |
| 10182110 | Negotiations | 3 |
| | | 15 |

Term 3

| 10101155 | Accounting for Professionals | 3 |
|----------|--------------------------------------|----|
| 10105128 | Personal Branding | 2 |
| 10449114 | Safety in the Workplace | 3 |
| 10196188 | Project Management | 3 |
| 10623101 | Quality Concepts | 3 |
| 10623110 | Lean Six Sigma - Measure and Analyze | 4 |
| | | 18 |

Term 4

| 0196129 | Portfolio Assessment - Manufacturing | 1 |
|---------|----------------------------------------|----|
| | Management | |
| 0809198 | Introduction to Psychology OR 10809188 | 3 |
| | Developmental Psychology (3 cr) | |
| 0623123 | Blueprint Reading and Metrology | 3 |
| 0623193 | ISO 9001 Internal Auditor | 3 |
| 0809195 | Economics | 3 |
| | | 13 |

TOTAL 60

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ACCOUNTING FOR PROFESSIONALS...is the study of the information that can be interpreted from financial statements. Students analyze financial statements and apply managerial accounting concepts in an accelerated format. PREREQUISITE: 10804123 Math w Business Applications or CONDITION: 101101 Paralegal program requirements met

BLUEPRINT READING AND METROLOGY...provides knowledge and skill in the understanding of quality measurement, quality measurement devices and their proper application. Quality measurement topics include precision, accuracy, control of variation, gage R/R, calibration techniques and blueprint/specification reading. The quality measurement devices portion of this course provides hands-on use of common measurement and test equipment.

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

HUMAN RESOURCES EMPLOYMENT LAW...applies the skills/tools necessary to effectively value and apply employees' abilities and needs to organization goals. Learners will demonstrate the legal application of the HR role as it impacts EEOC, writing job descriptions, recruitment, selection, conducting job interviews, orientation, developing policies/procedures, training, performance management, employee counseling/development, and effective use of compensation and benefit strategies. Learners will also learn the proper way to conduct a workplace investigation.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

ISO 9001 INTERNAL AUDITOR...is designed to introduce participants to the current ISO 9001 standard. The course is structured to provide a detailed review of the standards, how to document procedures, and how to perform audits. Students will practice preparation for and conducting audits in a local business. Successful completion of this course qualifies the student to receive the ISO 9001 Internal Auditor certificate (19-623-8).

LEAN MANUFACTURING OVERVIEW...expands the learner's ability to develop skills to prioritize and sequence work, execute work plans, implement controls, and create and analyze performance evaluations. It allows the student to explore the execution of quality initiatives and continuous improvement plans in addition to the control and handling of inventories.

LEAN SIX SIGMA - MEASURE AND ANALYZE...provides the student with skills and tools to collect and analyze data to solve problems and improve processes within an organization. Various techniques for process mapping are explored including SIPOC, FMEA, VSM, standard work sheets, and spaghetti diagrams. Statistical tools are explored including probability, confidence intervals, measurement systems analysis, hypothesis testing, and TAKT time analysis to create and implement a data collection plan.

NEGOTIATIONS...is an exciting introduction into negotiations where the following topics will be discussed: nature of negotiations, framing, strategy, integrated negotiations, distributed negotiations, communication, perception, bias, leverage, ethics, global negotiations, and managing difficult negotiations. It is a must course for students desiring to exceed in business.

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PERSONAL BRANDING...focuses on the importance of developing a strong brand identity for yourself as a professional. As a prospective employee, you are constantly selling yourself from how you talk, walk, dress, your facial expressions, and your body language; people are always forming impressions of you. In this course, you will develop a professional resume, cover letter, practice interview skills, and learn the role of social media in career development.

PORTFOLIO ASSESSMENT-MANUFACTURING MANAGEMENT... prepares the student to identify what they have learned throughout the program, write career goals, re-examine their resume, research and collect project samples of their achievements, and analyze their achievements within the college core abilities. PREREQUISITE: 10105128 Personal Branding

PRINCIPLES OF MANAGEMENT...will enable students to develop short and long range plans to effectively accomplish organizational goals. Through the use of terminology, exercises, and case studies, students will be able to give a critical appraisal of real life situations involving organizing, staffing, and motivating others. The student will also learn tools to aid in problem solving, value in diversity, and coping with change.

PROJECT MANAGEMENT...introduces the learner to explore the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain-related functions. This course addresses three main topics: aligning resources with the strategic plan, configuring and integrating operating processes to support the strategic plan, and implementing change.

QUALITY CONCEPTS...provides an overview of quality systems, methods and analysis. Basic quality philosophies such as Deming's principles, continuous improvement, quality costs, supplier relations and inspection theory will be presented. The components of a basic quality system compatible with ISO 9000 and Six Sigma will be explored. Techniques such as pareto, trend analysis, histograms, cause and effect diagrams and corrective/preventive action techniques will be applied to the data in order to address problemsand improve processes.

SAFETY IN THE WORKPLACE...applies the skills and tools necessary to provide a safe and secure work environment. Each learner will demonstrate the application of safety awareness, federal/state/local compliance, incident investigation and documentation, human relations techniques, safety orientation, inspections, and risk analysis, issues of workplace violence, substance abuse, and health hazards, first aid and CPR, fire and electrical safety, emergency preparedness, and liaison with external agencies.

SUPPLY CHAIN MANAGEMENT...has been developed to provide a basic understanding of the planning and control of materials into, through, and out of organizations. In addition, those who want to become certified by APICS need a fundamentals course to learn about the materialplanning and control system. This course will provide a basis for further study leading to certification.

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WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



PART-TIME •ONLINE MANUFACTURING MANAGEMENT

Program Number 10-623-5 Associate Degree in Applied Science

| ABOUT THE PROGRAM Manufacturing Management is a unique associate degree program designed by local industry to meet the needs of the workplace through a combination of supply chain, quality, lean, leadership, and supervisory skills. Graduates of | Ŭ | Term 1 (Fall 2023) | redit(s) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| this program are prepared to provide leadership in manufacturing and service industries. | 10809195 10804189 10196189 | Economics Introductory Statistics Teambuilding & Problem Solving | 3 3 3 |
| PROGRAM OUTCOMES Plan the operations of a business across functional areas. Organize resources to achieve the goals of the organization | 10103191 10182131 10103121 | Word - Level 1 Supply Chain Management Excel - Level 1 | 1 3 1 14 |
| Organize resources to achieve the goals of the organizational goals. Ontrol business processes. | 10000100 | Term 2 (Spring 2024) | |
| CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES LTC credits transfer to over 30 universities. For more information visit gotoltc. edu/future-students/transfer. | 10809198 10623193 10196107 10196188 | Introduction to Psychology ISO 9001 Internal Auditor Principles of Management Project Management | 3 3 3 3 |
| ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS | 10100100 | | 12 |
| Submit online application. Complete the online Student Success Questionnaire. Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, | 10801195 | Term 3 (Summer 2024) Written Communication | 3 3 |
| review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes. | 10182110 10101155 10623118 10105128 | Term 4 (Fall 2024) Negotiations Accounting for Professionals Lean Manufacturing Overview Personal Branding | 3 3 2 11 |
| FUTURE SEMESTER ENROLLMENT STEPS - Complete online Student Success Tutorial prior to registering for second semester. | 10623110 10623123 10623101 | Term 5 (Spring 2025) Lean Six Sigma - Measure and Analyze Blueprint Reading and Metrology Quality Concepts | 4 3 3 |
| APPROXIMATE COSTS \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit | 10116125 | Human Resource Employment Law | 3 13 |
| gotoltc.edu/financial-aid/tuition-and-fees for details. | 10801196 | Term 6 (Summer 2025) Oral/Interpersonal Communication | 3 3 |
| This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid. | 10449114 | Term 7 (Fall 2025) Safety in the Workplace | 3 |
| CONTACT LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu | 10196129 | Portfolio Assessment-Manufacturing Mng | 1 4 |
| | P | TOTA | L 60 |

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2023-24

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MECHANICAL DESIGN AND ENGINEERING TECHNOLOGY

Catalog No. Class Title

Program Number 10-606-1 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Mechanical design and engineering technicians help develop and test products, calculate strength and cost of materials, make drawings to scale, and work on prototypes and product improvement. Students work on acquiring high-level drafting skills and utilize a variety of Computer-Aided Drafting (CAD) software. They learn to construct and revise engineering working drawings and tooling drawings; research and apply information for parts and materials; and specify appropriate tolerances, materials, and other engineering data. Mechanical designers work on teams that focus on continuous improvement, Six Sigma initiatives, and lean manufacturing efforts.

PROGRAM OUTCOMES

- · Prepare detail and assembly drawings for documentation of mechanical components and products.
- · Create CAD geometry, parts and assemblies.
- · Design mechanical components and products.
- · Analyze mechanical engineering problems.
- · Select purchased parts.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

This program can also be completed by attending evenings.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

| | (5) |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Term 1 | |
| Mechanical Drafting Standards/Procedures | 1 |
| AutoCAD-2D Computer Aided Design | 2 |
| SolidWorks 1-Parametric Modeling | 2 |
| Product Design & Rapid Prototyping | 1 |
| Manufacturing Processes and Materials | 2 |
| Machining Applications | 1 |
| Excel - Level 1 | 1 |
| College Technical Math 1A OR 10804198 | 3 |
| Calculus 1* (4 cr) | |
| Oral/Interpersonal Communication | 3 |
| | Term 1 Mechanical Drafting Standards/Procedures AutoCAD-2D Computer Aided Design SolidWorks 1-Parametric Modeling Product Design & Rapid Prototyping Manufacturing Processes and Materials Machining Applications Excel - Level 1 College Technical Math 1A OR 10804198 Calculus 1* (4 cr) |

16

Cradit(a)

Torm 2

| 10606106 | Tolerancing and GD&T | 3 |
|----------|-----------------------------------|----|
| 10606134 | Statics | 4 |
| 10606109 | SolidWorks 2-Modeling/Details for | 2 |
| | Designers | |
| 10606110 | SolidWorks 3-Working Drawings for | 2 |
| | Designers | |
| 10606111 | SolidWorks-Advanced Modeling | 2 |
| 10806154 | General Physics 1 | 4 |
| | | 17 |

Term 3

106

106

106

106 106

106

104

| 06117 | Design of Machine Elements | 3 |
|-------|--------------------------------|----|
| 06118 | Kinematics | 3 |
| 06119 | Strength of Materials | 3 |
| 06120 | Reverse Engineering | 2 |
| 20130 | Mechanical Drive Systems | 3 |
| 20169 | Robotic Mechanical Maintenance | 1 |
| 44104 | HSM for SolidWorks | 1 |
| | | 16 |

Term 4

| 10606197 | Portfolio-Mechanical Design/Engineering | 1 |
|----------|-----------------------------------------|----|
| 10606190 | Design for Manufacture and Assembly | 2 |
| | (DFMA) | |
| 10606189 | Quality Systems | 2 |
| 10606198 | Engineering Technology Applications | 4 |
| 10801195 | Written Communication | 3 |
| 10809196 | Introduction to Sociology OR 10809195 | 3 |
| | Economics | |
| 10809198 | Introduction to Psychology | 3 |
| | | 18 |

TOTAL 67

*Students who plan to also achieve a Bachelor's degree are encouraged to take this transferable course.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

AUTOCAD-2D COMPUTER AIDED DESIGN...provides the learner with the skills to utilize AutoCAD's drawing editor, viewing commands; apply coordinate entry methods, AutoCAD file commands; utilize draw commands, modify commands; create and edit text, prints & plots; apply geometric construction to solve a drawing problem; utilize selection sets, duplicating modify commands, layers & objects properties, blocks; apply principles of orthographic and multi view projection.

COLLEGE TECHNICAL MATHEMATICS 1A...prepares student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis on the application of skills to technical problems. COREQUISITE: Math placement assessment or equivalent

DESIGN FOR MANUFACTURE AND ASSEMBLY (DFMA)...introduces learners to and will apply the concept of Design for Manufacturing and Assembly (DFMA) to an industrial assembly. DFMA is an engineering methodology that focuses on reducing time-to-market and the total production cost by prioritizing both the ease of manufacture for the product's parts and the simplified assembly of those parts into the final product. PREREQUISITES: 10606160 Mfg Processes & Applctns or 10606104 Mfg Processes & Materials and 10420103 Machining Applctns and 10606102 Product Design & Rapid Prototyping and 10606111 SolidWorks 3-Working Drawings for Designers and 10606106 Tolerancing and GD&T

DESIGN OF MACHINE ELEMENTS...introduces student to the various components found on machinery, including shafts, bearings, power transmissions, gears, and selection of standard machine elements from manufacturers' catalogs, and use of spreadsheet solutions. PREREQ: 10606130 Strength of Materials or COREQ: 10606119 Strength of Materials

ENGINEERING TECHNOLOGY APPLICATIONS...applies the knowledge and skills gained throughout the Mechanical Design and Engineering Technology program. This is a capstone course in which the learner will create a project portfolio that will showcase a full set of working drawings to produce an industrial assembly and all the design calculations to ensure function and lifecycle requirements. The learner will create a physical, working prototype in the MDET Fab Lab as part of this capstone project. PREREQUISITES: 10606117 Design of Machine Elements, 10606106 Tolerancing and GD&T

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

GENERAL PHYSICS 1...presents the applications and theory of basic physics principles. This course emphasizes problem-solving, laboratory investigation, and applications. Topics include unit conversions and analysis, vectors, translational and rotational kinematics, translational and rotational dynamics, heat and temperature, and harmonic motion and waves. PREREQUISITE: 10804113 College Tech Math 1A or Math placement assessment or equivalent

HSM FOR SOLIDWORKS...CAD software that is often used for mechanical design. HSM for SolidWorks is an add-on to SolidWorks for CAM processes, creating G&M code programs from the solid model. You will explore the SolidWorks interface and create face milling, end milling, and hole-producing tool paths for CNC machining centers. You will also be creating turning, boring, threading, and hole-producing tool paths for CNC turning centers.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO SOCIOLOGY...introduces students to basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

KINEMATICS...provides the student with the skills necessary to determine the motions required to accomplish the objective of a machine, calculate velocities and design gears. PREREQUISITE: 10804115 College Technical Math 1 or 10804113 College Technical Math 1A or 10804198 Calculus 1 or 10804118 Interm Algebra with Apps

MACHINING APPLICATIONS...takes a hands-on approach to the subject of machining processes including milling, turning and drilling. Students will use the machines common to a machine shop to build a functional gearbox during their time in this course. The use of calipers, micrometers and coordinate measuring machines will also be used to verify the work. COREQUISITE: 10606104 Manufacturing Processes and Materials

MANUFACTURING PROCESSES AND MATERIALS...introduces the learner to machining processes including, milling, turning, and drilling. The learner will also learn how to properly use and read dial and digital micrometers; dial, digital and vernier calipers. In addition, the student will also explore metallurgy, computer-age machining and methods in advanced manufacturing technology.

MECHANICAL DRAFTING STANDARDS & PROCEDURES...develops skills in creating engineering sketches through application of drafting standards and procedures. Principles covered include view selection, orthographic projection, section and auxiliary views, and their utilization in working drawings. Need for engineering sketching is reinforced through a hands-on project requiring measurement, inspection and sketching of orthographic views. MECHANICAL DRIVE SYSTEMS...prepares the learner to use tools and fasteners safely; identify belt and chain drive components; install and adjust belt and chain drives; apply bearing and lubrication information; perform coupling alignment using straight edge, feeler gauge, and dial indicator and laser methods; identify various gear drives; calculate gear ratios; and analyze first-, second-, and third-class levers.

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PORTFOLIO-MECHANICAL DESIGN/ENGINEERING...acquaints students with the process and the development of a plan for securing employment in the mechanical design and engineering field. Includes letters of introduction, resume design, personal data sheets, portfolio design and job interview techniques. Students will create profiles on the college job search site and LinkedIn. PREREQUISITE: 10606110 SolidWorks 3-Working Drawings for Designers and 1606117 Design of Machine Elements

PRODUCT DESIGN AND RAPID PROTOTYPING...introduces students to rapid prototyping methods and the operation of various types of rapid prototyping equipment available in the Mechanical Design & Engineering Technology program's Fab Lab. Research and use 3D printers including FDM and related material usage, will be explored through handson lab activities to develop a working prototype. COREQ: 10606108 SolidWorks 1-Param Mod

QUALITY SYSTEMS...introduces the learner to the theories and concepts of Statistical Process Control, Six Sigma and Lean Manufacturing. PREREQUISITES: 10804115 College Tech Math 1 or 10804113 College Tech Math 1A

REVERSE ENGINEERING...prepares students to take an existing assembly, take it apart, measure it using micrometers, calipers and coordinate measuring machines. Using the measurements, students will then create a full set of working drawings including appropriate tolerances. Students will also be introduced to a reverse engineering scanner system and software, used for reverse engineering applications in the SolidWorks 3D modeling environment. PREREQUISITES: 10606111 SolidWorks-Advanced Modeling and 10606104 Manufacturing Processes and Materials

ROBOTIC MECHANICAL MAINTENANCE...introduces the students to the robot teach pendant and robot jogging. Students will be taught to replace servo motors, recalibrate the robot and back up robot software and programs.

SOLIDWORKS 1-PARAMETRIC MODELING...introduces the students to the concepts and commands of parametric solid modeling. Students create sketches and add relationships to the sketch segments, extrude the sketches to create models, and add features such as fillets, cut extrude, chamfers, holes, draft, shell, lofts and sweeps. Emphasis is placed on the design intent of the parametric solid models.

SOLIDWORKS 2-MODELING/DETAILS FOR DESIGNERS...is the second course in the study of parametric solid modeling using SolidWorks as it applies to the mechanical design field. Students extract 2D documentation from the 3D models and add details to the drawings. Advanced software applications are explored including assembly modeling techniques, configurations, detail drawing generation, surfaces, multibody parts, additional work with sweeps and lofts, and preparation for the CSWA (Certified SolidWorks Associate) exam. PREREQUISITES: 10606100 Mechanical Drafting Standards/Procedures and 10606108 SolidWorks 1 - Parametric Modeling

SOLIDWORKS 3-WORKING DRAWINGS FOR DESIGNERS...focuses on the creation of complete sets of engineering detail and assembly drawings including the accompanying engineering documentation, bill of materials and the application of geometric dimensioning and tolerancing standards. Emphasis is placed on product design analysis, tolerance stack ups and the application of GD&T. COREQUISITE: 10606109 SolidWorks 2-Modeling/Details for Designers

SOLIDWORKS-ADVANCED MODELING...introduces students to advanced modeling and design techniques for part design in sheet metal, weldments, castings and mold design. COREQUISITES: 10606110 SolidWorks 3-Working Drawings for Designers and 10606106 Tolerancing and GD&T

STATICS...covers the study of forces on and in structures that are at rest. Forces, vectors, resultants, moments, couples, equilibrium, free-body diagrams, friction, centroids, and centers of gravity, and moments of inertia are covered. COREQUISITE: 10804115 College Technical Math 1 or 10804113 College Technical Math 1 A or10804198 Calculus 1 or 10804118 Interm Algebra with Apps

STRENGTH OF MATERIALS...provides the learner with the skills to identify and calculate centers of gravity, moments of inertia, and stresses induced in force-bearing elements for the purpose of sizing the material in that element, specifically studying shear, axial, bending, torsional, and combined stresses. PREREQUISITE: 10606134 Statics

TOLERENCING AND GD&T...provides the learner with the skills to apply and interpret tolerancing standards for both rectangular and geometric tolerancing (ASME 14.5M-2018) on part drawings, including form, profile, orientation, runout, and positional tolerances. Additionally the learning will design mating parts and tolerance stack ups with and without GD&T.

WRITTEN COMMUNICATION...teaches writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills required for this course. Also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent

MECHATRONICS TECHNICIAN • **APPRENTICE**

Program Number 50-620-1 5-Year Contract Work Hours (including related instruction): 10,000 Related Instruction: 864 hours • Night School: 8 hours

ABOUT APPRENTICESHIP Catalog No. Class Title Credit(s) Apprenticeships are employer-sponsored training programs. You must have a contract Term 1 50620701 Trades Math Review for Mechatronics 1 50620703 DC Electricity for Mechatronics 1 50620704 AC Electricity for Mechatronics 1 50620706 **Electrical Codes for Mechatronics** 1 4 Term 2 50620707 Welding Basics for Mechatronics 1 50620702 Mechatronics Principles 2 50620710 Power Transmission Systems for 1 **Mechatronics** 4 Term 3 50620708 2 Fluid Power Systems for Mechatronics 50620705 Motors & Motor Control for Mechatronics 2 4 Term 4 50620711 Machining Concepts for Mechatronics 2 50620712 Introduction to PLC's 2 4 Term 5 50620714 HMI Technologies & PLC Applications for 2 Mechatronics 50620715 Introduction to Robotic Systems for 2 Mechatronics 4 Term 6 50620716 Introduction to Robotic Integration 3 50620709 Servos and Drives for Mechatronics 1 4 **TOTAL 24**

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with the Apprenticeship Office for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

2023-24

before being invited to school. A special application process is used for these programs. Please contact the Apprenticeship Office for the proper forms. Apprenticeship means you earn while you learn. If you want a career in a skilled trade, apprenticeship is the best way to get there. You'll combine on-the-job training with on-campus learning-you'll have the best of both worlds when it comes to learning the skills you need to get ahead. And even better, you'll earn a paycheck while you learn those skills.

ABOUT THE CAREER

This occupation requires combined knowledge of electrical, electronic and mechanical systems used in industrial plants. Workers frequently support automation and robotic technologies. Work processes include installing, repairing, and maintaining equipment/ devices. Troubleshooting systems involved in manufacturing and process control are critical requirements for workers in these occupations. Workers typically operate and debug industrial computer and communication systems including PLC's, PC's, and HMI technologies. Workers machine metal and other materials; fabricate parts and weld/join components. Documenting work performed, maintaining accurate records, and working in a collaborative environment are critical interpersonal skills. Employees in some, but not all plants, support facilities, utilities and grounds.

INDUSTRIAL APPRENTICE APPLICATION REQUIREMENTS

- · Determined by employer
- Wisconsin Apprentice Contract

PROGRAM OUTCOMES

- · Perform work safely.
- · Install mechanical equipment.
- Install electrical equipment.
- · Maintain mechanical equipment.
- · Troubleshoot mechatronic systems.
- Operate machine shop tools and machines.
- Weld and fabricate parts.
- Maintain automation systems.
- Modify devices and systems.
- Maintain documents and records.
- · Local options and work processes.

APPROXIMATE COSTS

Contact the LTC Apprenticeship Office or visit www.gotoltc.edu/apprenticeship for detailed information.

SPECIAL NOTE

You must have a sponsoring employer and contract before attending school.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/futurestudents/transfer.

AC ELECTRICITY FOR MECHATRONICS...is designed to introduce the mechatronic technician apprentice to the basic concepts of alternating current. Emphasis is placed on circuit analysis and the problem-solving skills necessary for the maintenance of mechatronic systems and manufacturing equipment. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

DC ELECTRICITY FOR MECHATRONICS...introduces the fundamental concepts and computations related to DC electricity. Emphasis is placed on circuit analysis and the problem-solving skills necessary for the maintenance of mechatronic systems and manufacturing equipment. Competencies related to metering and safe use of measuring devices are included. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

ELECTRICAL CODES FOR MECHATRONICS...examines the National Electric Code and applies information to work practices involving mechatronic systems. Terminology needed to communicate and coordinate electrical work with other trades will be explored. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

FLUID POWER SYSTEMS FOR MECHATRONICS...include inspecting, testing, servicing, and troubleshooting hydraulic, pneumatic, compressed air, and vacuum systems. Apprentices will review safety procedures for various common maintenance tasks. CONDITION: 506201 Mechatronics Technician Apprentice program reqs met

HMI TECHNOLOGIES AND PLC APPS FOR MECHATRONICS...examines human machine interface devices, software and technologies for mechatronic systems. Apprentices will work in a lab/shop/training center setting to create touchscreens, setup networks, and configure systems. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

INTRO TO PROGRAMMABLE LOGIC CONTROLLERS...is designed to teach the fundamentals of programmable logic controller and its programming software. The course will introduce terminology, concepts, schematic reading and basic programming. Technologies and PLC use in manufacturing and mechatronic systems will be emphasized. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

INTRO TO ROBOTIC SYSTEMS FOR MECHATRONICS...introduces the apprentice to the robot teach pendant and methods of robot jogging. Learners will be taught to replace servo motors, re-master the robot, and back up robot software and programs. Maintenance, servicing and safety will be emphasized. Cable management systems will be examined. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

INTRODUCTION TO ROBOTIC INTEGRATION...explores offsets, vision systems and system integration using robotic simulation and capstone project. The project will tie everything learned during their apprenticeship together – safety, machine integration, vision systems, CNC, machine applications for robotics, troubleshooting, and work documentation. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

MACHINING CONCEPTS FOR MECHATRONICS...introduces cutting, drilling, lathes, and milling operations to apprentices in mechatronics. Course topics also include work holding devices, measuring tools and measurement, safety, machine guards, tooling, print reading, and speeds & feeds. Math skills will be applied to machining related work practices. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

MECHATRONIC PRINCIPLES... will examine both introductory mechanical & electrical concepts as a foundation for future coursework and on-the-job learning. Troubleshooting principles associated with mechatronics will also be introduced. Apprentices will explore safety, rigging, measurement, mechanical principles, electrical principles, mechanisms, metallurgy, and troubleshooting. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

MOTOR AND MOTOR CONTROL FOR MECHATRONICS...examines the fundamentals of electric motors and motor control. Apprentices will learn to recognize and draw basic symbols, use the language of motor control, and apply these in industry formats. Apprentices will also learn to draw and read ladder and wiring diagrams, and be introduced to the logic used in motor control. Learners will apply this logic to correctly interpret, install, service, and wire control circuits. Wiring of panels, machines, and systems will also be examined. CONDITION:506201 Mechatronics Technician Apprentice program requirements met

POWER TRANSMISSION SYSTEMS FOR MECHATRONICS...includes examining mechanical power transmission systems and components. Belts, chain drives, gears and gear drives, couplings, and clutches and brakes will be examined. Apprentices will develop skills inspecting, installing, and maintaining power transmission systems and troubleshooting failures. Apprentices will also learn about safety, documenting work performed, communicating the status of work, and working collaboratively. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

SERVOS AND DRIVES FOR MECHATRONICS...introduces concepts, terminology, and safety associated with drives and servos used in industry and manufacturing. Course is designed to give the apprentice the knowledge required to program, service and maintain variable frequency drives and related equipment. Course learning outcomes include setting up and programming drives in a lab, shop or training center setting. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met

TRADE MATH REVIEW FOR MECHATRONICS...includes building skills working with fractions, decimals, formulas and ratios used by the trade. Measurement, tolerances and interpreting trade related information will help apply math concepts to industrial and manufacturing work processes. Basic algebra, geometry and trigonometry will be applied to job duties and tasks. Converting between US and metric units is also included. Provides a foundation for mechanical and electrical problem-solving involving math. CONDITION: 506201 Mechatronics Technician Apprentice program reqs met

WELDING BASICS FOR MECHATRONICS...compares common welding processes and develops apprentice skills related to welding, cutting, heating and using oxy-gas. Welding with arc and MIG will help develop competency working with metal. Additional course learning outcomes may include common cutting and joining techniques associated with applicable trade work processes. CONDITION: 506201 Mechatronics Technician Apprentice program requirements met



MEDICAL ASSISTANT

Program Number 31-509-1 Technical Diploma • Two Terms (30 weeks)

Catalog No. Class Title

| ABOUT THE PROGRAM | ABO | UT TI | HE P | ROGI | RAM |
|-------------------|-----|-------|------|------|-----|
|-------------------|-----|-------|------|------|-----|

The Medical Assistant program prepares individuals to assist physicians in their offices or other medical settings. Before you see your physician, during an office visit, it is very likely that you interact with a Medical Assistant first. Medical Assistants serve an important role on the healthcare team by providing a wide variety of clinical, administrative, and laboratory skills. The Medical Assistant is responsible for medical and surgical asepsis, taking vital signs, assisting the physician with examinations and surgery, administering EKGs and administering medications. The business/administrative duties include patient reception, appointment making, record keeping, filing, bookkeeping, insurance handling, typing medical correspondence and transcription and electronic medical record applications. Laboratory functions include specimen collection, performance of basic laboratory tests and microscopic work. If you want a career that places you at the heart of healthcare, medical assisting may be just what you are looking for. This is a blended program (online and face-to-face components).

PROGRAM OUTCOMES

- · Perform medical office administrative functions.
- Provide patient care in accordance with regulations, policies, laws, and patient rights.
- Perform medical laboratory procedures.
- · Demonstrate professionalism in a health care setting.
- Demonstrate safety and emergency practices in a health care setting.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

Medical Assistant graduates may bridge into the evening Licensed Practical Nursing program (LPN) by becoming a Certified Medical Assistant, having 3,000 hours worked in the field, and meeting all pre-regs for the PN program.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Read and acknowledge understanding of the Medical Assistant Program Handbook.
 Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study, discuss the results of the Student Success Questionnaire, review and submit signed program handbook signature page.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

- The Medical Assistant program is accredited by the Accrediting Bureau of Health Education Schools (ABHES).
- CPR and First Aid certification must be completed before the start of Practicum and must be current throughout.
- To complete the clinical portion of this program, site specific health and immunization documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| 0 | · · | <i>,</i> |
|----------|---------------------------------------------|----------|
| | Term 1 | |
| 31501302 | Medical Terminology | 3 |
| 31501304 | Culture of Healthcare | 2 |
| 31501307 | Digital Literacy for Healthcare | 2 |
| 31509301 | Medical Assistant Administrative Procedures | 2 |
| 31509302 | Human Body in Health & Disease | 3 |
| 31509303 | Medical Assistant Laboratory Procedures 1 | 2 |
| 31509304 | Medical Assistant Clinical Procedures 1 | 4 |
| | 1 | 8 |
| | | |
| | Term 2 | |
| 10501102 | Health Insurance and Reimbursement OR | 3 |

| 10501102 Health Insurance and Reimbursem | nent OR 3 |
|----------------------------------------------|-----------|
| 31509307 Medical Office Insurance | e & |
| Finance (2 cr) | |
| 31509305* Medical Assistant Laboratory Proce | dures 2 2 |
| 31509306* Medical Assistant Clinical Procedu | res 2 3 |
| 31501308* Pharmacology for Allied Health | 2 |
| 31509309* Medical Law, Ethics & Profess | 2 |
| 31509310* Medical Assistant Practicum | 3 |
| | 15 |

TOTAL 33

Credit(s)

*8 week classes

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year. CULTURE OF HEALTHCARE...is an introduction to the culture of healthcare for students interested in working in various healthcare settings. Learners examine professionalism, interpersonal and written communication skills, problem-solving skills, patient privacy, and confidentiality issues as they relate to healthcare.

DIGITAL LITERACY FOR HEALTHCARE...focuses on the use of technology in healthcare. Learners use common business software applications, including word processing, presentation, spreadsheet, and databases. Communication methods using technology are addressed. Learners gain experience with using the electronic health record (EHR). Healthcare EHR security issues, social media use, and digital healthcare resources are examined.

HUMAN BODY IN HEALTH & DISEASE...students learn to recognize human body structure and function in health and disease states. Students explore the causes, signs, and symptoms of diseases of the major body systems as well as the diagnostic procedures, usual treatment, prognosis, and prevention of diseases commonly diagnosed and treated in the medical office setting. COREQUISITE: 31501302 or 10501101 Medical Terminology and Reading placement assessment equivalent

MEDICAL ASSISTANT ADMINISTRATIVE PROCEDURES...introduces medical assistant students to office management, business administration, and the electronic medical record (EMR) in the medical office. Students learn to schedule appointments, perform filing, record keeping, telephone and reception duties, communicate effectively with patients and other medical office staff, and keep an inventory of supplies.CONDITION: Reading placement assessment and 315091 Medical Assistant program requirements met and COREQUISITE: 31501307 or 10501107 DigitalLiteracy for Healthcare

MEDICAL ASSISTANT CLINICAL PROCEDURES 1...introduces medical assistant students to the clinical procedures performed in the medical office setting. Students perform basic examining room skills including screening, vital signs, patient history, minor surgery and patient preparation for routine and specialty exams in the ambulatory care setting. Learner explores communication principles and psychology theories related to patient care. COREQUISITE: 31509302 Human Body in Hlth & Disease and 31509303 Med Assist Lab Proc 1 & CONDITION: Reading placement assessment and 315091 Med Assist program requirements

MEDICAL ASSISTANT CLINICAL PROCEDURES 2...prepares medical assistant students to perform patient care skills in the medical office setting. Students perform clinical procedures including administering medications, performing an electrocardiogram, assisting with respiratory testing, coaching patients, and assisting with memory situations in an ambulatory care setting. Students learn preventive care and principles of nutrition. PREREQUISITES: 31509304 Medical Assistant Clinical Procedures 1 and 31509303 Medical Assistant Lab Procedures 2, 31501308 Pharmacology for Allied Health, and 31509310 Medical Assistant Practicum

MEDICAL ASSISTANT LAB PROCEDURES 1...introduces medical assistant students to laboratory procedures commonly performed by medical assistants in a medical office setting. Students perform Clinical Laboratory Improvement Amendment (CLIA) waived routine laboratory procedures commonly performed in the ambulatory care setting. Students follow laboratory safety requirements and federal regulations while performing specimen collection and processing, microbiology and urinalysis testing. COREQUISITE: 31509304 Medical Assistant Clinical Procedures 1 and CONDITION: Reading placement assessment and 315091 Medical Assistant program requirements met

MEDICAL ASSISTANT LAB PROCEDURES 2...prepares students to perform phlebotomy and Clinical Laboratory Improvement Amendment (CLIA) waived hematology, chemistry, immunology and laboratory procedures commonly performed by medical assistants in the ambulatory care setting. PREREQUISITE: 31509303 Medical Assistant Lab Procedures I and COREQUISITES: 31509306 Medical Assistant Clinical Procedures 2, 31501308 Pharmacology for Allied Health, and 31509310 Medical Assistant Practicum

MEDICAL ASSISTANT PRACTICUM...requires medical assistant students to integrate and apply knowledge and skills from all previous medical assistant courses in acute ambulatory health care settings. Learners perform medical assistant administrative, clinical, and laboratory duties under the supervision of trained mentors to effectively transition to the role of a medical assistant. This is a supervised, unpaid, clinical experience. This 216-hour clinical experience begins 3 days/week mid-semester and may extend beyond the date of graduation. Student's CPR and First Aid certification must be current throughout the entire Practicum. All other program courses must be passed with grade C or better to enroll in this course. CONDITION: 315091 Medical Assistant and Health Formcompleted and PREREQUISITES: 31509301 MA-Adm Prc, 31501304 or 10501104 Cult of Hithcare, 31509302 Human Body Hith Disease and COREQUISITES: 31509306 MA CI Prc 2, 31509305 MA Lab Prc 2, 31501308 Phrm-Allied Hith, 10501102 Hith Ins/Reimb, 31509309 MedLaw/Ethics/Prof

MEDICAL LAW, ETHICS & PROFESSIONALISM...prepares students to display professionalism and perform within ethical and legal boundaries in the health care setting. Students maintain confidentiality, examine legal aspects of ambulatory healthcare, perform quality improvement procedures, examine legal and bioethical issues, and demonstrate awareness of diversity. CONDITION: 315091 Medical Assistant or 315164 Ophthalmic Medical Assistant program requirements met

MEDICAL OFFICE INSURANCE & FINANCE...introduces learners to health insurance and finance in the medical office. Students learn to perform bookkeeping procedures, apply managed care guidelines, and complete insurance claim forms. Learners use medical coding and managed care terminology to perform insurancerelated duties. COREQUISITES: 10501101 Medical Terminology, or 10806105 Medical Terminology, 31509302 Human Body in Health & Disease and 10501107 Computing for Healthcare and CONDITION: 315091 Medical Assistant

MEDICAL TERMINOLOGY...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

PHARMACOLOGY FOR ALLIED HEALTH...introduces students to medication classification, basic pharmacology principles, and supplements. Students apply basic pharmacodynamics to identify common medications and calculate dosages in preparation for medication administration. COREQUISITES: 31509302 Human Body in Health/Disease, 31509310 MA Practicum, and 31509305 MA Lab Proc 2



MEDICAL CODER

Program Number 31-530-3 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

The Medical Coder program allows students to work at their own pace to prepare students for employment as entry level coding specialists in health care facilities such as hospitals, clinics, physician practice groups, surgery centers, long-term care facilities, and home healthcare agencies. Medical coders are also employed in consulting firms, coding and billing services, insurance companies, governmental agencies, and computer software companies. The medical coder reviews medical documentation provided by physicians and other health care providers and translates this into numerical codes. The coders assign and sequence diagnostic and procedural codes using universally recognized coding systems. Several uses of coded data are for payment of health care claims, statistics, and medical research.

PROGRAM OUTCOMES

- Assign diagnostic and procedure codes using the ICD coding system.
- Assign procedure codes using the HCPCS/CPT coding system.
- Adhere to security/privacy/confidentiality policies.
- · Use computers to process information.
- · Support data collection and reimbursement system.
- Communicate in a professional manner.
- · Model professional behaviors, ethics, and appearance.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Read program handbook and submit the signed signature page.
- Schedule your 1st Time Program Counseling/Registration Session with your
- assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

To complete the clinical portion of this program, site specific health and immunization documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | Class Title | Credit(s) |
|-------------|---------------------------------------|-----------|
| | Term 1 | |
| 10501115 | Medical Terminology - Part 1 | 1 |
| 10501116 | Medical Terminology - Part 2 | 1 |
| 10501117 | Medical Terminology - Part 3 | 1 |
| 10501107 | Digital Literacy for Healthcare | 2 |
| 10530141 | Introduction to the Healthcare System | 1 |
| 10530142 | Introduction to the Medical Record | 1 |
| 10530143 | Medical Record Processes | 1 |
| 10530182 | Human Diseases for Health Profession | ns 3 |
| 10806189 | Basic Anatomy | 3 |
| 10103101 | Access - Level 1 | 1 |
| | | 15 |

Term 2

| 10530130 | CPT Coding Part 1 | 1 |
|----------|----------------------------------------|---|
| 10530131 | CPT Coding Part 2 | 1 |
| 10530132 | CPT Coding Part 3 | 1 |
| 10530133 | ICD Diagnosis Coding Part 1 | 1 |
| 10530134 | ICD Diagnosis Coding Part 2 | 1 |
| 10530135 | ICD Diagnosis Coding Part 3 | 1 |
| 10530136 | Introduction to PCS Coding | 1 |
| 10530137 | Application of PCS Coding | 1 |
| 10530144 | 3M Coding System | 1 |
| 10530145 | Find a Code Coding System | 1 |
| 10530146 | Nuance Coding System | 1 |
| 10530147 | HIM/Coding Practicum Part 1 | 1 |
| 10530148 | HIM/Coding Practicum Part 2 | 1 |
| 10530138 | Healthcare Revenue Mgmt: Payment | 1 |
| | Methodologies | |
| 10530139 | Healthcare Revenue Mgmt: Revenue | 1 |
| | Compliance | |
| 10530140 | Healthcare Revenue Mgmt: Revenue Cycle | 1 |
| | | |

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TOTAL 31

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

3M CODING SYSTEM...prepares the learner to utilize 3M Coding System to complete coding scenarios. COREQUISITES: 10530131 CPT Coding Part 2, 10530132 CPT Coding Part 3, 10530134 ICD Diagnosis Coding Part 2, 10530135 ICD Diagnosis Coding Part 3, 10530137 Application of PCS Coding

ACCESS - LEVEL 1...introduces students to the process of creating a database, building and populating a table, establishing table relationships, and creating queries, forms, and reports.

APPLICATION OF PCS CODING...prepares the learner to assign ICD-PCS procedure codes as they apply to all of the body systems and miscellaneous procedures. COREQUISITE: 10530136 Introduction to PCS Coding

BASIC ANATOMY...examines concepts of anatomy and physiology as they relate to health careers. Learners correlate anatomical and physiological terminology to all body systems. COREQUISITE: Reading placement assessment or equivalent

CPT CODING PART 1...prepares the learner to apply the rules of CPT Medical Coding as they relate to the format and conventions, evaluation and management, medicine, and ancillary services (lab/x-ray) and HCSPS.

CPT CODING PART 2...prepares the learner to apply the rules of CPT Medical Coding as they relate to digestive, urinary, reproductive, neurologic, and sensory systems. COREQUISITE: 10530130 CPT Coding Part 1

CPT CODING PART 3...prepares the learner to apply the rules of CPT Medical Coding as they relate to the integumentary, musculoskeletal, circulator, respiratory systems, and anesthesia. COREQUISITE: 10530131 CPT Coding Part 2

DIGITAL LITERACY FOR HEALTHCARE...focuses on the use of technology in healthcare. Learners use common business software applications, including word processing, presentation, spreadsheet, and databases. Communication methods using technology are addressed. Learners gain experience with using the electronic health record (EHR). Healthcare EHR security issues, social media use, and digital healthcare resources are examined.

FIND A CODE CODING SYSTEM...prepares the learner to utilize Find a Code Coding System to complete coding scenarios. COREQUISITE: 10530144 3M Coding System

HC REV MANAGEMENT: PAYMENT METHODOLOGIES...prepares the learner to compare government and non-government payers and payment methodologies.

HC REV MANAGEMENT: REVENUE COMPLIANCE...prepares the learner to apply various payment methodologies while ensuring compliance with regulations and future trends. COREQUISITE: 10530138 HC Revenue Mgmt Payment Methodologies

HC REV MANAGEMENT: REVENUE CYCLE...prepares the learner to conduct activities of and manage the revenue cycle. COREQUISITE: 10530139 HC Revenue Mgmt Revenue Compliance

HIM/CODING PRACTICUM PART 1...prepares the learner to evaluate the Patient Registration, Medical Coding, and Medical Claims process in a clinical setting. COREQUISITES: 10530131 CPT Coding Part 2, 10530132 CPT Coding Part 3, 10530134 ICD Diagnosis Coding Part 2, 10530135 ICD Diagnosis Coding Part 3, 10530137 Application of PCS Coding

HIM/CODING PRACTICUM PART 2...prepares the learner to complete a Resume Preparation, Interview Process and Portfolio Project. COREQUISITES: 10530131 CPT Coding Part 2, 10530132 CPT Coding Part 3, 10530134 ICD Diagnosis Coding Part 2, 10530135 ICD Diagnosis Coding Part 3, 10530137 Application of PCS Coding

HUMAN DISEASE FOR HEALTH PROFESSIONS...prepares learners to interpret clinical documentation that they will encounter in a variety of healthcare settings. Emphasis is placed on understanding the common disorders and diseases of each body system to include the etiology (cause), signs and symptoms, diagnostic tests and results, and medical treatments and surgical procedures. COREQUISITES: 10501101 Medical Terminology or 10501117 Medical Terminology-Part 3

ICD DIAGNOSIS CODING PART 1...prepares the learner to examine the rules of ICD classification systems and assign ICD diagnosis codes to infectious, endocrine, metabolic, digestive, respiratory systems, injuries, poisonings, and signs/symptoms.

ICD DIAGNOSIS CODING PART 2...prepares the learner to assign ICD diagnosis codes as they relate to neoplasms, nervous, eye, ear, genitourinary, pregnancy, perinatal, and congenital disorders. COREQUISITE: 10530133 ICD Diagnosis Coding Part 1

ICD DIAGNOSIS CODING PART 3...prepares the learner to assign ICD diagnosis codes as they relate to blood, circulatory, behavioral/mental health, skin, musculoskeletal diseases, and miscellaneous factors influencing health care. COREQUISITE: 10530133 ICD Diagnosis Coding Part 1

INTRODUCTION TO PCS CODING...prepares the learner to examine the rules of the ICD-PCS procedure coding classification system and assign codes that describe the root operation of the PCS classification system.

INTRODUCTION TO THE HC SYSTEM...prepares the learner to evaluate various influences on the healthcare system such as external forces, types of organizations, and roles and responsibilities of healthcare providers.

INTRODUCTION TO THE MEDICAL RECORD...prepares the learner to demonstrate professional ethical standards while examining data collection tools and information governance. COREQUISITE: 10530141 Intro to the Healthcare System

MEDICAL RECORDS PROCESSES...prepares the learner to perform medical record processes and examine data sources while maintaining quality standards. COREQUISITE: 10530142 Intro to the Medical Record

MEDICAL TERMINOLOGY - PART 1...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of integumentary, respiratory, and urinary systems, as well as systemic and surgical terminology.

MEDICAL TERMINOLOGY - PART 2...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of reproductive systems, cardiovascular system, and the lymphatic and immune systems as well as systemic and surgical terminology. COREQUISITE: 10501115 Medical Terminology - Part 1

MEDICAL TERMINOLOGY - PART 3...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of digestive, skeletal, muscular, sensory, nervous, and endocrine as well as systemic and surgical terminology. COREQUISITE: 10501116 Medical Terminology - Part 2

NUANCE CODING SYSTEM...prepares the learner to utilize Nuance Coding system to complete coding scenarios. COREQUISITE: 10530145 Find a Code Coding System



MEDICATION ASSISTANT

Program Number 30-510-5 Technical Diploma • One Term

ABOUT THE PROGRAM

This course is designed for current certified nursing assistants looking to grow professionally by learning the role and scope of the medication assistant and how to administer select medications safely. Course content includes basic principles of medication administration, simple math calculations, the scope of the medication assistant, and simulated and clinical experiences.

PROGRAM OUTCOMES

- Adhere to the scope and practice of a medication assistant.
- Administer medications as allowed by DHS 129 regulations.
- Adhere to the rights of medication administration and safety.
- · Protect client rights and confidentiality.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

APPLICATION REQUIREMENTS

- Contact Health & Human Services Division.
- You must have a sponsoring employer and contract before attending.

| Catalog No. | Class Title | Credit(s) |
|-------------|-------------|-----------|
| | Term 1 | |

30510109 Medication Assistant

3

TOTAL 3

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

MEDICATION ASSISTANT...prepares experienced nursing assistant, current on the Federal Nursing Assistant Directory, to administer medications to residents of a Skilled Care Nursing Facility. The scope of the course covers the role of the Medication Assistant, legalities of medication administration, control and storage of drugs, techniques of administering drugs, and record keeping. The combination of lecture/ discussion classes, practice labs, and clinical experience also covers drug actions and impact on body systems, utilization of drug reference materials, and recognition of drug side effects. Qualifies the graduate for inclusion in the State of Wisconsin Nursing Assistant Directory as trained and approved to administer medications. CONDITION: 305105 Medication Assistant admission requirements met



NURSING ASSISTANT

Program Number 30-543-1 Technical Diploma • One Term

ABOUT THE PROGRAM

The Nursing Assistant program prepares students for employment as nursing assistants. The program also prepares students for other health-related programs. Students will be required to demonstrate the following skills under the supervision of a licensed nurse: communication, basic nursing assistant and personal care skills, attention to client's rights, and care of clients with dementias. The program is recognized by the Wisconsin Department of Health Services as a nurse-aide training program. Upon successful completion of the program, the student is eligible to take the Wisconsin Nursing Assistant competency evaluation for inclusion on the Wisconsin Nurse Aide Registry and employment in nursing homes, hospitals, home health agencies, hospices, CBRF's, assisted living centers and homes for the developmentally disabled.

PROGRAM OUTCOMES

- · Communicate effectively with clients, family and co-workers.
- · Protect rights of clients.
- Demonstrate ethical and legal responsibilities.
- · Work cooperatively in a team environment.
- Provide holistic, safe care to diverse populations.
- Demonstrate reporting and documentation.
- · Assist clients with rehabilitation and restorative care.
- · Provide safe care for clients with acute and chronic health conditions.
- Complete educational requirements for the WI NA competency evaulation.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Review and complete Nursing Assistant Handbook.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your schedule and discuss the results of the Student Success Questionnaire.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

The Nursing Assistant program meets state and federal requirements for training and testing. Upon completion, the graduate will be eligible to sit for the State of Wisconsin Nursing Assistant Competency Examination. The Nursing Assistant program is open to eligible individuals including high school students who are at least 16 years of age or older. This program is not eligible for financial aid.

Lakeshore Technical College's Nursing Assistant program courses prepare students to obtain state certification to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examinations, or licensure for other states.

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

To complete the clinical portion of this program, site specific health and immunization documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

| Catalog No. | Class Title | Credit(s) |
|-------------|--------------------------|-----------|
| | Term 1 | |
| 30543301 | Nursing Assistant Part 1 | 1 |
| 30543302 | Nursing Assistant Part 2 | 1 |

TOTAL 2

NURSING ASSISTANT PART 1...teaches students a portion of required skills via online instruction. The student will practice and check off on these skills in the lab. Workbook assignments and online tests are also included. CONDITION: CBE Nursing Assistant assessment

NURSING ASSISTANT PART 2...teaches students the rest of the required nursing assistant skills via online instruction and continues with nursing assistant skills check offs in the lab. The student will then progress into the clinical environment. Upon successful completion of this competency, the student is eligible to take the Wisconsin Nursing Assistant competency evaluation for inclusion on the Wisconsin Nurse Aide Registry. COREQUISITE: 30543301 Nursing Assistant Part 1 and CONDITION: CBE Nursing Assistant assessment. Students must successfully complete Nursing Assistant Part 2

AKESHORE TECHNICAL COLLEGE

PART-TIME • DAYS • 7 TERMS **NURSING • ASSOCIATE DEGREE**

ABOUT THE PROGRAM

If you're ill or injured, it's comforting to know you're in the care of highly skilled, well-educated healthcare professionals. At the core of that healthcare team are registered nurses whose mission is to assess and care for the ill and injured as well as to maintain health and prevent illness of individuals across the lifespan. If you work well under pressure; like math, science, communications, and problem solving; are independent; and have a strong desire to work with and help people-success may be yours as a registered nurse.

PROGRAM OUTCOMES

- Integrate professional nursing identity reflecting integrity, responsibility, and nursing standards.
- Communicate comprehensive information using multiple sources in nursing practice.
- Integrate theoretical knowledge to support decision making.
- Integrate the nursing process into patient care across diverse population.
- Function as a healthcare team member to provide safe and effective care.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc. edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.

- Submit official high school transcripts.

*Submit college transcripts and test scores (optional, highly recommended): College transcripts, along with test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Read the Nursing Program Handbook and submit the signed signature page. - Schedule your 1st Time Program Counseling/Registration Session with your
- assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

- Pass HESI exam (Health Occupations Entrance assessment) with a 75% or higher.
- Complete chemistry requirement.
- Meet math requirements (Accuplacer score of 263 or equivalent)
- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

- · High school Chemistry may fulfill admission requirement.
- · To complete the clinical portion of this program, site specific health and immunization documentation will be required.
- Nursing Assistant skills must be attained/verified within one semester prior to starting clinicals.
- LTC's Nursing—Associate Degree program is accredited by the Accreditation Commission for Education in Nursing, 3390 Peachtree Road N.E., Suite 1400, Atlanta, GA 30326. 404-975-5000 Fax 404-975-5020. www.acenursing.org

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

Program Number 10-543-1 Associate Degree in Applied Science

| Catalog No. | Class Title | Credit(s) |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| 10806177 10809198 10801195 | Term 1 General Anatomy & Physiology Introduction to Psychology Written Communications | 4 3 3 10 |
| 10806179 10801196 10809188 | Term 2 Advanced Anatomy & Physiology Oral/Interpersonal Communications Developmental Psychology | 4 3 3 10 |
| 10806197 10809172 | Term 3 Microbiology Introduction to Diversity Studies OR 10809196 Introduction to Sociology | 4 3 7 |
| 10543101 10543102 10543103 10543104 | Term 4 Nursing Fundamentals Nursing Skills Nursing Pharmacology Nursing Intro to Clinical Practice | 2 3 2 2 9 |
| 10543105 10543106 10543107 10543108 | Term 5 Nursing Health Alterations Nursing Health Promotion Nursing Clinical Care Across the Lifespan Intro to Clinical Care Management | 3 2 2 10 |
| 10543109 10543110 10543111 10543112 | Term 6 Nursing Complex Health Alterations 1 Mental Health & Community Concepts Nursing Intermediate Clinical Practice Nursing Advanced Skills | 3 2 3 1 9 |
| 10543113 10543114 10543115 10543116 | Term 7 Nursing Complex Health Alterations 2 Nursing Management & Professional Concepts Nursing Advanced Clinical Practice Nursing Clinical Transition | 3 2 10 |
| | | L 65 |
| | nded Support Virtual Clinical for 2nd Semester Nursing Virtual Clinical for 3rd Semester Nursing | 1 1 |

Lakeshore Technical College's Nursing-Associate degree program prepares students to obtain the required licensure to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examination, or licensure for other states

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year. ADVANCED ANATOMY AND PHYSIOLOGY...is the second semester in a two-semester sequence in which normal human anatomy and physiology are studied using a body systems approach with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. Instructional delivery within a classroom and laboratory setting, Experimentation within a science lab will include analysis of cellular metabolism, the individual components of body systems such as the nervous, neuro-muscular, cardiovascular, and urinary. Continued examination of homeostatic mechanisms and their relationship to fluid, electrolyte, acid-base balance and blood. Integration of genetics to human reproduction and development are also included in this course. PREREQUISITE: 10806177 General Anatomy & Physiology or equivalent and Reading placement assessment equivalent

DEVELOPMENTAL PSYCHOLOGY...introduces the student to the study of human development throughout the lifespan. This course explores developmental theory and research with an emphasis on the interactive nature of the biological, cognitive, and psychosocial changes that affect the individual from conception to death. Application activities and critical thinking skills will enable students to gain an increased knowledge and understanding of themselves and others. COREQUISITE: Reading placement assessment or equivalent

GENERAL ANATOMY AND PHYSIOLOGY...examines basic concepts of human anatomy and physiology as they relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision-making and professional communication with colleagues and patients. PREREQUISITE: 10806134 General Chemistry or equivalent

INTRO TO CLINICAL CARE MANAGEMENT...applies nursing concepts and therapeutic nursing interventions to groups of clients across the lifespan. It also provides an introduction to leadership, management, and teambuilding. Student must have completed all first semester courses. Course requires a minimum grade of "C" or better. CONDITION: 105431 Nursing - Associate Degree enrollment requirements met and COREQUISITE: 10543105 Nursing Health Alterations

INTRODUCTION TO DIVERSITY STUDIES...introduces learners to the study of diversity from a local to a global environment using a holistic, interdisciplinary approach. Encourages self-exploration and prepares the learner to work in a diverse environment. In addition to an analysis of majority/minority relations in a multicultural context, the primary topics of race, ethnicity, age, gender, class, sexual orientation, disability, religion are explored. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

MENTAL HEALTH & COMMUNITY CONCEPTS...cover topics related to the delivery of community and mental health care. Specific health needs of individuals, families, and groups will be addressed across the lifespan. Attention given to diverse and at-risk populations. Mental health concepts will concentrate on adaptive/maladaptive behaviors and specific mental health disorders. Community resources examined in relation to specific types of support offered to racial, ethnic, and economically diverse individuals and groups. Student must have completed all second semester courses. Course requires a minimum grade of "C" or better. PREREQ:10543105 Nrsg Htth Alt, 10543106 Nrsg Htth Promo, 10543107 Clin Care Lifespan, 10543108 Intro Clin Care Mgt, and CONDITION: 105431 Nursing-Assoc Degree enrollment reqs met

MICROBIOLOGY...introduces the learner to examine microbial structure, metabolism, genetics, growth and relationship between humans and microorganisms. Addresses disease production, epidemiology, host defense mechanisms and the medical impact of microbes. Examines the role of microbes in the environment, industry, and biotechnology. PREREQUISITE: 10806177 General Anatomy and Physiology or equivalent

NURSING ADVANCED CLINICAL PRACTICE...requires the student to integrate concepts from all previous courses in the management of groups of clients facing complex health alterations. Students will have the opportunity to further develop critical thinking skills using the nursing process in making clinical decisions. Continuity of care through interdisciplinary collaboration is emphasized. Student must have completed third semester courses. Course requires a minimum grade of "C" or better. COREQUISITE: 10543113 Nursing Complex Health Alt II and CONDITION: 105431 Nursing - Associate Degree enrollment reqs met

NURSING ADVANCED SKILLS...focuses on the development of advanced clinical skills across the lifespan. Content includes advanced IV skills, blood product administration, chest tube systems, basic EKG interpretation and nasogastric/feeding tube insertion. This course requires a minimum grade of "C" or better. PREREQ: 10543105 Nrsg Hlth Alt, 10543106 Nrsg Hlth Promotion, 10543107 Clin Care Across Lifespan, 10543108 Intro Clin Care Mgmt, and CONDITION: 105431 Nursing-Assoc Degree enrollment requirements met

NURSING CLINICAL CARE ACROSS THE LIFESPAN...applies nursing concepts and therapeutic interventions to clients across the lifespan. It also provides an introduction to concepts of teaching and learning. Extending care to include the family is emphasized. Student must have completed all first semester courses. Course requires a minimum grade of "C" or better. CONDITION: 105431 Nursing - Associate Degree enrollment requirements met and COREQUISITE: 10543106 Nursing Health Promotion

NURSING CLINICAL TRANSITION...integrates all knowledge learned in the previous courses in transitioning to the role of the graduate nurse. The course promotes relatively independent clinical decisions, delegation, and works collaboratively with others to achieve client and organizational outcomes. Continued professional development is fostered. Student must have completed all third semester courses. Course requires a minimum grade of "C" or better. COREQUISITE: 10543115 Nrsg Advanced Clinical Practice and 10543114 Nursing Management Concepts and 10543113 Nursing Complex Health Alterations II and CONDITION: 105431 Nursing - Associate Degree enrollment requirements met NURSING COMPLEX HEALTH ALTERATIONS 1...prepares the learner to provide and evaluate care for patients across the lifespan with alterations in cardiovascular, respiratory, endocrine, and hematologic systems as well as patients with fluid/electrolyte and acid-base imbalance, and alterations in comfort. Student must have completed all second semester courses. Course requires a minimum grade of "C" or better. PREREQ: 10543105 Nrsg Hlth Alt, 10543106 Nrsg Hlth Promotion, 10543107 Clin Care Across Lifespan, 10543108 Intro Clin Care Mgmt and CONDITION:105431 Nursing-Assoc Degree enrollment req met

NURSING COMPLEX HEALTH ALTERATIONS 2...prepares the learner to provide and evaluate care for patients across the lifespan with alterations in the immune, neuro-sensory, musculoskeletal, gastrointestinal, hepatobillary, renal/urinary, reproductive systems and shockburns and trauma. The learner will also focus on management of care for patients with high-risk perinatal conditions and high-risk newborns. This course requires a minimum grade of "C" or better. PREREQUISITE: 10543109 Nrsg Complex Hith Alt 1 and 10543112 Nrsg Adv Skills and 10543110 Nrsg Mental Hith Comm Concepts and 10543111Nrsg Interm Clin Prac and CONDITION: 105431 Nursing-Associate Degree enrollment requirements met

NURSING FUNDAMENTALS...focuses on basic nursing concepts to provide evidencedbased care to diverse patient populations across the lifespan. Current and historical issues impacting nursing will be explored within the scope of nursing practice. The nursing process will be introduced as a framework for organizing the care of patients. This course requires a minimum grade of "C" or better. PREREQUISITE: 10806177 or 10806177OL or 10806177SA Gen Anatomy and Physiology, 10801195 Written Comm or 10801195OL Written Comm-Online and CONDITION: 105431 Nursing-Associate Degree

NURSING HEALTH ALTERATIONS...elaborates upon the basic concepts of health and illness as presented in Nursing Fundamentals. It applies theories of nursing in the care of clients through the lifespan, utilizing problem solving and critical thinking. This course will providean opportunity to study conditions affecting different body systems and apply evidencebased nursing interventions. It will also introduce concepts of leadership and management. Course requires a minimum grade of "C" or better. PREREQUISITE: 10543101 Nrsg Fund and 10543102 Nrsg Skills and 10543103 Nursg Pharm and 10543104 Nrsg: Intro to Clin Practice and CONDITION: 105431 Nursing-Associate Degree enrollment requirements met

NURSING HEALTH PROMOTION...focuses on topics related to health promotion in for individuals and families throughout the lifespan. We will cover nursing care of the developing family, which includes reproductive issues, pregnancy, labor and delivery, post-partum, the newborn, and the child. Recognizing the spectrum of healthy families we will discern patterns associated with adaptive and maladaptive behaviors applying mental health principles. An emphasis is placed on teaching and supporting healthy lifestyle choices for individuals of all ges. Nutrition, exercise, stress management, empowerment, and risk reduction practices are highlighted. Study of the family will cover dynamics, functions, discipline styles, and stages of development. Course requires a minimum grade of "C" or better. PREREC: 10543101 Nrsg Fundamentals, 10543102 Nrsg Skills, 10543103 Nrsg Pharmacology, 10543104 Nrsg Intro Clinical Prac, and CONDITION: 105431 Nrsg-Associate Degree enrollment requirements met

NURSING INTERMEDIATE CLINICAL PRACTICE...develops the RN role when working with clients with complex health care needs. A focus of the course is developing skills needed for managing multiple clients across the lifespan and priorities. Using the nursing process students will experience adapting nursing practice to meet the needs of clients with diverse needs and backgrounds. Student must have completed all second semester courses. Course requires a minimum grade of "C" or better. COREQUISITE: 10543112 Nursing Adv Skills and 10543109 Nursing Complex Health Alt I and 10543110 Nursing Mental Health Community Concepts and CONDITION: 105431 Nursing-Associate Degree enrollment reqs met

NURSING INTRO CLINICAL PRACTICE...an introductory clinical course that emphasizes basic nursing skills and application of the nursing process in meeting the needs of diverse clients across the lifespan. Emphasis placed on performing basic nursing skills, the formation of nurse-client relationships, communication, data collection, documentation, and medication administration. Student needs to be enrolled in the Nursing program. Course requires a minimum grade of "C" or better. CONDITION: 105431 Nursing-Assoc Degree enrollment reqs met and COREQ: 10543101 Nrsg Fund & 10543102 Nrsg Skills & 10543103 Nrsg Pharm

NURSING MANAGEMENT & PROFESSIONAL CONCEPTS...covers nursing management and professional issues related to the role of the registered nurse. Emphasis is placed on preparing for practice as a registered nurse. This course requires a minimum grade of "C" or better. PREREQUISITE: 10543109 Nrsg Complex Hith Alterations 1 and 10543112 Nursing Advanced Skills and 10543110 Nrsg Mental Hith Comm Concepts and 10543111 Nrsg Interm Clin Practice and CONDITION: Nursing-Associate Degree enrollment requirements met

NURSING PHARMACOLOGY...introduces principles of pharmacology, including drug classifications and their effects on the body. Emphasis on the use of the components of the nursing process when administering medications. Student must be enrolled in the Nursing program. Course requires a min grade of "C" or better. COND: 105431 Nursing-Assoc Degree enrollment reqs met and PREREQ: 10806177 or 10806177OL or 10806177SA Gen Anat & Phys

NURSING SKILLS...focuses on development of evidence-based clinical skills and physical assessment across the lifespan. Content includes mathematical calculations and conversions related to clinical skills. In addition the course includes techniques related to obtaining a current health history and basic physical assessment skills using a body systems approach. Course requires a min grade of "C" or better. CONDITION: 105431 Nursing-Assoc Degree enrollment reqs met and PREREQUISITE: 10806177 or 10806177OL or 10806177SA Gen Anat & Phys

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent.



OFFICE ASSISTANT

Program Number 31-106-1 Technical Diploma • Two Terms

ABOUT THE PROGRAM

Today's businesses realize it takes efficiency and effectiveness on the part of the office staff to be successful. If your ideal work environment includes using high-tech equipment, working well with people, being organized and attentive to detail, and handling a variety of different tasks, a career as an office assistant may be a satisfying choice.

PROGRAM OUTCOMES

- · Demonstrate effective workplace communications.
- · Apply technology skills to business and administrative tasks.
- Perform routine office procedures.
- · Model professionalism in the workplace.
- · Maintain internal and external relationships.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Keyboard Speedbuilding assessments must be proctored at an LTC testing site. Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

RELATED PROGRAMS

Administrative Professional Associate Degree

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| Catalog No. | Class Title | Credit(s) |
|-------------|----------------------------------|-----------|
| | Term 1 | |
| 10103121 | Excel - Level 1 | 1 |
| 10103161 | PowerPoint - Level 1 | 1 |
| 10103191 | Word - Level 1 | 1 |
| 10106101 | Document Formatting | 1 |
| 10106200 | Introduction to Filing Systems | 1 |
| 10106201 | Applying Filing Systems | 1 |
| 10106202 | Computers and the Internet | 1 |
| 10106203 | Basic Office Equipment | 1 |
| 10106132 | Keyboard Speedbuilding | 1 |
| 10801195 | Written Communication | 3 |
| 10801196 | Oral/Interpersonal Communication | 3 |
| | | |

Term 2

| 10103101 | Access - Level 1 | 1 |
|----------|--------------------------------------|----|
| 10103122 | Excel - Level 2 | 1 |
| 10103192 | Word - Level 2 | 1 |
| 10106204 | Professionalism and Work Skills | 1 |
| 10106205 | Interacting with Others in Workplace | 1 |
| 10106206 | Leadership and Ethics | 1 |
| 10106207 | Web 2.0 for Business | 1 |
| 10106208 | HTML, CSS, and Web Design | 1 |
| 10106209 | Introduction to Business Writing | 1 |
| 10106210 | Intermediate Business Writing | 1 |
| 10106211 | Business Writing Application | 1 |
| 10116109 | Career Planning & Networking | 1 |
| | - 0 | 12 |

TOTAL 27

15

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

2023-24

ACCESS - LEVEL 1...introduces students to the process of creating a database, building and populating a table, establishing table relationships, and creating queries, forms, and reports. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

APPLYING FILING SYSTEMS...applies the rules for paper and electronic filing systems; charge-out procedures, retention schedules, and transfer methods. COREQUISITE: 10106200 Introduction to Filing Systems and CONDITION: CBE Admin Assessment

BASIC OFFICE EQUIPMENT...prepares the learner to work in office setting. The learner will be exposed to typical hardware found and software used in the office environment and gain the skills needed to be efficient on the job. CONDITION: CBE Admin Assessment

BUSINESS WRITING APPLICATION...develop transcription and composition skills to create and process business documents. PREREQUISITE: 10106209 Introduction to Business Writing and 10106210 Intermediate Business Writing and CONDITION: CBE Admin Assessment

CAREER PLANNING & NETWORKING...focuses on the process of researching and pursuing professional career opportunities. Students will develop resume and cover letter documentation to accurately reflect personal, academic, and professional accomplishments and the connection that these elements have to various positions with employers. Interviewing skills will be a significant aspect of this experience with a focus on interviews for potential internship opportunities. CONDITION: CBE Admin Assessment

COMPUTERS AND THE INTERNET...provides the learner with introductory knowledge and skills related to operating a computer on a network and computer storage and processing. digital security, privacy, and threats; computer components; storage; and procedures that prepare you to work alongside administrative leaders via real-world business scenarios. The learner will also evaluate internet service providers. CONDITION: CBE Admin Assessment

DOCUMENT FORMATTING...prepares the learner to keyboard and format business memorandums, letters and reports, and other business documents. Emphasis will be placed on proofreading and editing skills. COREQUISITES: 10103191 Word -Level 1 or equivalent and CONDITION: CBE Admin Assessment

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

EXCEL - **LEVEL** 2...will explore Excel tables and charts, working with multiple worksheets and workbooks at once, creating applications and rules, protecting worksheets and workbooks and learning about macros and comments. COREQUISITE: 10103121 Excel - Level 1 or equivalent and CONDITION: CBE Software Learning Center Assessment or CONDITION: CBE Admin Assessment

HTML, CSS, AND WEB DESIGN...prepares the learner to write and modify code to create a simple business website and custom HTML emails. PREREQUISITE: 10106207 Web 2.0 for Business and CONDITION: CBE Admin Assessment

INTERACTING WITH OTHERS...prepares the learner to identify different communication styles and strategies while working in a diverse environment. Learners will examine exemplary customer service skills. CONDITION: CBE Admin Assessment Intermediate Business Writing...refine and apply writing skills within the professional workplace. Proofread and edit business documents for appropriate content and clarity. PREREQUISITE: 10106209 Introduction to Business Writing and CONDITION: CBE Admin Assessment

INTRO TO BUSINESS WRITING...develop writing skills with a focus on effective communication within the professional workplace. Review grammar, punctuation, and word usage skills. CONDITION: CBE Admin Assessment

INTRODUCTION TO FILING SYSTEMS...introduces the fundamentals of managing the record and information life cycle; charge-out procedures; retention schedules; transfer methods; control measurements; imaging systems and information security. CONDITION: CBE Admin Assessment

KEYBOARD SPEEDBUILDING...prepares the learner with the skills to keyboard text with speed and accuracy using the "touch" method. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

LEADERSHIP AND ETHICS...prepares the learner to deal with conflict in the workplace while maintaining ethical standards. The learner will also identify leadership styles in the workplace. CONDITION: CBE Admin Assessment

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

POWERPOINT - LEVEL 1...introduces the student to the program by planning and creating a presentation, adding media and special effects, and applying advanced formatting to objects. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

PROFESSIONALISM AND WORK SKILLS...prepares the learner to communicate effectively while developing and discussing critical work skills such as time and stress management, critical thinking, listening, and organization. CONDITION: CBE Admin Assessment

WEB 2.0 FOR BUSINESS...provides a basic understanding of the web as well as the tools used to create blogs, web videos, and social media accounts for business use. Reviews social web tools and components. CONDITION: CBE Admin Assessment

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

WORD - LEVEL 2...introduces the student to multi-column documents, templates, and the mail merge feature while applying WordArt, themes, styles, quick parts, and other advanced document formatting features. COREQUISITE: 10103191 Word - Level 1 or equivalent and CONDITION: CBE Software Learning Center Assessment or CONDITION: CBE Admin Assessment

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



OFFICE TECHNOLOGY

Catalog No. Class Title

Program Number 61-106-6 Certificate • 13 credits

ABOUT THE PROGRAM

Businesses depend on high-quality, accurate information. If you value organization, care about details, and understand the importance of clear communication and current technology skills, developing those talents with the Office Technology certificate may be just what you need to succeed.

PROGRAM OUTCOMES

- · Perform accurace workplace communications.
- Use technology skills for business tasks.
- · Perform routine office procedures.
- Demonstrate professionalism and effective workplace relationships.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

SPECIAL NOTE

Keyboard Speedbuilding assessments must be proctored at an LTC testing site. Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| | Term 1 | |
|----------|--------------------------------------|---|
| 10103191 | Word - Level 1 | 1 |
| 10106101 | Document Formatting | 1 |
| 10106202 | Computers and the Internet | 1 |
| 10106203 | Basic Office Equipment | 1 |
| 10106132 | Keyboard Speedbuilding | 1 |
| | | 5 |
| | | |
| | Term 2 | |
| 10103121 | Excel - Level 1 | 1 |
| 10103192 | Word - Level 2 | 1 |
| 10103161 | PowerPoint - Level 1 | 1 |
| 10106204 | Professionalism and Work Skills | 1 |
| 10106205 | Interacting with Others in Workplace | 1 |
| 10106206 | Leadership and Ethics | 1 |
| 10106207 | Web 2.0 for Business | 1 |

10106208 HTML, CSS, and Web Design

TOTAL 13

1

8

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

BASIC OFFICE EQUIPMENT...prepares the learner to work in office setting. The learner will be exposed to typical hardware found and software used in the office environment and gain the skills needed to be efficient on the job. CONDITION: CBE Admin Assessment

COMPUTERS AND THE INTERNET...provides the learner with introductory knowledge and skills related to operating a computer on a network and computer storage and processing. digital security, privacy, and threats; computer components; storage; and procedures that prepare you to work alongside administrative leaders via real-world business scenarios. The learner will also evaluate internet service providers. CONDITION: CBE Admin Assessment

DOCUMENT FORMATTING...prepares the learner to keyboard and format business memorandums, letters and reports, and other business documents. Emphasis will be placed on proofreading and editing skills. COREQUISITES: 10103191 Word -Level 1 or equivalent and CONDITION: CBE Admin Assessment

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

HTML, CSS, AND WEB DESIGN...prepares the learner to write and modify code to create a simple business website and custom HTML emails. PREREQUISITE: 10106207 Web 2.0 for Business and CONDITION: CBE Admin Assessment

INTERACTING WITH OTHERS...prepares the learner to identify different communication styles and strategies while working in a diverse environment. Learners will examine exemplary customer service skills. CONDITION: CBE Admin Assessment

KEYBOARD SPEEDBUILDING...prepares the learner with the skills to keyboard text with speed and accuracy using the "touch" method. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

LEADERSHIP AND ETHICS...prepares the learner to deal with conflict in the workplace while maintaining ethical standards. The learner will also identify leadership styles in the workplace. CONDITION: CBE Admin Assessment

POWERPOINT - LEVEL 1...introduces the student to the program by planning and creating a presentation, adding media and special effects, and applying advanced formatting to objects. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

PROFESSIONALISM AND WORK SKILLS...prepares the learner to communicate effectively while developing and discussing critical work skills such as time and stress management, critical thinking, listening, and organization. CONDITION: CBE Admin Assessment

WEB 2.0 FOR BUSINESS...provides a basic understanding of the web as well as the tools used to create blogs, web videos, and social media accounts for business use. Reviews social web tools and components. CONDITION: CBE Admin Assessment

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

WORD - LEVEL 2...introduces the student to multi-column documents, templates, and the mail merge feature while applying WordArt, themes, styles, quick parts, and other advanced document formatting features. COREQUISITE: 10103191 Word -Level 1 or equivalent and CONDITION: CBE Software Learning Center Assessment or CONDITION: CBE Admin Assessment



OPHTHALMIC MEDICAL ASSISTANT

Program Number 31-516-4 **Technical Diploma** • Three Terms

ABOUT THE PROGRAM

The Ophthalmic Medical Assistant program allows students to work at their own pace to gain the skills and knowledge necessary for employment in ophthalmic practices, optometric practices, and retail optical settings. Students apply technical skills to perform prescreening and specialty testing, assist with dispensing glasses and contact lenses, and perform office management duties including maintaining patient information, and billing and insurance processes.

PROGRAM OUTCOMES

- Apply technical skills to perform eye care prescreening and specialty testing procedures on patients accurately and efficiently.
- · Apply technical skills to educate and assist patients with glasses and/or contact lenses to meet their eye health and visual needs.
- · Perform business office procedures such as maintaining appointment schedules, maintaining patient records, processing insurance reimbursement, and billing patients.
- Demonstrate professional ethics, honesty, and respect when dealing with doctors, patients, and co-workers.
- · Communicate clearly and professionally in both written and oral formats.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

To complete the clinical portion of this program, site specific health and immunization documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | . Class Title | Credit(s) |
|-------------|------------------------------|-----------|
| | Term 1 | |
| 31501309 | Medical Terminology - Part 1 | 1 |
| 31501310 | Medical Terminology - Part 2 | 1 |
| 31501311 | Medical Terminology - Part 3 | 1 |
| 31509311 | Human Body - Part 1 | 1 |
| 31509312 | Human Body - Part 2 | 1 |
| 31509313 | Human Body - Part 3 | 1 |
| | | 6 |

Term 2

| 31516320 | Basic Optical Concepts | 1 |
|----------|-------------------------------|----|
| 31516316 | Frame Characteristics | 1 |
| 31516318 | Ophthalmic Lens Selections | 1 |
| 31516317 | Eyewear Adjustment | 1 |
| 31516319 | Frame Styling and Purchasing | 1 |
| 31516321 | Lens Power and Protection | 1 |
| 31516322 | Compare Multifocal Lenses | 1 |
| 31516349 | Ophthalmic Prism | 1 |
| 31516331 | Front Desk and Patient Triage | 1 |
| 31516351 | Administration Clinical | 1 |
| 31509316 | Medical Law - Part 1 | 1 |
| 31509317 | Medical Law - Part 2 | 1 |
| 31501305 | Pharmacology - Part 1 | 1 |
| 31501306 | Pharmacology - Part 2 | 1 |
| | | 14 |
| | | |

Term 3

| 31516307 | Ocular Diseases and Treatment | 1 |
|----------|-------------------------------|----|
| 31516332 | Patient History and Vision | 1 |
| 31516333 | Functional Vision | 1 |
| 31516334 | Refractometry | 1 |
| 31516308 | Cornea Evaluation | 1 |
| 31516309 | Tear Evaluation | 1 |
| 31516352 | Patient Pre-testing Clinical | 1 |
| 31516341 | Intraocular Pressure | 1 |
| 31516342 | Specialty Glaucoma Testing | 1 |
| 31516336 | Soft Contact Lens Wear | 1 |
| 31516337 | Rigid Contact Lens Wear | 1 |
| 31516344 | Specialty Tests and Education | 1 |
| | - | 12 |
| | | |

TOTAL 32

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ADMINISTRATION CLINICAL...prepares the learner to demonstrate practice administration. COREQUISITES: 31516331 Front Desk and Patient Triage and 31516317 Eyewear Adjustment

BASIC OPTICAL CONCEPTS...prepares the learner to evaluate basic optical concepts.

COMPARE MULTIFOCAL LENSES...prepares the learner to measure and compare multifocal lenses.

CORNEA EVALUATION ... prepares the learner to evaluate the cornea.

EYEWEAR ADJUSTMENT...prepares the learner to demonstrate eyewear alignment and adjustment.

FRAME CHARACTERISTICS...prepares the learner to assess frame characteristics.

FRAME STYLING AND PURCHASING...prepares the learner to demonstrate frame styling and purchasing while operating a dispensary.

FRONT DESK AND PATIENT TRIAGE...prepares the learner to investigate front desk responsibilities and role in patient triage.

FUNCTIONAL VISION ... prepares the learner to measure functional vision.

HUMAN BODY - PART 1...prepares the learner to explore the structural organization of the human body by analyzing the causes, signs, symptoms, diagnosis, treatment and prevention of diseases and disorders of the digestive system, urinary system, reproductive system, nervous system

HUMAN BODY - PART 2...prepares the learner to analyze the causes, signs, symptoms, diagnosis, treatment and prevention of diseases and disorders of the cardiovascular system, respiratory system, lymph and immune system. COREQUISITE: 31509311 Human Body - Part 1.

HUMAN BODY - PART 3...prepares the learner to analyze the causes, signs, symptoms, diagnosis, treatment and prevention of diseases and disorders of the musculoskeletal system, integumentary system, special senses, and endocrine system. COREQUISITE: 31509312 Human Body -Part 2

INTRAOCULAR PRESSURE...prepares the learner to measure intraocular pressure.

LENS POWER AND PROTECTION...prepares the learner to measure ophthalmic lens power and the importance of ocular protection.

MEDICAL LAW - PART 1...prepares the learner to explain ethical and legal principles as they apply to medical legislation and regulation.

MEDICAL LAW - PART 2...prepares the learner to create policies and procedures of a medical organization that follows the AAMA guidelines. COREQUISITE: 31509316 Medical Law - Part 1.

MEDICAL TERMINOLOGY - PART 1...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of integumentary, respiratory, and urinary systems, as well as systemic and surgical terminology.

MEDICAL TERMINOLOGY - PART 2...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of reproductive systems, cardiovascular system, and the lymphatic and immune systems as well as systemic and surgical terminology. COREQUISITE: 31501309 Medical Terminology Part 1

MEDICAL TERMINOLOGY - PART 3...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of digestive, skeletal, muscular, sensory, nervous, and endocrine as well as systemic and surgical terminology. COREQUISITE: 31501310 Medical Terminology Part 2

OCULAR DISEASES AND TREATMENT...prepares the learner to differentiate ocular diseases, pharmaceuticals and therapeutics.

OPHTHALMIC LENS SELECTIONS...prepares the learner to compare ophthalmic lens selections.

OPHTHALMIC PRISM...prepares the learner to measure ophthalmic prism and its ocular purpose.

PATIENT HISTORY AND VISION...prepares the learner to collect baseline patient history and visual acuity.

PATIENT PRE-TESTING CLINICAL...prepares the learner to demonstrate patient pre-testing. PREREQUISITE: 31516351 Administration Clinical.

PHARMACOLOGY - **PART** 1...prepares the learner to apply pharmacology principles to therapeutic medications used to treat musculoskeletal, endocrine, nervous, integumentary, sensory, mental, and behavior health systems.

PHARMACOLOGY - PART 2...prepares the learner to apply pharmacology principles to therapeutic medications used to treat gastrointestinal, cardiovascular, respiratory, urinary, reproductive, lymphatic, immune systems and blood. COREQUISITE: 31501305 Pharmacology - Part 1.

REFRACTOMETRY...prepares the learner to measure refractive error.

RIGID CONTACT LENS WEAR...prepares the learner to justify rigid contact lens wear.

SOFT CONTACT LENS WEAR...prepares the learner to justify soft contact lens wear.

SPECIALTY GLAUCOMA TESTING...prepares the learner to assess specialty glaucoma testing.

SPECIALTY TESTS AND EDUCATION...prepares the learner to demonstrate specialty testing and patient education. COREQUISITE: 31516352 Patient Pre-testing Clinical.

TEAR EVALUATION ... prepares the learner to evaluate tear quality.



PARAMEDIC TECHNICIAN

Program Number 10-531-1 Associate Degree in Applied Science • Varies

ABOUT THE PROGRAM

Life can bring about unfortunate events of medical or traumatic emergency; a Paramedic is a highly trained and skilled medical professional ready to assist those in need. Paramedics integrate Advanced Life Support treatment measures into the challenging acute care environment. The Associate Degree Paramedic (ADP) is the individual that has exceeded minimum professional requirements and has furthered their education beyond the entry level technical diploma to gain additional knowledge and capabilities to better serve their region.

PROGRAM OUTCOMES

- · Prepare for incident response and EMS operations.
- Integrate pathophysiological principles and assessment findings to provide appropriate patient care.
- Demonstrate paramedic skills associated with established standards and procedures for a variety of patient encounters.
- · Communicate effectively with others.
- · Demonstrate professional behavior.
- Meet state and national competency listed for paramedic certification(s).

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/futurestudents/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Complete EMT license verification form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to discuss motor vehicle record, plan your first semester schedule, review your entire plan of study, and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuitionand-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Students successfully completing Terms 1, 2, and 3 coursework of the program are able to sit for the National Registry Paramedic exam. The remaining general education and science courses can be completed afterwards to complete the Associate Degree requirements for graduation. The Lakeshore Technical College Paramedic Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Committee on Accreditation of Educational Programs for the Emergency Medical Services Professions (CoAEMSP). 25400 US Highway 19 N., Suite 158, Clearwater, FL 33756. Phone: 727-210-2350. Web: www.caahep.org.

Lakeshore Technical College's Paramedic Technician program prepares students to obtain the required licensure to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examination, or licensure for other states.

To complete the clinical portion of this program, site specific health and immunizataion documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. Class Title | Credit(s) |
|-------------------------|-----------|
| Torm 1 (Spring) | |

| | Term 1 (Spring) | |
|----------|----------------------------------------|--|
| 10531911 | EMS Fundamental | |
| 10531912 | Paramedic Medical Principles | |
| 10531913 | Advanced Patient Assessment Principles | |
| 10531914 | Advanced Pre-Hospital Pharmacology | |
| 10531915 | Paramedic Respiratory Management | |
| 10531916 | Paramedic Cardiology I | |
| 10531926 | Paramedic Essentials 1 | |
| 10531930 | Paramedic Clinical I | |

Term 2 (Summer)

| 10531932 | Paramedic Cardiology 2 | 3 |
|----------|----------------------------------|----|
| 10531918 | Advanced Emergency Resuscitation | 1 |
| 10531922 | EMS Operations | 1 |
| 10531920 | Paramedic Trauma | 3 |
| 10531928 | Paramedic Clinical 2 | 2 |
| 10531927 | Paramedic Essentials 2 | 1 |
| | | 11 |

Term 3 (Fall)

| 10531919 | Medical Emergencies | 4 |
|----------|-----------------------------|----|
| 10531921 | Special Patient Populations | 3 |
| 10531923 | Paramedic Capstone | 1 |
| 10531933 | Paramedic Essentials 3 | 1 |
| 10531929 | Paramedic Field Clinical | 2 |
| 10531931 | Paramedic Internship | 1 |
| | - | 12 |

Term 4

| 1000/107 | College Methomatics | 3 |
|----------|------------------------------|----|
| 10804107 | College Mathematics | 3 |
| 10806177 | General Anatomy & Physiology | 4 |
| 10801195 | Written Communication | 3 |
| 10809198 | Introduction to Psychology | 3 |
| | | 13 |

Term 5

| 10806179 | Advanced Anatomy & Physiology | 4 |
|----------|----------------------------------|---|
| 10801196 | Oral/Interpersonal Communication | 3 |
| | | |

TOTAL 60

2

4

3

3

2

1

1

1

17

To contact CoAEMSP: 8301 Lakeview Parkway Suite 111-312 Rowlett TX 75088 214-703-8445 Fax 214-703-8992 www.coaemsp.org

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ADVANCED ANATOMY AND PHYSIOLOGY...is the second semester in a twosemester sequence in which normal human anatomy and physiology are studied using a body systems approach with emphasis on the interrelationships between form and function at the gross and microscopic levels of organization. Instructional delivery within a classroom and laboratory setting. Experimentation within a science lab will include analysis of cellular metabolism, the individual components of body systems such as the nervous, neuromuscular, cardiovascular, and urinary. Continued examination of homeostatic mechanisms and their relationship to fluid, electrolyte, acid-base balance and blood. Integration of genetics to human reproduction and development are also included in this course. PREREQUISITE: 10806177 General Anatomy & Physiology or equivalent

ADVANCED EMERGENCY RESUSCITATION...provides ACLS and PALS knowledge and skills preparing the student in the integration of comprehensive knowledge of causes and pathophysiology into the management of shock, respiratory failure, respiratory arrest, cardiac arrest, and peri-arrest with intervention to prevent respiratory and/or cardiac arrest if possible. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531916 Paramedic Cardiology

ADVANCED PATIENT ASSESSMENT PRINCIPLES...provides knowledge of scene and patient assessment findings with knowledge of epidemiology and pathophysiology to form a field impression. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531912 Paramedic Medical Principles

ADVANCED PRE-HOSPITAL PHARMACOLOGY...provides student with comprehensive knowledge of pharmacology required to formulate and administer a pharmacological treatment plan intended to mitigate emergencies and improve the health of the patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531913 Advanced Patient Assessment Principles

COLLEGE MATHEMATICS...is designed to review and develop fundamental concepts of mathematics pertinent to the areas of: 1) arithmetic and algebra; 2) geometry and trigonometry; and 3) probability and statistics. Special emphasis is placed on problem solving, critical thinking and logical reasoning, making connections, and using calculators. COREQUISITE: Math placement assessment or equivalent

EMS FUNDAMENTAL...provides comprehensive knowledge of EMS systems, safety, well-being, legal issues and ethical issues with intended outcome of improving EMS personnel, patients and the community. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and PREREQUISITES: 10531102 EMT Basic or 30531301 EMT Part 1 or EMT WI License

EMS OPERATIONS...provides the knowledge of operational roles and responsibilities to ensure patient, public and EMS personnel safety. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

GENERAL ANATOMY AND PHYSIOLOGY...examines basic concepts of human anatomy and physiology as they relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision-making and professional communication with colleagues and patients. PREREQUISITE: 10806134 General Chemistry or Equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

MEDICAL EMERGENCIES...provides the student the skills to integrate assessment findings with priciples of anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and implement a treatment plan for an acutely injured patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PARAMEDIC CAPSTONE...provides the final opportunity to incorporate knowledge and skills through labs and scenario-based practice and evaluations prior to taking the NREMT written and practical exams. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or105312 Fire Medic program requirements met and COREQUISITE: 10531922 EMS Operations

PARAMEDIC CARDIOLOGY 1...provides the principles of cardiovascular anatomy, physiology, epidemiology, and pathophysiology to formulate a field impression and a plan for a patient with a cardiovascular complaint. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531915 Paramedic Respiratory Management PARAMEDIC CARDIOLOGY 2...continues the paramedic's knowledge of cardiology. Incorporates basic and advanced electrocardiogram rhythm interpretation as well as introduces students to Advanced Cardiovascular Life Support (ACLS).

PARAMEDIC CLINICAL 1...allows paramedics their first experiences providing advanced level skills and assessments on patients in a healthcare setting. Students will be assigned to an area hospital to begin their clinical training and meeting their assigned clinical competencies. Activities may include rotations within hospital emergency departments, operating rooms, intensive care units, and/or rotations with lab or respiratory staff. COREQUISITE: 10531911 EMS Fundamentals and CONDITION: 105311 Paramedic Tech or105312 Fire Medic or 315311 EMT Paramedic program admission requirements met

PARAMEDIC CLINICAL 2...provides student with the opportunity to enhance their learning through the skills practice in a health care environment experience with actual patients under the supervision of approved preceptors or high-fidelity human patient simulator. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531930 Paramedic Clinical 1

PARAMEDIC ESSENTIALS 1...reinforces student learning through practice of paramedicine in a controlled supervised environment utilizing hands on skills performed on simulated live patients and high-fidelity manikins and anatomy models. The student will apply assessment and skill knowledge while demonstrating paramedic level skills in a variety of scenarios and environments.

PARAMEDIC ESSENTIALS 2...reinforces student learning through practice of paramedicine in a controlled supervised environment utilizing hands on skills performed on simulated live patients and high-fidelity manikins and anatomy models. The student will evaluate patient presentations in short scenarios, formulate and reassess treatment plans while performing skills need to carry out patient treatments. Students will participate in learning and demonstrate first responder health and wellbeing during this section. CONDITION: 105311 Paramedic Technician or 105312 Fire Medic or 315311 EMT Paramedic program admission requirements met

PARAMEDIC ESSENTIALS 3...provides a continued growth in patient assessment, treatment plans and skills working toward the mastery of paramedic level patient care. The focus of this sections will include complete patient care, team management, responder health and wellbeing, and daily operations. Students will demonstrate mastery of knowledge and skills in classroom activities and extended scenarios.

PARAMEDIC FIELD CLINICAL...provides student with the opportunity to enhance their learning through the practice in the prehospital environment with actual patients under the supervision of approved preceptors. Students will be assigned to an area Paramedic ambulance service provider to incorporate their previously acquired capabilities into prehospital patient care. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic Program Requirements Met and COREQUISITE: 10531918 Advanced Emergency Resuscitation

PARAMEDIC INTERNSHIP...demonstrates to paramedic students their team leadership capabilities while assessing, forumulating treatments plans, and delegating tasks to their EMS team members. Students will be assigned to an area paramedic ambulance service to complete requirements during this capstone field internship.

PARAMEDIC MEDICAL PRINCIPLES...provides the knowledge of anatomy, physiology and pathophysiology of major human systems while also introducing the students to shock, immunology and bleeding. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531911 EMS Fundamentals

PARAMEDIC RESPIRATORY MANAGEMENT...provides specific knowledge pertaining to the respiratory system and to ensure the student is prepared to formulate a field impression and implement a comprehensive treatment plan for a respiratory complaint. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531914 Advanced Prehospital Pharmacology

PARAMEDIC TRAUMA...provides the student the skills to integrate assessment findings with principles of anatomy, physiology, epidemiology and pathophysiology to formulate a field impression and implement a treatment plan for an acutely injured patient. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met

SPECIAL PATIENT POPULATIONS...provides the student the skills to integrate assessment findings with principles of antomy, physiology, epidemiology and pathophysiology to formulate a field impression and implement a treatment plan for patient with special needs. CONDITION: 105311 Paramedic Technician or 315311 EMT Paramedic or 105312 Fire Medic program requirements met and COREQUISITE: 10531920 Paramedic Trauma

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



PATIENT SERVICES SPECIALIST

Program Number 61-509-2 Certificate • 7 credits

ABOUT THE PROGRAM

The Patient Services Specialist Certificate prepares students to perform medical support duties using specific knowledge of medical terminology, customer service, and technology within a hospital, clinic, or laboratory. Duties may include scheduling appointments, billing patients, compiling and recording medical charts, reports and correspondence as well as schedule and confirm patient diagnostic appointments, surgeries, or medical consultations.

PROGRAM OUTCOMES

- · Communicate professionally with clients, families and co-workers
- · Perform basic computer functions utilized in the healthcare setting
- Demonstrate understanding of medical terminology and the language of medicine

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- · Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

• Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu Catalog No. Class Title

COURSES

| 31501302 | Medical Terminology | 3 |
|----------|---------------------------------|---|
| 31501304 | Culture of Healthcare | 2 |
| 31501307 | Digital Literacy for Healthcare | 2 |
| | | |

TOTAL 7

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

CULTURE OF HEALTHCARE...is an introduction to the culture of healthcare for students interested in working in various healthcare settings. Learners examine professionalism, interpersonal and written communication skills, problem-solving skills, patient privacy, and confidentiality issues as they relate to healthcare.

DIGITAL LITERACY FOR HEALTHCARE...focuses on the use of technology in healthcare. Learners use common business software applications, including word processing, presentation, spreadsheet, and databases. Communication methods using technology are addressed. Learners gain experience with using the electronic health record (EHR). Healthcare EHR security issues, social media use, and digital healthcare resources are examined.

MEDICAL TERMINOLOGY...focuses on the component parts of medical terms: prefixes, suffixes and word roots. Students practice formation, analysis and reconstruction of terms. Emphasis on spelling, definition and pronunciation. Introduction to operative, diagnostic, therapeutic and symptomatic terminology of all body systems, as well as systemic and surgical terminology.



PHARMACY SERVICES MANAGEMENT

Program Number 10-536-1 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

The Associate Degree in Pharmacy Services Management prepares individuals to advance their roles as Pharmacy Technicians or to transition into related roles in the workplace. Pharmacy Technicians are able to provide a wide range of duties in the pharmacy, and will enhance their technical skills through additional knowledge in third party payment processing and related reimbursement issues, staff scheduling processes, customer service, and enhancing store sales. Marketing, management, and business operations are also introduced in this degree. The program culminates in a capstone course that provides the student with the opportunity to apply their education to a real-life situation through increasing store sales, creating efficient operations, improving management practices, or enhancing service to patients. Graduates will find positions as Senior Pharmacy Technicians, Assistant Store Managers, Trainers, Pharmacy Technician Managers, and many related positions in hospital or retail pharmacies or related organizations. This program is offered in a partial Competency-Based Education (CBE) format, which allows students to work at their own pace.

PROGRAM OUTCOMES

- · Perform all pharmacy technician functions.
- · Incorporate into practice professional ethics, laws, regulations, and policies established by the licensing state and regulatory agencies (Pharmacy Examining Board, FDA, DEA).
- Pursue lifelong professional growth and development through self-directed learning, participation in professional organizations, and continuing education.
- · Maintain an awareness of developments in the pharmacy and management fields as they relate to job responsibilities.
- Manage human resources and employee development.
- Resolve conflict and build teams.
- · Implement a mission and goals.
- · Demonstrate critical thinking and problem solving skills.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/futurestudents/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Pharmacy Technician Program Handbook form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/ tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

To complete the clinical portion of this program, site specific health and immunization documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog | No | Class | Title |
|---------|----|-------|-------|
| | | | |

16

16

Term 1

| 10536207 | Introduction to Pharmacy Part 1* | 1 |
|----------|----------------------------------------|---|
| 10536208 | Introduction to Pharmacy Part 2* | 1 |
| 10536209 | Introduction to Pharmacy Part 3* | 1 |
| 10536120 | Fundamentals of Reading Prescriptions | 1 |
| 10536200 | Pharmaceutical Calculations Part 1* | 1 |
| 10536201 | Pharmaceutical Calculations Part 2* | 1 |
| 10536202 | Pharmaceutical Calculations Part 3* | 1 |
| 10536116 | Federal Pharmacy Law* | 1 |
| 10536111 | Introduction to Pharmacology* | 1 |
| 10536121 | Body Systems and Corresponding Drug | 1 |
| | Therapies* | |
| 10536127 | Pharmacology and Multisystems* | 1 |
| 10536204 | Introduction to Parenteral Admixtures* | 1 |
| 10536205 | Compounding Sterile Preparations* | 1 |
| 10536206 | Hazardous Drug Preparation and Quality | 1 |
| | Management* | |
| 10536210 | Pharmacy Clinical | 2 |
| | | |

Term 2

| 10501115 | Medical Terminology - Part 1* | 1 |
|----------|----------------------------------------------|---|
| 10501116 | Medical Terminology - Part 2* | 1 |
| 10501117 | Medical Terminology - Part 3* | 1 |
| 10501118 | Health Insurance Claims, Concepts and | 1 |
| | Processes* | |
| 10501119 | Health Insurance and Managed Care* | 1 |
| 10501120 | Health Insurance Coding and | 1 |
| | Reimbursement Procedures* | |
| 10536117 | Wisconsin Pharmacy Law* | 1 |
| 10536211 | Pharmacy Drug Distribution and Outpatient | 1 |
| | Practice* | |
| 10536212 | Pharmacy Drug Distribution and Inpatient | 1 |
| | Practice* | |
| 10801196 | Oral/Interpersonal Communication | 3 |
| 10536213 | Medication Profile Systems* | 1 |
| 10536214 | Prescription Processing and Patient Records* | 1 |
| 10536215 | Pharmacy Clinical Advanced | 2 |
| | | |

Torm 3

| 10104102 | Principles of Marketing OR 10182108 | 3 |
|----------|----------------------------------------|----|
| | Purchasing | |
| 10801195 | Written Communication OR 10801141 | 3 |
| | Introduction to Mass Communications OR | |
| | 10801136 English Composition 1 | |
| 10809198 | Introduction to Psychology | 3 |
| 10809195 | Economics | 3 |
| 10806112 | Principles of Sustainability | 3 |
| 10103121 | Excel - Level 1 | 1 |
| | | 16 |
| | | |

Term 4

| 10182102 | Service Operations Management OR | 3 |
|----------|----------------------------------------------|---|
| | 10102110 Introduction to Business | |
| 10196191 | Supervision | 3 |
| 10536216 | Pharmacy Leadership | 1 |
| 10536217 | Pharmacy Management | 1 |
| 10536218 | Pharmacy Compliance | 1 |
| 10809166 | Introduction to Ethics: Theory & Application | 3 |
| | OR 10809172 Introduction to Diversity | |
| | Studies | |
| | | |

12

TOTAL 60

* Denotes CBE classes

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BODY SYSTEMS AND CORRESPONDING DRUG THERAPIES...enhances the learner's ability to act and react appropriately in the pharmacy by learning how drugs work through examination of the anatomy, physiology, pathophysiology, and drug therapy for each of the major body systems.

COMPOUNDING STERILE PREPARATIONS...provides the learner with the knowledge and skills to utilize aseptic technique to prepare sterile medications to be administered intravenously, intramuscularly, subcutaneously, and intradermally to patients.

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks. CONDITION: CBE SLC Assessment or CONDITION: CBE Admin Assessment

FEDERAL PHARMACY LAW...introduces the learner to federal regulations that apply to pharmacy practice.

FUNDAMENTALS OF READING PRESCRIPTIONS...prepares the learner to work in a community or hospital pharmacy by exploring the role of a pharmacy technician within the healthcare team and identifying each step in the prescription filling process; and identifying the key top 200 drugs by brand and generic name and therapeutic class. CONDITION: 315361 Pharmacy Tech or 105361 Pharmacy Serv Mng admission reqs met and Rdg placement assessment equiv

HAZARDOUS DRUG PREP AND QUALITY MANAGEMENT...introduces the learner to hazardous drug handling and preparation, quality management, operations, and emergency preparedness.

HEALTH INSURANCE CODING AND REIMBURSEMENT PROCEDURE... students will explore with the basic principles of ICD-10 diagnostic coding structures, HCPCS Level II coding, as well as procedural coping (CPT). Additionally, students will examine concepts of patient management as they relate to the billing cycle, and key principles to submitting successful claims.

HEALTH INSURANCE AND MANAGED CARE...students will examine managed care and explore various federal insurance programs, in addition to various disability and compensation programs.

HEALTH INSURANCE CLAIMS, CONCEPTS, PROCESSES...students will examine the evolution of health insurance in the United States, as well as explore various types of insurance and eligibility requirements; insurance claims processing concepts; and health insurance benefits.

INTRODUCTION TO ETHICS: THEORY AND APPLICATION...provides a basic understanding of the theoretical foundations of ethical thought. Diverse ethical perspectives will be used to analyze and compare relevant issues. Students will critically evaluate individual, social and/ or professional standards of behavior, and apply a systematic decision-making process to these situations. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO PARENTERAL ADMIXTURES...introduces the learner to a septic technique, infection control, and parenteral medication administration.

INTRODUCTION TO PHARMACOLOGY...introduces the learner to pharmacology, medications in the body, and major body systems.

INTRODUCTION TO PHARMACY PART 1...prepares the learner to utilize pharmaceutical business terminology, customer service, inventory control systems, reference materials, and ethics related to the practice of pharmacy.

INTRODUCTION TO PHARMACY PART 2...prepares the learner to process and prepare prescriptions and compounds and introduces learner to the various factors affecting drug activity. INTRODUCTION TO PHARMACY PART 3...expands the learner's knowledge of various

pharmacy practice settings.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

MEDICAL TERMINOLOGY - PART 1...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of integumentary, respiratory, and urinary systems, as well as systemic and surgical terminology.

MEDICAL TERMINOLOGY - PART 2...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of reproductive systems, cardiovascular system, and the lymphatic and immune systems as well as systemic and surgical terminology. COREQUISITE: 31501309 Medical Terminology Part 1

MEDICAL TERMINOLOGY - PART 3...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of digestive, skeletal, muscular, sensory, nervous, and endocrine as well as systemic and surgical terminology. COREQUISITE: 31501310 Medical Terminology Part 2 MEDICATION PROFILE SYSTEMS...reinforces the learner's ability to enter and update patient, practitioner, and prescription information into a pharmacy software database.

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PHARMACEUTICAL CALCULATIONS PART 1...introduces the learner to the metric system, common measures, ratio and proportion, and drug orders and calculating relating to the practice of pharmacy.

PHARMACEUTICAL CALCULATIONS PART 2...prepares the learner to enlarge and reduce formulas, and solve dilution, alligations and concentrations.

PHARMACEUTICAL CALCULATIONS PART 3...prepares the learner to calculate solutions and reconstitute dry powders.

PHARMACEUTICAL CALCULATIONS PART 3...prepares the learner to calculate solutions and reconstitute dry powder.

PHARMACOLOGY AND MULTISYSTEMS...enhances the learner's ability to act and react appropriately in the pharmacy by learning how drugs work through examination of the anatomy, physiology, pathophysiology, and drug therapy for multi-systems.

PHARMACY CLINICAL...provides hands-on experience in a pharmacy for 108 hours. Areas of instruction include interpretation of prescriptions, maintaining patient profiles, correctly preparing, packaging, and labeling prescriptions, billing patient and third parties, customer service, purchasing, checking in deliveries, inventory control, compounding, and patient confidentiality. COREQUISITES: 10536120 Fundamentals of Reading Prescriptions and 10536200 Pharmaceutical Calculations Part 1 and 10536201 Pharmaceutical Calculations Part 2 and 10536202 Pharmaceutical Calculations Part 3 or 1053610 Pharmaceutical calculations

PHARMACY CLINICAL ADVANCED...provides hands-on experience in a pharmacy for 108 hours. Areas of instruction include interpretation of prescriptions, maintaining patient profiles, correctly preparing, packaging, and labeling prescriptions, billing patient and third parties, customer service, purchasing, checking in deliveries, inventory control, compounding, and patient confidentiality. PREREQUISITE: 10536210 Pharmacy Clinical

PHARMACY COMPLIANCE...allows the learner to integrate skills related to compliance and apply them to the pharmacy workplace.

PHARMACY DRUG DISTRIBUTION AND INPATIENT PRACTICE...introduces the learner to the basic drug distribution systems used in institutional pharmacy, including automation technology and pharmacist and pharmacy technician roles.

PHARMACY DRUG DISTRIBUTION AND OUTPATIENT PRACTICE...introduces the learner to the basic drug distribution systems used in community pharmacy, including automation technology and pharmacist and pharmacy technician roles.

PHARMACY LEADERSHIP...allows the learner to integrate skills related to the principles and characteristics of leadership and apply them to the pharmacy workplace.

PHARMACY MANAGEMENT...allows the learner to integrate skills related to the principles and characteristics of effective pharmacy management and apply them to the pharmacy workplace.

PRESCRIPTION PROCESSING AND PATIENT RECORDS...expands the learner's ability to enter prescription orders and familiarizes learner with a variety of pharmacy software database features, including billing, updating patient records, medication reconciliation, and generating reports.

PRINCIPLES OF MARKETING...introduces the student to the consumer decision process model, the bases used to segment a market, basic concepts about goods, services, and ideas, the nature of supply chain and distribution, integrated marketing communications, and the stages of the product life cycle and their impact on the marketing mix.

PRINCIPLES OF SUSTAINABILITY...prepares students to develop sustainable literacy, analyze interconnections among physical and biological sciences and environmental systems, summarize effects of sustainability on health and well-being, analyze connections among social, economic, and environmental systems, employ energy conservation strategies to reduce use of fossil fuels, investigate alternative energy options, evaluate options to current waste disposal/ recycling in the U.S., and analyze approaches used by your community. COREQUISITE: Reading placement assessment or equivalent

SERVICE OPERATIONS MANAGEMENT...introduces the student to the basic coverage of the concepts and current issues in service operation management. Topics include the value equation in operations management; understanding services; building the service system; operating the service system; enterprise resource management (ERP) and supply chain management concepts in the service sector.

SUPERVISION...allows the learner to apply the skills and tools necessary to perform the functions of a frontline leader. Students learn the application of strategies and transition to a contemporary supervisory role including day-to-day operations, controlling, staffing, leadership, problem-solving, team skills, motivation, and training.

WISCONSIN PHARMACY LAW...introduces the learner to state regulations that apply to pharmacy practice. CONDITION: CBE Assessment

WRITTEN COMMUNICATION...teaches the writing process, which includes prewriting, drafting, revising, and editing. Through a variety of writing assignments, the student will analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Keyboarding skills are required for this course. It also develops critical reading and thinking skills through the analysis of a variety of written documents. COREQUISITE: Writing placement assessment or equivalent AND Reading placement assessment or equivalent



PHARMACY TECH

Program Number 30-536-2 **Technical Diploma • One Term**

ABOUT THE PROGRAM

If you are ill or have a medical condition, you have access to an enormous variety of therapeutic medications, and you trust your pharmacy to correctly interpret and fill your prescriptions. Pharmacy technicians contribute to our safety by assisting pharmacists in a variety of technical tasks. If you are attentive to detail, organized, a good communicator, and like math, science, and working with people, a career as a pharmacy technician may be your prescription for success. This program is offered in a Competency-Based Education (CBE) format, which allows students to work at their own pace.

PROGRAM OUTCOMES

- Demonstrate personal/interpersonal knowledge and skills in the practice of pharmacy.
- · Demonstrate foundational professional knowledge and skills for the practice of pharmacy.
- Prepare prescriptions/medication orders and pharmaceutical products for dispensing, distribution, and disposal.
- · Compound sterile and nonsterile medications.
- · Follow established policies and procedures for procurement, billing, reimbursement, and inventory management.
- Utilize pharmacy technology and informatics.
- Adhere to state and federal regulations governing the practice of pharmacy.
- Apply the principles of quality assurance to the practice of pharmacy.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/futurestudents/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Pharmacy Tech Program Handbook form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/ financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

- · Graduates of the program will be eligible to sit for the Pharmacy Technician Certification Board exam.
- Must have reliable internet service.
- · Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.
- To complete the clinical portion of this program, site specific health and immunization documentation will be required.

RELATED PROGRAMS

Pharmacy Services Management Associate Degree

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| talog No. Class Title | Credit(s) |
|-----------------------|-----------|
| Term 1 | |

Ca

| 10536207 | Introduction to Pharmacy Part 1 | 1 |
|----------|----------------------------------------|---|
| 10536208 | Introduction to Pharmacy Part 2 | 1 |
| 10536209 | Introduction to Pharmacy Part 3 | 1 |
| 10536120 | Fundamentals of Reading Prescriptions | 1 |
| 10536200 | Pharmaceutical Calculations Part 1 | 1 |
| 10536201 | Pharmaceutical Calculations Part 2 | 1 |
| 10536202 | Pharmaceutical Calculations Part 3 | 1 |
| 10536116 | Federal Pharmacy Law | 1 |
| 10536111 | Introduction to Pharmacology | 1 |
| 10536121 | Body Systems and Corresponding Drug | 1 |
| | Therapies | |
| 10536127 | Pharmacology and Multisystems | 1 |
| 10536204 | Introduction to Parenteral Admixtures | 1 |
| 10536205 | Compounding Sterile Preparations | 1 |
| 10536206 | Hazardous Drug Preparation and Quality | 1 |
| | Management | |
| 10536210 | Pharmacy Clinical | 2 |
| | | |

TOTAL 16

BODY SYSTEMS AND CORRESPONDING DRUG THERAPIES...enhances the learner's ability to act and react appropriately in the pharmacy by learning how drugs work through examination of the anatomy, physiology, pathophysiology, and drug therapy for each of the major body systems.

COMPOUNDING STERILE PREPARATIONS...provides the learner with the knowledge and skills to utilize aseptic technique to prepare sterile medications to be administered intravenously, intramuscularly, subcutaneously, and intradermally to patients.

FEDERAL PHARMACY LAW...introduces the learner to federal regulations that apply to pharmacy practice.

FUNDAMENTALS OF READING PRESCRIPTIONS...prepares the learner to work in a community or hospital pharmacy by exploring the role of a pharmacy technician within the healthcare team and identifying each step in the prescription filling process; and identifying the key top 200 drugs by brand and generic name and therapeutic class. CONDITION: 315361 Pharmacy Technician or 105361 Pharmacy Services Management admission requirements met and Reading placement assessment equivalent

HAZARDOUS DRUG PREP AND QUALITY MANAGEMENT...introduces the learner to hazardous drug handling and preparation, quality management, operations, and emergency preparedness.

INTRODUCTION TO PARENTERAL ADMIXTURES...introduces the learner to aseptic technique, infection control, and parenteral medication administration.

INTRODUCTION TO PHARMACOLOGY...introduces the learner to pharmacology, medications in the body, and major body systems.

INTRODUCTION TO PHARMACY PART 1... prepares the learner to utilize pharmaceutical business terminology, customer service, inventory control systems, reference materials, and ethics related to the practice of pharmacy.

INTRODUCTION TO PHARMACY PART 2... prepares the learner to process and prepare prescriptions and compounds and introduces learner to the various factors affecting drug activity.

INTRODUCTION TO PHARMACY PART 3...expands the learner's knowledge of various pharmacy practice settings.

PHARMACEUTICAL CALCULATIONS PART 1...introduces the learner to the metric system, common measures, ratio and proportion, and drug orders and calculating relating to the practice of pharmacy.

PHARMACEUTICAL CALCULATIONS PART 2...prepares the learner to enlarge and reduce formulas, and solve dilution, alligations and concentrations.

PHARMACEUTICAL CALCULATIONS PART 3... prepares the learner to calculate solutions and reconstitute dry powders.

PHARMACOLOGY AND MULTISYSTEMS...enhances the learner's ability to act and react appropriately in the pharmacy by learning how drugs work through examination of the anatomy, physiology, pathophysiology, and drug therapy for multisystems.

PHARMACY CLINICAL...provides hands-on experience in a pharmacy for 108 hours. Areas of instruction include interpretation of prescriptions, maintaining patient profiles, correctly preparing, packaging, and labeling prescriptions, billing patient and third parties, customer service, purchasing, checking in deliveries, inventory control, compounding, and patient confidentiality. COREQUISITES: 10536120 Fundamentals of Reading Prescriptions and 10536200 Pharmaceutical Calculations Part 1 and 10536201 Pharmaceutical Calculations Part 2 and 10536202 Pharmaceutical Calculations Part 3 or 10536110 Pharmacy Calculations

LAKESHORE TECHNICAL COLLEGE

POST-BACCALAUREATE LEGAL STUDIES/PARALEGAL

Program Number 30-110-2 Technical Diploma • Two Terms

ABOUT THE PROGRAM

Paralegals work under the supervision of lawyers in a range of tasks-researching the law; preparing for hearings; interviewing clients and witnesses; and preparing legal documents and other legal correspondence. Paralegals cannot give legal advice or represent clients in court. If you are detail-oriented, organized, strong in communication, and enjoy researching and analyzing facts, you might find a career as a paralegal very rewarding. This credential is appropriate for those persons who already have earned a bachelor's degree.

PROGRAM OUTCOMES

- Apply ethical principles in a legal environment.
- Apply critical thinking skills to address legal issues.
- · Demonstrate professionalism in a legal environment.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Submit official college transcripts for proof of bachelor's degree
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE FOR ONLINE LEARNERS

While many of the courses may be offered online, students are required to take at least ten semester credits or the equivalent of legal specialty courses through traditional classroom instruction. This requirement may be satisfied through synchronous interactive video systems, as they are considered equivalent to traditional classroom instruction.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| | Term 1 | |
|----------|--------------------------|----|
| 10110101 | | 3 |
| 10110105 | Legal Writing | 3 |
| 10110103 | Civil Litigation 2 | 3 |
| 10110168 | Criminal Law - Paralegal | 3 |
| | | 12 |
| | | |

Term 2

Catalog No. Class Title

| 10110102 | Civil Litigation 1 | 3 |
|----------|---------------------------|----|
| 10110104 | Legal Research | 3 |
| 10110106 | Family Law | 3 |
| 10110114 | Administration of Estates | 3 |
| | | 12 |

TOTAL 24

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ADMINISTRATION OF ESTATES...provides the learner with the skills to assist attorneys to administer estates, differentiate between probate and nonprobate property, contrast various forms of marital property, gather appropriate factual and financial information, select and draft appropriate forms to open an estate, prepare an inventory, draft a final accounting and documents to close an estate, draft tax documents, prepare powers of attorney and simple wills, and assist in the valid execution of estate planning documents. PREREQUISITE: 10110101 Intro to Paralegalism

CIVIL LITIGATION 1...provides the learner with the skills to evaluate causes of action and defenses; conduct an initial client interview; perform an initial investigation; draft a summons and complaint, answer, counterclaim, cross complaint, motions and supporting documents, select appropriate discovery devices; draft interrogatories and responses; prepare for depositions; draft a Notice of deposition and Subpoenas; analyze fact patterns; and evaluate evidentiary objections. PREREQUISITE: 10110101 Intro to Paralegalism

CIVIL LITIGATION 2...provides the learner with the skill to evaluate and summarize depositions; evaluate evidentiary challenges; prepare a witness list; draft settlement documents; locate expert witnesses; prepare witnesses; prepare for presentation of evidence at trial; prepare a trial notebook; draft a Bill of Costs; prepare post trial motions; evaluate and research appellate issues. PREREQUISITE: 10110102 Civil Litigation

CRIMINAL LAW-PARALEGAL...provides the learner with the skills to analyze state and federal criminal procedures, determine if a search and arrest is in accordance with the Fourth Amendment, analyze the Miranda rules, draft a criminal summons and complaint, determine possible defenses for a defendant, draft motions, analyze a criminal complaint and jury instructions for required elements, create demonstrative evidence, create a trial notebook, conduct a client interview, and contrast prosecution and defense roles. PREREQUISITE: 10110101 Intro to Paralegalism

FAMILY LAW...provides the learner with the skills to conduct an initial client interview for a family law matter, including divorce and domestic violence; draft initial pleadings for divorce, financial family law documents, divorce discovery documents, and concluding documents in divorces; assess the need for post-divorce modification and enforcement; and outline factors involving child custody and support. PREREQUISITE: 10110101 Intro to Paralegalism

INTRODUCTION TO PARALEGALISM AND LEGAL ETHICS...introduces the learner to the paralegal profession, including civil, criminal, and administrative procedure; state and federal judicial systems; legal research; case briefing; ethical rules that apply to paralegals; law office software; and substantive civil law.

LEGAL RESEARCH...provides the learner with the skills to differentiate between primary or secondary authority, locate statutes and constitutional provisions, locate case law, locate administrative regulations, locate secondary authority, use correct citation form, verify and update legal authority, formulate legal issues, use effective research strategies, evaluate solutions to legal problems, and use computer-assisted and internet legal research strategies. Some classes will be held off campus in a law library. PREREQUISITE: 10110101 Intro to Paralegalism

LEGAL WRITING...provides the learner with the skills to draft legal correspondence, operative legal documents, case briefs, and legal and office memoranda; analyze and synthesize legal authority; use correct citation form; draft a civil pleading, affidavit, trial brief, and appellate brief; and apply rules of civil procedure. PREREQUISITE: 10110104 Legal Research and 10801195 Written Comm or 10801195OL Written Comm Online

AKESHORE TECHNICAL COLLEGE

PART-TIME • EVENINGS **PRACTICAL NURSING**

Program Number 31-543-1 **Technical Diploma**

ABOUT THE PROGRAM

If you're ill or injured, it's comforting to know you're in the care of highly skilled, welleducated healthcare professionals. If you work well under pressure; like math, science, communications, and problem solving; are independent; and have a strong desire to work with and help people-a career as a practical nurse may be the choice for you.

PROGRAM OUTCOMES

- · Integrate Practical Nursing identity reflecting integrity, responsibility, and nursing standards.
- · Communicate basic information using multiple sources in nursing practice.
- Utilize theoretical knowledge to participate in decision making.
- Apply the nursing process to basic client care across diverse populations.
- Function as a healthcare team member to provide safe and effective care.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer. Graduates may bridge into the Associate Degree Nursing (ADN) program by passing the PN-NCLEX and completing pre-reqs for the ADN program. The bridge pathway consists of two 1-credit courses (Bridge Skills and Bridge Clinical) taken over the summer. Students would then start the 6th semester ADN courses in fall.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Submit official high school transcripts.

*Submit college transcripts and test scores. (optional, highly recommended) College transcripts, along with test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Read the Nursing Program Handbook and submit the signed signature page.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

- Pass HESI (Health Occupations Entrance assessment) with a 70% or higher.
- Meet math requirement (Accuplacer score of 263 or equivalent)
- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/ financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

- Nursing Assistant skills must be attained/verified within one semester prior to starting clinicals.
- To complete the clinical portion of this program, site specific health and immunization documentation will be required.
- · Classes may run 4 afternoon/evenings per week and some Fridays and/or Saturdays.
- . In order to facilitate the evening hours, the theory classes will extend to a 17 week semester in the final term of the program.
- . This program has been approved by the Wisconsin Board of Nursing.
- LTC's Practical Nursing program is accredited by the Accreditation Commission for Education in Nursing, 3390 Peachtree Road N.E., Suite 1400, Atlanta, GA 30326, 404-975-5000 Fax 404-975-5020. www.acenursing.org

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | Class Title | Credit(s) |
|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| | Term 1 (Fall) Developmental Psychology Written Communication | 3 3 6 |
| 31509302 31801196 | Term 2 (Spring) Human Body in Health and Disease OR 31806 General Anatomy & Physiology (4cr) Oral/Interpersonal Communications | 6177 3 3 6 |
| 31543301 | Term 3 (Summer) Nursing Fundamentals | 2 2 |

Term 4 (Fall)

3

3

3

| 1543302 | Nursing Skills | 3 |
|---------|---------------------------------|---|
| 1543303 | Nursing Pharmacology | 2 |
| 1543304 | Nursing Intro Clinical Practice | 2 |
| | | 7 |

Term 5 (Spring)

| | Term 5 (Spring) |
|----------|-------------------------------------------|
| 31543305 | Nursing Health Alterations* |
| 31543306 | Nursing Health Promotion* |
| 31543307 | Nursing Clinical Care Across the Lifespan |
| 31543308 | Intro to Clinical Care Management |
| | |

TOTAL 31

3

3

2

2

10

*Begins prior to start of semester.

Lakeshore Technical College's Practical Nursing program prepares students to obtain the required licensure to be employed/practice in the state of Wisconsin. The College does not guarantee its curriculum matches the requirements for preparation, examination, or licensure for other states.

TIME

DEVELOPMENTAL PSYCHOLOGY..introduces the student to the study of human development throughout the lifespan. This course explores developmental theory and research with an emphasis on the interactive nature of the biological, cognitive, and psychosocial changes that affect the individual from conception to death. Application activities and critical thinking skills will enable students to gain an increased knowledge and understanding of themselves and others. COREQUISITE: 10838105 Intro Reading and Study Skills or Reading placement assessment equivalent

HUMAN BODY IN HEALTH & DISEASE...students learn to recognize human body structure and function in health and disease states. Students explore the causes, signs, and symptoms of diseases of the major body systems as well as the diagnostic procedures, usual treatment, prognosis, and prevention of diseases commonly diagnosed and treated in the medical office setting. COREQUISITE: 31501302 or 10501101 Medical Terminology and Reading placement assessment equivalent

NURSING CLINICAL CARE ACROSS THE LIFESPAN...applies nursing concepts and therapeutic interventions to clients across the lifespan. It also provides an introduction to concepts of teaching and learning. Extending care to include the family is emphasized. Student must have completed all first semester and general education courses. Course requires a minimum grade of "C" or better. Some Friday day/evening hours are required. COREQUISITE: 31543306 Nursing Health Promotion and CONDITION: 315431 Practical Nursing admission requirements met

NURSING INTRO TO CLINICAL CARE MANAGEMENT...applies nursing concepts and therapeutic nursing interventions to groups of clients across the lifespan. It also provides an introduction to leadership, management, and teambuilding. Student must have completed all first semester and general education courses. Course requires a minimum grade of "C" or better. COREQUISITE: 31543305 Nursing Health Alterations and CONDITION: 315431 Practical Nursing admission requirements met

NURSING INTRO CLINICAL PRACTICE...is an introductory clinical course that emphasizes basic nursing skills and application of the nursing process in meeting the needs of diverse clients across the lifespan. Emphasis is placed on performing basic nursing skills, the formation of nurse-client relationships, communication, data collection, documentation, and medication administration. Student needs to be admitted to the Practical Nursing program. Course requires a minimum grade of "C" or better. CONDITION: 315431 Practical Nursing Admissions Requirements Met; and COREQUISITE: 31543301 Nursing Fundamentals and 31543302 Nursing Skills and 31543303 Nursing Pharmacology

NURSING FUNDAMENTALS...focuses on basic nursing concepts to provide evidenced-based care to diverse patient populations across the lifespan. Current and historical issues impacting nursing will be explored within the scope of nursing practice. The nursing process will be introduced as a framework for organizing the care of patients. This course requires a minimum grade of "C" or better. PREREQUISITES: 31806177 Gen A & P or 31509302 Hum Body Hith Disease, 31809188 Developmental Psych, 31801196 Oral/Interpersonal Comm, 31801195 Written Comm and CONDITION: 315431 Practical Nursing Admission requirements met

NURSING HEALTH ALTERATIONS...elaborates upon the basic concepts of health and illness as presented in Nursing Fundamentals. It applies theories of nursing in the care of clients through the lifespan, utilizing problem solving and critical thinking. This course will provide an opportunity to study conditions affecting different body systems and apply evidence-based nursing interventions. It will also introduce concepts of leadership and management. Course requires a minimum grade of "C" or better. PREREQUISITES: 31543301 Nursing Fundamentals and 31543302 Nursing Skills, 31543303 Nursing Pharmacology, and 31543304 Nursing: Intro to Clinical Practice and CONDITION: 315431 Practical Nursing admission requirements met

NURSING HEALTH PROMOTION...focuses on topics related to health promotion for individuals and families throughout the lifespan. We will cover nursing care of the developing family, which includes reproductive issues, pregnancy, labor and delivery, post-partum, the newborn, and the child. Recognizing the spectrum of healthy families we will discern patterns associated with adaptive and maladaptive behaviors applying mental health principles. An emphasis is placed on teaching and supporting healthy lifestyle choices for individuals of all ages. Nutrition, exercise, stress management, empowerment, and risk reduction practices are highlighted. Study of the family will cover dynamics, functions, discipline styles, and stages of development. Course requires a minimum grade of "C" or better. PREREQUISITES: 31543301 Nursing Fundamentals, 31543302 Nursing Skills, 31543303 Nursing Pharmacology, and 31543304 Nursing: Intro to Clinical Practice and CONDITION: 315431 Practical Nursing admission requirements met NURSING PHARMACOLOGY...introduces the principles of pharmacology, including drug classifications and their effects on the body. Emphasis is on the use of the components of the nursing process when administering medications. Student must be admitted to the Practical Nursing program. Course requires a minimum grade of "C" or better. PREREQUISITES: 31806177 Gen A & P or 31509302 Hum Body Hith Disease, 31809188 Developmental Psych, 31801196 Oral/Interpersonal Comm, 31801195 Written Comm and CONDITION: 315431 Practical Nursing Admission reqs met

NURSING SKILLS...focuses on development of evidence-based clinical skills and physical assessment across the lifespan. Content includes mathematical calculations and conversions related to clinical skills. In addition the course includes techniques related to obtaining a health history and basic physical assessment skills using a body systems approach. This course requires a minimum grade of "C" or better. Some Saturday hours are required. PREREQUISITES: 31806177 Gen A & P or 31509302 Hum Body HIth Disease, 31809188 Developmental Psych, 31801196 Oral/ Interpersonal Comm, 31801195 Written Comm and CONDITION: 315431 Practical Nursing Admission requirements met

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent



PRECISION MACHINING TECHNOLOGY

Program Number 31-420-1 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

Learn CNC (computer numerical control) and Machining at your own pace, through hands-on learning, and with your instructor and success coach to guide you. Just about every product that you use in your daily activities is the result of a machine tool manufacturing process. If you like hands-on work, are detail-oriented, have good math skills, and are able to develop and follow through on work instructions, a career in machine tool operation offers you lifelong opportunities.

PROGRAM OUTCOMES

- · Apply basic safety practices in the machine shop.
- · Interpret industrial/engineering drawings.
- · Apply precision measuring methods to part inspection.
- Perform basic machine tool equipment set-up and operation
- Perform programming, set-up and operation of CNC Machine Tools.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned Program Counselor/Success Coach to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

This program offers flexible start dates throughout the year. Students can attend classes anytime Monday through Thursday from 8am-8pm.

RELATED PROGRAMS

- CNC Automation Technician Technical Diploma
- Machinist Apprenticeship
- Tool & Die Apprenticeship
- Millwright Apprenticeship

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu Catalog No. Class Title Credit(s)

Term 1

| 31420310 | Shop Tools and Fasteners | 1 |
|----------|-------------------------------|----|
| 31420330 | Precision Measuring | 1 |
| 31420385 | Orthographic Projection Print | 1 |
| 31420325 | Machining Math Basic | 1 |
| 31420338 | Drills and Saws | 1 |
| 31420340 | Manual Lathe Operation | 1 |
| 31420350 | Manual Mill Operation | 1 |
| 31420386 | GD&T Intro | 1 |
| 31420326 | Machining Geometry and Basic | 1 |
| | Trigonometry | |
| 31444301 | Mill-G&M Code | 1 |
| 31444303 | CNC Machining Operation | 1 |
| 31444309 | CNC Turning Operation | 1 |
| 31420359 | Safe Heat Treating Operations | 1 |
| | | 13 |

Term 2

| 31801361 | Interpersonal Skills | 1 |
|----------|------------------------------------------|----|
| 31801360 | Workplace Fundamentals | 1 |
| 31444305 | Turning-G&M Code | 1 |
| 31444307 | Mill-2D Using CAM | 1 |
| 31420353 | ProtoTrak Mill-Squaring Programming | 1 |
| 31420354 | ProtoTrak Mill-Slot and Hole Programming | 1 |
| 31420356 | Surface Grinder Operations | 1 |
| 31444311 | CNC Turning-Turning and Cut Off Setup | 1 |
| 31444313 | CNC Turning-Hole Producing | 1 |
| | Setup/Threading | |
| 31444315 | CNC Machining-Facing and End Milling | 1 |
| | Setup | |
| 31444317 | CNC Machining-Hole/Slot/Engraving Setup | 1 |
| 31444321 | CNC Turning 2D Using CAM | 1 |
| 31420361 | Complex Print Drawings | 1 |
| 31420362 | Advanced Precision Measuring | 1 |
| 31420363 | GD&T-Inspection | 1 |
| | | 15 |
| | | |

TOTAL 28

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

ADVANCED PRECISION MEASURING...prepares the learner to demonstrate the use of advanced precision measuring instruments. COREQUISITE: 31420330 Precision Measuring

CNC MACHINING OPERATION...prepares the learner to set up and operate CNC Machining Center safely. COREQUISITE: 31420350 Manual Mill Operation or PREREQUISITE: 31420351 Mill-Slots and Holes

CNC MACHINING-FACING AND END MILLING SETUP...prepares the learner to perform setup of CNC machining center for facing and end milling operations. COREQUISITE: 31444303 CNC Machining Operation or PREREQUISITE: 31420307 Intro to CNC Machining Center

CNC MACHINING-HOLE/SLOT/ENGRAVING SETUP...prepares the learner to perform setup of CNC machining center for hole producing, milling slots and engraving operations. COREQUISITE: 31444315 CNC Machining-Facing and End Milling Setup

CNC TURNING 2D USING CAM...prepares the learner to create lathe toolpaths using CAM software. PREREQUISITE: 31420342 Lathe-Hole Producing and Threading or COREQUISITES: 31420340 Manual Lathe Operation.

CNC TURNING OPERATION...prepares the learner to set up and operate CNC turning center safely. PREREQUISITE: 31420342 Lathe-Hole Producing and Threading or COREQUISITES: 31420340 Manual Lathe Operation

CNC TURNING-HOLE PRODUCING SETUP/THREADING...prepares the learner to perform setup of CNC turning center for hole producing and threading operations. COREQUISITE: 31444311 CNC Turning-Turning and Cut Off Setup

CNC TURNING-TURNING AND CUT OFF SETUP...prepares the learner to perform setup of CNC turning center for turning and cutoff operations. COREQUISITE: 31444309 CNC Turning Operation or 31420308 Intro to CNC Turning Center

COMPLEX PRINT DRAWINGS...prepares the learner to interpret complex part drawings. COREQUISITE: 31420386 GD&T Intro

DRILLS AND SAWS...learner will demonstrate use of sawing and drilling machines safely. COREQUISITE: 31420310 Shop Tools and Fasteners or PREREQUISITES: 31420394 Industrial Maintenance Machine Tool Intro or 10420194 Machine Tool Intro or CONDITION: 324571 Welding FabTech enrollment requirements met

GD&T INSPECTION...prepares the learner to inspect GD&T part features as well as programming and operation of coordinate measuring machine (CMM). COREQUISITE: 31420362 Advanced Precision Measuring

GD&T INTRO...prepares the learner to interpret manufacturing drawings for geometric dimension and tolerances (GD&T). COREQUISITE: 31420385 Orthographic Projection Print

INTERPERSONAL SKILLS...prepares the learner to model interpersonal skills, ethics and diversity.

MACHINING GEOMETRY AND BASIC TRIGONOMETRY...prepares the learner to apply geometry and basic trig to solve technical problems. COREQUISITE: 31420325 Machining Math Basic

MACHINING MATH BASIC...prepares the learner to apply basic technical math skills to solve problems.

MANUAL LATHE OPERATION...prepares the learner to perform lathe facing, turning, hole producing and threading operations safely. COREQUISITE: 31420310 Shop Tools and Fasteners or 31420394 Ind Mtnc Machine Tool Introduction or 10420194 Machine Tool Introduction or CONDITION: 324571 Welding Fabrication Technician, 104622 Electro-Mech Maintenance Technician, or 314622 Maintenance Mechanic program requirements met

MANUAL MILL OPERATION...prepares the learner to perform squaring, slot milling and hole producing using a vertical mill machine safely. COREQUISITE: 31420310 Shop Tools and Fasteners or 31420394 Ind Mtnc Machine Tool Intro or 10420194 Machine Tool Intro or CONDITION: 324571 Welding Fabrication Technician, 104622 Electro-Mech Maintenance Technician, or 314622 Maintenance Mechanic program requirements met

MILL-2D USING CAM...prepares the learner to create 2D milling toolpaths using computer aided machining (CAM) software. COREQUISITE: 31420350 Manual Mill Operation or PREREQUISITE: 31420351 Mill-Slots and Holes

MILL-G&M CODE...prepares the learner to create milling G&M code programs.

ORTHOGRAPHIC PROJECTION PRINT...prepares the learner to interpret manufacturing orthographic projection prints.

PRECISION MEASURING...prepares the learner to demonstrate use of precision measuring instruments.

PROTOTRAK MILL-SLOT AND HOLE PROGRAMMING ... prepares the learner to mill slots and hole producing operations using conversational programming on ProtoTrak vertical milling machine. COREQUISITE: 31420353 ProtoTrak Mill-Squaring Programming and PREREQUISITE: 31420351 Mill-Slots and Holes or COREQUISITE: 31420350 Manual Mill Operation

PROTOTRAK MILL-SQUARING PROGRAMMING...prepares the learner to perform squaring operations using conversational programming on ProtoTrak vertical milling machine. COREQUISITE: 31420350 Manual Mill Operation or PREREQUISITE: 31420351 Mill-Slots and Holes

SAFE HEATING TREATING OPERATIONS...prepares the learner to perform heat treating operations safely.

SHOP TOOLS AND FASTENERS...prepares the learner to demonstrate use of shop tools and fasteners. COREQUISITE: 31420330 Precision Measuring

SURFACE GRINDER OPERATIONS...prepares the learner to perform surface grinder operations safely.

TURNING-G&M CODE...prepares the learner to create turning G&M code programs. PREREQUISITE: 31420311 Machine Tool Programming Basic or COREQUISITE: 31444301 Mill-G&M Code

WORKPLACE FUNDAMENTALS...prepares the learner to incorporate problem solving, creativity and communication skills into daily workplace habits.

QUALITY ASSURANCE TECHNICIAN

Catalog No. Class Title

Program Number 10-623-2 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Quality Assurance is a program for the systematic monitoring and evaluation of the various aspects of a project, service, or facility to ensure that standards of quality are being met. In simple business terms, quality assurance is the difference between success and failure. If you believe in the idea of "quality in, quality out," and you want to play a vital role in helping an organization achieve success through quality, LTC's Quality Assurance Technician program is the way to realize your goal.

PROGRAM OUTCOMES

- Define the operations of a business across functional areas.
- Measure the current state of an organization's quality system.
- · Analyze data and processess to meet organizational goals.
- Improve the quality system and processes.
- Control business processes.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| | Term 1 | |
|----------|----------------------------------------|----|
| 10103191 | Word - Level 1 | 1 |
| 10103121 | Excel - Level 1 | 1 |
| 10182131 | Supply Chain Management | 3 |
| 10623101 | Quality Concepts | 3 |
| 10623118 | Lean Manufacturing Overview | 3 |
| 10801195 | Written Communication | 3 |
| 10809198 | Introduction to Psychology OR 10809188 | 3 |
| | Developmental Psychology | |
| | | 17 |
| | | |
| | Term 2 | |
| | | |
| 10182110 | Negotiations | 3 |
| 10801198 | Speech OR 10801196 | 3 |
| | Oral/Interpersonal Communication | |
| 10804189 | Introductory Statistics | 3 |

Term 3

10809195

10623193 ISO 9001 Internal Auditor

Economics

| 10101155 | Accounting for Professionals | 3 |
|----------|--------------------------------------|----|
| 10105128 | Personal Branding | 2 |
| 10196188 | Project Management | 3 |
| 10623110 | Lean Six Sigma - Measure and Analyze | 4 |
| 10623111 | Lean Six Sigma - Improve & Control | 4 |
| | | 16 |

Term 4

| 10182102 | Service Operations Management | 3 |
|----------|---------------------------------|----|
| 10623112 | Lean Six Sigma - Implementation | 3 |
| 10623114 | Lean Six Sigma - Black Belt | 4 |
| 10623123 | Blueprint Reading and Metrology | 3 |
| | | 13 |

TOTAL 61

Credit(s)

3

3 15

ACCOUNTING FOR PROFESSIONALS...is the study of the information that can be interpreted from financial statements. Students analyze financial statements and apply managerial accounting concepts in an accelerated format. PREREQUISITE: 10804123 Math w Business Applications or CONDITION: 101101 Paralegal program requirements met

BLUEPRINT READING AND METROLOGY...provides knowledge and skill in the understanding of quality measurement, quality measurement devices and their proper application. Quality measurement topics include precision, accuracy, control of variation, gage R/R, calibration techniques and blueprint/specification reading. The quality measurement devices portion of this course provides hands-on use of common measurement and test equipment.

ECONOMICS ...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

ISO 9001 INTERNAL AUDITOR...is designed to introduce participants to the current ISO 9001 standard. The course is structured to provide a detailed review of the standards, how to document procedures, and how to perform audits. Students will practice preparation for and conducting audits in a local business. Successful completion of this course qualifies the student to receive the ISO 9001 Internal Auditor certificate (19-623-8).

LEAN MANUFACTURING OVERVIEW...expands the learner's ability to develop skills to prioritize and sequence work, execute work plans, implement controls, and create and analyze performance evaluations. It allows the student to explore the execution of quality initiatives and continuous improvement plans in addition to the control and handling of inventories.

LEAN SIX SIGMA - IMPLEMENTATION...introduces the student to the implementation of a Six Sigma project. Students apply the techniques used in prior Lean Six Sigma courses to a real problem in their place of employment. An emphasis is placed on team skills required to successfully implement the project. Skills demonstrated include project initiation, time management, and constraint management. Student final projects demonstrate their mastery of both DMAIC and Lean methodologies. PREREQUISITE: 10623111 Lean Six Sigma-Improve& Control

LEAN SIX SIGMA - IMPROVE & CONTROL...provides the student with the skills and tools to select and implement solutions to solve problems and improve processes. An emphasis is placed on the use of statistical techniques in solution selection including correlation, regression, and statistical process control. Lean manufacturing methods including SMED, POUS, cellular manufacturing, mistake proofing, TPM, 5S and visual management are practiced. Students learn how to create a control plan. COREQUISITE: 10623110 Lean Six Sigma -Measure & Analyze

LEAN SIX SIGMA - MEASURE AND ANALYZE...provides the student with skills and tools to collect and analyze data to solve problems and improve processes within an organization. Various techniques for process mapping are explored including SIPOC, FMEA, VSM, standard work sheets, and spaghetti diagrams. Statistical tools are explored including probability, confidence intervals, measurement systems analysis, hypothesis testing, and TAKT time analysis to create and implement a data collection plan. LEAN SIX SIGMA TOOLS - BLACK BELT...provides the student with the knowledge to achieve Lean Six Sigma - Black Belt. Students demonstrate additional proficiency in high level statistical analysis including reliability, hypothesis testing, ANOVA, DOE, failure rates and MTBF. Project management through the DMAIC process is examined. Students learn how to "build quality in" at the design stage by use of the concepts of design for six sigma (DFSS). COREQUISITES: 10623112 Lean Six Sigma-Implementation

NEGOTIATIONS...is an exciting introduction into negotiations where the following topics will be discussed: nature of negotiations, framing, strategy, integrated negotiations, distributed negotiations, communication, perception, bias, leverage, ethics, global negotiations, and managing difficult negotiations. It is a must course for students desiring to exceed in business.

PERSONAL BRANDING...focuses on the importance of developing a strong brand identity for yourself as a professional. As a prospective employee, you are constantly selling yourself from how you talk, walk, dress, your facial expressions, and your body language; people are always forming impressions of you. In this course, you will develop a professional resume, cover letter, practice interview skills, and learn the role of social media in career development.

PROJECT MANAGEMENT...introduces the learner to explore the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain-related functions. This course addresses three main topics: aligning resources with the strategic plan, configuring and integrating operating processes to support the strategic plan, and implementing change.

QUALITY CONCEPTS...provides an overview of quality systems, methods and analysis. Basic quality philosophies such as Deming's principles, continuous improvement, quality costs, supplier relations and inspection theory will be presented. The components of a basic quality system compatible with ISO 9000 and Six Sigma will be explored. Techniques such as pareto, trend analysis, histograms, cause and effect diagrams and corrective/preventive action techniques will be applied to the data in order to address problemsand improve processes.

SERVICE OPERATIONS MANAGEMENT...introduces the student to the basic coverage of the concepts and current issues in service operation management. Topics include the value equation in operations management; understanding services; building the service system; operating the service system; enterprise resource management (ERP) and supply chain management concepts in the service sector.

SPEECH...explores the fundamentals of effective oral presentation to small and large groups. Topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process, form the basis of the course. COREQUISITE: Reading placement assessment or equivalent

SUPPLY CHAIN MANAGEMENT...has been developed to provide a basic understanding of the planning and control of materials into, through, and out of organizations. In addition, those who want to become certified by APICS need a fundamentals course to learn about the materialplanning and control system. This course will provide a basis for further study leading to certification.

WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.



PART-TIME • EVENINGS QUALITY ASSURANCE TECHNICIAN

ABOUT THE PROGRAM

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PROGRAM OUTCOMES

- Define the operations of a business across functional areas.
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- Improve the quality system and processes.
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FUTURE SEMESTER ENROLLMENT STEPS

Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

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FINANCIAL AID

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CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

Program Number 10-623-2 Associate Degree in Applied Science

| Catalog No. | Class Title | Credit(s) |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 10623118 10103191 10804189 10809195 10182131 10103121 | Economics | 3 1 3 3 3 1 14 |
| | | 14 |
| 10623193 10623101 10182110 10623110 | Term 2 (Spring 2024) ISO 9001 Internal Auditor Quality Concepts Negotiations Lean Six Sigma - Measure and Analyze | 3 3 4 13 |
| | Term 3 (Summer 2024) | |
| 10801195 10623111 | Written Communication Lean Six Sigma - Improve and Control | 3 4 7 |
| 10623112 10809198 10623114 10101155 | Term 4 (Fall 2024) Lean Six Sigma - Implementation Introduction to Psychology Lean Six Sigma - Black Belt Accounting for Professionals | 3 3 4 3 13 |
| 10623123 10105128 10196188 10182102 | Term 5 (Spring 2025) Blueprint Reading and Metrology Personal Branding Project Management Service Operations Management | 3 2 3 3 11 |
| | Term 6 (Summer 2025) | |
| 10801196 | Oral/Interpersonal Communications | 3 |
| | | 3 |
| | то | TAL 61 |
| | ART-TIME | |

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

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LAKESHORE TECHNICAL COLLEGE

QUALITY PROCESS IMPROVEMENT

Catalog No. Class Title

Program Number 31-623-2 Technical Diploma • Two Terms

ABOUT THE PROGRAM

This technical diploma, Quality Process Improvement, provides you with the basic skills for quality assurance work. This credential 'ladders' up to the full two-year associate degree, Quality Assurance Technician. Quality Assurance is a program for the systematic monitoring and evaluation of the various aspects of a project, service, or facility to ensure that standards of quality are being met. In simple business terms, quality assurance is the difference between success and failure. If you believe in the idea of "quality in, quality out," and you want to play a vital role in helping an organization achieve success through quality, LTC's Quality Process Improvement technical diploma is the way to get you started in this field.

PROGRAM OUTCOMES

- Define the operations of a business across functional areas.
- Measure the current state of an organization's quality system.
- Analyze data and processess to meet organizational goals.
- · Improve the quality system and processes.
- · Control business processes.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

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FUTURE SEMESTER ENROLLMENT STEPS

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APPROXIMATE COSTS

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FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

This credential, the Quality Process Improvement technical diploma, is part of the quality assurance career pathway and can serve as a step to the higher credential, the Quality Assurance Technician Associate Degree. The associate degree provides further in-depth training in quality, management, and in "soft" skills.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu Term 110623101Quality Concepts310623110Lean Six Sigma - Measure and Analyze410623111Lean Six Sigma - Improve & Control410623118Lean Manufacturing Overview314Term 210000110

10623112Lean Six Sigma - Implementation310623193ISO 9001 Internal Auditor310623123Blueprint Reading and Metrology310801195Written Communication312

TOTAL 26

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

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LEAN SIX SIGMA - IMPROVE & CONTROL...provides the student with the skills and tools to select and implement solutions to solve problems and improve processes. An emphasis is placed on the use of statistical techniques in solution selection including correlation, regression, and statistical process control. Lean manufacturing methods including SMED, POUS, cellular manufacturing, mistake proofing, TPM, 5S and visual management are practiced. Students learn how to create a control plan. COREQUISITE: 10623110 Lean Six Sigma -Measure & Analyze

LEAN SIX SIGMA - MEASURE AND ANALYZE...provides the student with skills and tools to collect and analyze data to solve problems and improve processes within an organization. Various techniques for process mapping are explored including SIPOC, FMEA, VSM, standard work sheets, and spaghetti diagrams. Statistical tools are explored including probability, confidence intervals, measurement systems analysis, hypothesis testing, and TAKT time analysis to create and implement a data collection plan.

QUALITY CONCEPTS...provides an overview of quality systems, methods and analysis. Basic quality philosophies such as Deming's principles, continuous improvement, quality costs, supplier relations and inspection theory will be presented. The components of a basic quality system compatible with ISO 9000 and Six Sigma will be explored. Techniques such as pareto, trend analysis, histograms, cause and effect diagrams and corrective/preventive action techniques will be applied to the data in order to address problemsand improve processes.



RADIOGRAPHY

Program Number 10-526-1 Associate Degree in Applied Science • Six Terms

| | Catalog No. | Class Title | Credit(s) |
|-------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| pher in diagnostic imaging ody to aid healthcare n examination administered T) and may obtain | 10806177 10806134 10501101 | , , , , | 4 4 3 11 |
| edical clinics, surgery nd application (hands-on otations in a hospital and diographers to learn the | 10526149 10526158 10526159 10526168 | Term 1 Radiographic Procedures 1 Introduction to Radiography Radiographic Imaging Radiography Clinical 1 | 5 3 2 13 |
| ages. | 10526192 | Term 2 (Summer) Radiography Clinical 2 | 3 3 |
| e A.R.R.T. Code of Ethics. ctice of diagnostic NITIES nation visit gotoltc.edu/ | 10526230 10526191 10526193 10801196 | Term 3 Advanced Radiographic Imaging Radiographic Procedures 2 Radiography Clinical 3 Oral/Interpersonal Communication | 2 5 3 3 13 |
| cessing fee. ram Counseling Session. Session with your assigned eview your entire plan of estionnaire. | 10526194 10526231 10526199 10526189 10809198 | Term 4 Imaging Equipment Operation Imaging Modalities Radiography Clinical 4 Radiographic Pathology Introduction to Psychology | 3 2 3 1 3 12 |
| Submane. (): College transcripts, along re years, used for course edit(s) and for financial aid | 10526190 10801195 | Term 5 (Summer) Radiography Clinical 5 Written Communication | 2 3 5 |
| within the past 5 years. ing for second semester. lit student activity fee. by program. Visit gotoltc. | 10526174 10526195 10526197 10526198 10809196 | Term 6 ARRT Certification Seminar Radiographic Imaging Analysis Radiation Protection and Biology Radiography Clinical 6 Introduction to Sociology | 2 2 3 2 3 12 |
| nancial-Aid or talk with your | | тс | OTAL 69 |
| colet Technical College and will attend live or your local technical college. view Committee on e, Suite 2850, Chicago, | prepares st be employe College do | Technical College's Radiography p tudents to obtain the required licer ed/practice in the state of Wiscons es not guarantee its curriculum ma ts for preparation, examination, or ates. | isure to in. The atches the |
| ic health and immunization | Program start of The tuition and | I program acceptance requirements are subjec lates vary; check with your program counselor fees are approximate based on 2023-2024 rate ige prior to the start of the academic vear. | for details. |

2023-24

The program prepares individuals for a career as a radiographer in diagnostic imaging (x-ray). The radiographer produces images of the human body to aid healthcare providers in the diagnosis of injuries and diseases.

Graduates of the program are eligible to take the certification examination administered by the American Registry of Radiologic Technologists (ARRT) and may obtain employment in imaging departments to include hospitals, medical clinics, surgery centers, and private offices.

Program curriculum focuses on theory (textbook material) and application (hands-on clinical experience). The clinical experience will consist of rotations in a hospital and clinic setting where the students will work with practicing radiographers to learn the equipment and to become proficient in the field.

PROGRAM OUTCOMES

- · Carryout the production and evaluation of radiographic images
- Practice radiation safety principles.
- Provide quality patient care.
- Model professional and ethical behavior consistent with the A.R.R.T. Code of Ethics.
- Apply critical thinking and problem-solving skills in the practice of diagnostic radiography.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete a background check and pay for applicable processing fee.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Watch Radiography informational video prior to your Program Counseling Session.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Attend Career Experience session.

- Obtain or provide evidence of CNA course competencies within the past 5 years.
- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

- LTC offers its Radiography program in cooperation with Nicolet Technical College and Gateway Technical College. As a radiography student, you will attend live or
- interactive TV classes and take general studies classes at your local technical college.
 LTC's Radiography program is accredited by The Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850, Chicago,
- Education in Radiologic Technology, 20 North Wacker Drive, Suite 2850, Chica Illinois 60606-3182. Phone: 1.312.704.5300.
- To complete the clinical portion of this program, site specific health and immunization documentation will be required.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

ADVANCED RADIOGRAPHIC IMAGING...explores factors that impact image acquisition, display, archiving and retrieval. Guidelines for selecting exposure factors and evaluating images within digital systems are discussed. Principles of digital system quality assurance and maintenance are presented. PREREQ: 10526159 Radiographic Imaging

ARRT CERTIFICATION SEMINAR...provides preparation for the national certifying examination prepared by the American Registry of Radiologic Technologists. Emphasis is placed on the weak areas of the individual students. Simulated registry examinations are utilized. Successful completion of the Radiography program requirements is required to enroll in this course. PREREQUISITE: 10526190 Radiography Clinical 5 and CONDITION: 105261 Radiography admissions requirements met

GENERAL ANATOMY AND PHYSIOLOGY...examines basic concepts of human anatomy and physiology as they relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole-body anatomy and physiology to informed decision-making and professional communication with colleagues and patients. PREREQUISITE: 10806134 General Chemistry or Equivalent

GENERAL CHEMISTRY...covers the fundamentals of chemistry. Topics include the metric system, problem-solving, periodic relationships, chemical reactions, chemical equilibrium, properties of water; acids, bases, and salts; and gas laws. COREQUISITE: 78854773 Math Essentials for Chemistry and Reading placement assessment or equivalent

IMAGING EQUIPMENT OPERATION...introduces radiography students to the principles and application of x-ray technology. Students analyze how x-rays are produced and determine the corrective actions necessary for common equipment malfunctions. PREREQUISITE: 10526230 Advanced Radiographic Imaging and CONDITION: 105261 Radiography admissions requirements met

IMAGING MODALITIES...introduces radiography students to imaging modalities with an emphasis in computed tomography and cross-sectional anatomy. PREREQUISITES: 10526191 Radiographic Procedures 2 and CONDITION: 105261 Radiography admissions requirements met

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

INTRODUCTION TO RADIOGRAPHY...introduces students to the role of radiography in health care. Students apply legal and ethical considerations to patient care and pharmacology in the radiologic sciences. PREREQUISITE: 10501101 Medical Terminology and CONDITION: 105261 Radiography admissions requirements met

INTRODUCTION TO SOCIOLOGY...introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues. COREQUISITE: Reading placement assessment or equivalent

MEDICAL TERMINOLOGY...focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

RADIATION PROTECTION AND BIOLOGY...prepares radiography students to protect themselves and others from exposure to radioactivity. Students examine the characteristics of radiation and how radiation affects cell biology. Students apply standards and guidelines for radiation exposure. PREREQUISITE: 10526194 Imaging Equip Operation and CONDITION: 105261 Radiography admissions requirements met

RADIOGRAPHIC IMAGING ANALYSIS... prepares radiography students to analyze radiographic images for quality. Students apply quality control tests to determine the causes of image problems including equipment malfunctions and procedural errors. CONDITION: 105261 Radiography admissions requirements met and PREREQUISITE: 10526194 Imaging Equipment Operation

RADIOGRAPHIC IMAGING...introduces radiography students to the process and components of imaging. Students determine the factors that affect image quality including contrast, receptor exposure, spatial resolution and distortion. PREREQUISITES: 10806174 General Chemistry or 10806143 General Chemistry and CONDITION: 105261 Radiography admission requirements met

RADIOGRAPHIC PATHOLOGY...prepares radiography students to determine the basic radiographic manifestations of pathological conditions. Students classify trauma related to site, complications, and prognosis and locate the radiographic appearance of pathologies. CONDITION: 105261 Radiography admissions requirements met

RADIOGRAPHIC PROCEDURES 1...prepares radiography students to perform routine radiologic procedures on various parts of the body including the upper body, hip, pelvis and ankle. Students apply knowledge of human anatomy to position the patient correctly to achieve the desired result. CONDITION: 105261 Radiography admissions requirements met and PREREQUISITES: 10806177 Gen Anatomy & Physiology or 108061770L Gen Anatomy & Physiology

RADIOGRAPHIC PROCEDURES 2...prepares radiography students to perform routine radiologic procedures on various parts of the body including the skull and spine. Students apply knowledge of human anatomy to position the patient correctly to achieve the desired result. PREREQUISITE: 10526149 Radiographic Procedures 1

RADIOGRAPHY CLINICAL 1...is a beginning level clinical course that prepares radiography students to perform radiologic procedures on patients with extensive supervision and direction. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. An emphasis of the course is the development of communication and critical thinking skills appropriate to the clinical setting. CONDITION: 105261 Radiography admissions requirements met and COREQUISITE: 10526149 Radio Proc 1, 10526158 Intro to Radio, 10526159 Radiographic Imaging, and PREREQUISITE: 10806177 Gen A&P or 10806196 A&P II

RADIOGRAPHY CLINICAL 2...is the second level clinical course that prepares radiography students to perform radiologic procedures on patients with extensive supervision and direction. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. An emphasis of the course is the development of communication and critical thinking skills appropriate to the clinical setting. COREQUISITE: 10526168 Radiography Clinical 1

RADIOGRAPHY CLINICAL 3...is the third level clinical course which prepares radiography students to perform radiologic procedures on patients with supervision and direction. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. An emphasis of the course is the demonstration of communication and critical thinking skills appropriate to the clinical setting. PREREQUISITE: 10526192 Radiographic Clinical 2

RADIOGRAPHY CLINICAL 4...is the fourth level clinical course that prepares radiography students to perform radiologic procedures on patients with supervision and direction. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. Students are encouraged to demonstrate independent judgment in the performance of clinical competencies. PREREQUISITE: 10526193 Radiographic Clinical 3

RADIOGRAPHY CLINICAL 5...is the fifth level clinical course that prepares radiography students to perform radiologic procedures on patients with some supervision. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. Students are encouraged to demonstrate independent judgment in the performance of clinical competencies. COREQUISITE: 10526199 Radiographic Clinical 4

RADIOGRAPHY CLINICAL 6...is the final clinical course which requires students to integrate and apply all knowledge learned in previous courses to the production of high-quality radiographs in the clinical setting. Students apply radiation protection and standard precautions in the production of radiographs in a health care setting while adhering to legal and ethical guidelines. Students are encouraged to demonstrate independent judgment in the performance of clinical competencies. PREREQUISITE: 10526190 Radiography Clinical 5

RENEWABLE ENERGY TECHNOLOGY

Program Number 10-482-1 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

The Renewable Energies segment of the United States' Energy Portfolio is the fastestgrowing segment. Jobs in this field are on the cutting edge of worker technological knowledge, skills, and abilities. As such, these graduates are in very high demand. Additionally, the workforce is able to work locally, or anywhere in the country as renewable energy farms continue to be constructed. This program prepares workers for jobs in the Wind Industry, Solar Power Generation, and Renewable Energy Storage sectors creating a broadly educated and very capable Renewable Energies Technician.

PROGRAM OUTCOMES

- Install, inspect, test, service, and repair wind turbine components.
- Wear proper Personal Protection Equipment, identify hazards, mitigate said hazards, and safely climb towers.
- Cognitively think and use deductive reasoning as well as manufacturer information while troubleshooting or maintaining a wind turbine.
- Clearly and responsibly communicate appropriate information with stakeholders under minimal supervision.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course

registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

 \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

This program is an official shared program with students from FVTC and MPTC. Students attend electro-mechanical and general education classes at their local technical colleges. These students attend Renewable Energy Technology specific courses at LTC in Cleveland and may graduate with both a degree from their respective colleges as well as a degree in Renewable Energy Technology from LTC. LTC welcomes transfer students who are graduates of electro-mechanical and other energyrelated programs or other universities. Interested transfer/dual-degree students are encouraged to contact the LTC Admissions Advisor at 920-693-1162.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. Class Title Credit(s | Catalog No. | Class Title | Credit(s |
|----------------------------------|-------------|-------------|----------|
|----------------------------------|-------------|-------------|----------|

Term 1

| 10620105 | DC Fundamentals | 2 |
|----------|-------------------------------------|---|
| 10482141 | Wind Technical Rescue | 1 |
| 10482142 | Wind Technician Safety | 1 |
| 10482143 | Wind Turbine Fundamentals | 1 |
| 10482144 | Wind Site Planning | 1 |
| 10482145 | Wind Site Operations | 1 |
| 10620122 | Industrial Wiring | 2 |
| 10620155 | Hydraulics & Pneumatics | 3 |
| 10804113 | College Technical Mathematics 1A OR | 3 |
| | 10804198 Calculus 1* (4 cr) | |

Term 2

| 10620110 | AC Fundamentals | 2 |
|----------|---------------------------------------|---|
| 10482146 | Wind Technician Tools | 1 |
| 10482147 | Wind Turbine Preventative Maintenance | 1 |
| 10482148 | Wind Turbine Schematics | 1 |
| 10482149 | Wind Turbine Mechanical Systems | 1 |
| 10482150 | Wind Turbine Electrical Systems | 1 |
| 10482151 | Wind Turbine Drivetrain | 1 |
| 10482152 | Wind Energy Electrical Distribution | 1 |
| 10482153 | Wind Turbine Generator and Converter | 1 |
| 10620141 | Industrial Controls & Motors | 3 |
| 10801195 | Written Communication | 3 |

Term 3

| 10482110 | Introduction to Energy | 1 |
|----------|---------------------------------------------|---|
| 10482154 | Solar Technician Site Assessment | 1 |
| 10482155 | Solar Technician System Design | 1 |
| 10482156 | Solar Technician Load Analysis | 1 |
| 10482157 | Photovoltaic Residential Systems | 1 |
| 10482158 | Photovoltaic Industrial Systems | 1 |
| 10410102 | Blueprint Reading for Building Construction | 2 |
| 10620193 | National Electrical Code | 1 |
| 10482135 | Energy Power and Force OR 10806154 | 3 |
| | General Physics 1 (4 cr) | |
| 10482136 | Energy Power and Force Lab OR | 1 |
| | 10806154 General Physics 1 (4 cr) | |
| 10620195 | Industrial Troubleshooting | 1 |
| 10809195 | Economics OR 10809196 Introduction | 3 |
| | to Sociology (3 cr) | |
| | 1 | 7 |

Term 4

1

1

1

1

1

| 0482161 | Battery Systems | 1 |
|---------|------------------------------------------|----|
| 0482162 | Battery Systems Lab | 1 |
| 0809198 | Introduction to Psychology | 3 |
| 0801196 | Oral/Interpersonal Communication | 3 |
| 0620138 | Programmable Controllers - Allen Bradley | 3 |
| 0620164 | Electromechanical Systems | 2 |
| | | 13 |

TOTAL 61

15

16

*Students who plan to also achieve a Bachelor's degree are encouraged to take this transferable course.

**These class dates and times may be rescheduled due to inclement weather. Students must be within safe-climbing, equipped body weight of 130-310 pounds.

AC FUNDAMENTALS...prepares the student to analyze electrical circuits using AC math, analyze AC waveforms, measure and analyze AC power, analyze capacitors and inductors in DC and AC circuits, analyze AC circuits containing reactance and calculate resonance, applythe elements and properties of basic measuring circuits, and describe transformer characteristics. PREREQUISITE: 10620105 DC Fundamentals or 10660105 DC Fundamentals

BATTERY SYSTEMS...introduces the students to how batteries work, the various types of batteries available and how they can be applied to renewable energy systems of various sizes, as well as their applications for peak demand and grid optimization. PREREQUISTES: 10620105 DC Fundamentals and 10482110 Introduction to Energy and CORREQUISTE: 10482162 Battery Systems Lab

BATTERY SYSTEMS LAB...familiarizes students with various batteries, configurations, and charging methods. Students will experiment with battery power as well as power capabilities over time. PREREQUISTES: 10620105 DC Fundamentals and 10482110 Introduction to Energy and CORREQUISTE: 10482161 Battery Systems

BLUEPRINT READING FOR BUILDING CONSTRUCTION...provides instruction in reading and interpreting shop drawings, residential drawings, and commercial building plans. Emphasis is placed on building terminology and learning conventional techniques of communicating building methods from the designerto the builder. Students learn to visualize the structure and to interpret elevations, plan views, details, and sections from drawings. They also learn to read and interpret building specifications.

COLLEGE TECHNICAL MATHEMATICS 1A...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. COREQUISITE: Math placement assessment or equivalent

DC FUNDAMENTALS...prepares the student to convert values to scientific and engineering notations; calculate math quantities; describe basic atomic theory; identify basic electrical terms; use established symbols standards; describe DC voltage characteristics and current sources and electrical resistance; measure and analyze electrical quantities in series and parallel circuits; and desolder/solder single lead components. COREQUISITE: 10804113 College Tech Math 1A or 10804115 College Tech Math 1 or 10804198 Calculus 1 or 10804118 Interm Algebra with Apps

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

ELECTROMECHANICAL SYSTEMS...prepares the student to communicate with, tune, run, and troubleshoot Allen-Bradley servos; utilize electrical control of hydraulic systems, explore PID control of motor speed; and investigate open and closed loop control systems. PREREQUISITES: 10620104 Fluid Power 2 or 10620155 Hydraulics & Pneumatics COREQUISITE: 10620110 AC Fund or 10660110 AC Fund

ENERGY POWER AND FORCE...studies the laws and theories of electric power generation that govern motion and how to apply them to a range of concepts including rotational inertia, acceleration, velocity, lift, force, torque, etc. Studies the law of Conservation of Energy andbasic atomic theory and how these concepts apply to electric power generation. The use and function of simple machines, and how they relate to electric power generator function, is also explored.

ENERGY POWER AND FORCE LAB ...applies the laws and theories that govern motion to energy power and force concepts including rotational inertia, acceleration, velocity, lift, force and torque. Exploration of basic atomic theory and how it applies to electric power generation is conducted. In addition, the law of conservation of energy is applied in the lab activities. The use and function of simple machines, and how they relate to generator function is also examined. COREQUISITE: 10482135 Energy Power & Force

HYDRAULICS AND PNEUMATICS...prepares learner to identify hydraulic and pneumatic component symbols and terms, adjust a pressure relief valve, analyze the operation of a pilot operated relief valve; analyze Pascal's law; evaluate flow, velocity, work and power in industrial hydraulic and pneumatic circuits; analyze meter-in, meter-out, and bypass flow control circuits; identify basic hydraulic and pneumatic control valves; and assemble hydraulic circuits. COREQUISITES: 10804113 College Tech Math 1A

INDUSTRIAL CONTROLS AND MOTORS...prepares the learner to select control devices by function and operation; illustrate electrical circuits using symbols, diagrams, and abbreviations; explain the operation of magnetic solenoids and apply motor control techniques and introduces thestudent to three-phase power motor circuits for industrial applications. PREREQUISITE: 10620112 Industrial Wiring and COREQUISITE: 10620110 AC Fundamentals or PREREQUISITE: 10660110 AC Fundamentals

INDUSTRIAL TROUBLESHOOTING...prepares learner to conduct effective machine control troubleshooting techniques with an understanding of preventive maintenance methods designed to minimize motor and controls issues between preventive maintenance measures. PREREQUISITE: 10620141 Ind Controls and Motors

INDUSTRIAL WIRING...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits.

INTRODUCTION TO ENERGY...provides the learner with an overview of electrical energy, electricity generation and distribution. Various methods of electrical energy production are compared and contrasted including renewable energy, fossil fuels and others.

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

NEC CODES...introduces the student to National Electric Codes NFPA 70. Prepares the learner to apply NFPA 70 to motor and control installations and repairs. PREREQUISITE: 10620141 Industrial Controls and Motors. This class qualifies for 24 hours of Continuing Education Units (CEUs) for Electricians.

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent PHOTOVOLTAIC INDUSTRIAL SYSTEMS...provides the student the infrastructure of an industrial photovoltaic system including set up, components, and operations, and maintenance. Students will participate in a field trip to an industrial solar site. COREQUISITES: 10482110 Introduction to Energy and 10482155 Solar Technician System Design

PHOTOVOLTAIC RESIDENTIAL SYSTEMS...introduces the students to various ways a Photovoltaic system can be installed for residential use including various roof mounts, ground mounts, and styles of invertors. Students will explore various utility rate structures that may effect a homeowner's investment. COREQUISITES: 10482110 Introduction to Energy and 10482155 Solar Technician System Design

PROGRAMMABLE CONTROLLERS - ALLEN BRADLEY...prepares the student to understand basic PLC structure and terminology; learn to create and troubleshoot basic PLC programs using the RSLOGIX 500 software and the RSLINX communication software; become familiar with communicating with programming SLC-500 PLCs. This course is highly computer based.

SOLAR TECHNICIAN LOAD ANALYSIS...introduces students to the process of examining the energy needs of a potential solar site and how best to size a photovoltaic system to compliment the goals of the site owner. COREQUISITE: 10482110 Introduction to Energy

SOLAR TECHNICIAN SITE ASSESSMENT...introduces students to the basics of solar site assessment including the use of a solar pathfinder and software based tools for determining the amount of solar energy available at a particular site. Students will also explore the balance of system and interconnection to the utility locations. COREQUISITE: 10482110 Introduction to Energy

SOLAR TECHNICIAN SYSTEM DESIGN...introduces students to the function of and components involved in a photovoltaic system including pv modules, invertors, combiners. Students will explore system requirements and various configuration choices involved with system design. COREQUISITE: 10482110 Introduction to Energy

WIND ENERGY ELECTRICAL DISTRIBUTION...prepares the student to calculate power factor correction, electrical transformer basics, and how to determine electrical values given various transformer configurations.

WIND SITE OPERATIONS...evaluates the operation and maintenance requirements of wind turbines and their components. The environmental impacts of a commercial wind farm will be researched. COREQUISITE: 10482143 Wind Turbine Fundamentals

WIND SITE PLANNING...prepares the student to analyze causes of wind flow and wind flow properties. Students will draft a site assessment and perform a business assessment based upon researched data.

WIND TECHNICAL RESCUE...provides training in First Aid, Manual Handling, Fire Awareness, and Working at Heights. Learning activities will include scenario on LTC's wind turbines and rescue towers to include emergency evacuation procedures and technical rescue. CONDITION: Program requirements met for 104821 Renewable Energy Technology or 314821 Wind Technician or 614821 Wind Tower Climber

WIND TECHNICIAN HEALTH AND SAFETY...provides the learner with Occupational Safety and Health Administration Regulations and proper methods to reduce and control risk in the Wind Industry. This class embeds the OSHA 10 hour for General Industry training. CONDITION: Program requirements met for 104821 Renewable Energy Technology or 314821 Wind Technician or 614821 Wind Tower Climber

WIND TECHNICIAN TOOLS...introduces students to basic hand tool terminology and function including the use of torque wrenches, hydraulic torquing equipment, and precision measuring tools. Lab activities will also include proper fastener insertion, removal, and repair.

WIND TURBINE DRIVETRAIN...provides the student with an overview of how the components of the drivetrain are connected and learn the components of a 3 stage planetary gearbox. Students will perform a gearbox inspection using a borescope and create an inspection report utilizing images captured with the borescope. PREREQUISITE: 10482143 Wind Turbine Fundamentals

WIND TURBINE ELECTRICAL SYSTEMS...provides the student an overview of the various electrical systems that exist within a wind turbine including the generator, the control box and various control, relay and sensor feedback systems. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and 10482142 Wind Technician Safety and COREQUISITE: 10620110 AC Fundamentals

WIND TURBINE FUNDAMENTALS...explores wind turbine history of small, medium, and commercial grade wind turbines in an on-shore and off-shore environment. Various models and designs of wind turbine construction will be examined to differentiate function, operation, and effectiveness. CONDITION: Program requirements met for 104821 Renewable Energy Technology or 314821 Wind Technician or 614821 Wind Tower Climber

WIND TURBINE GENERATOR AND CONVERTOR...introduces students to Doubly Fed Induction Generator functions as well as how the convertor is used to ensure a wind turbine can connect to the electric grid reliably. The study of convertor schematics will also be incorporated in this course. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482152 Wind Energy Electrical Distribution and 10482150 Wind Turbine Electrical Systems and COREQUISITE: 10620110 AC Fundamentals

WIND TURBINE MECHANICAL SYSTEMS...introduces the student to various mechanical systems in a wind turbine including, brake systems, yaw systems, drivetrains and more. Students will gain experience by disassembling and reassembling various systems. The process of aligning a generator will also be covered. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and 10482142 Wind Technician Safety

WIND TURBINE PREVENTATIVE MAINTENANCE...prepares learners to climb, inspect and service wind turbines. Students will perform routine maintenance including greasing, torquing, testing and inspecting of the campus wind turbines. Students will utilize manufacturer information and checklistswhile completing preventative maintenance. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and 10482142 Wind Technician Safety

WIND TURBINE SCHEMATICS...familiarizes the student with schematic reading and prepares the students to use schematics for troubleshooting and Lock Out Tag Out. PREREQUISITES: 10482143 Wind Turbine Fund and 10482141 Wind Technical Rescue and COREQUISITE: 10620110 AC Fundamentals



RESTAURANT SERVICE ESSENTIALS

Program Number 61-316-2 Certificate • 5 credits

ABOUT THE PROGRAM

Provides an introduction to the growing Culinary/Hospitality industry and prepare the learner for an entry level position in the hospital and restaurant industry. Students will learn how to serve food & beverages, assist other kitchen workers, maintain sanitation standards and work with diverse food inventories.

PROGRAM OUTCOMES

- · Apply principles of safety and sanitation in food service operations.
- Demonstrate front of the house food service and customer service skills.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- · Submit online application.
- · Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

· Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

SPECIAL NOTE

Entry into courses requires permission of instructor.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu Catalog No. Class Title

Credit(s)

| | Term 1 | |
|----------|--------------------------|---|
| 10109112 | Sanitation | 1 |
| 10109108 | Dining Room and Beverage | 2 |
| 10316101 | Product Identification | 2 |

TOTAL 5

DINING ROOM AND BEVERAGE SERVICE...introduces learners to dining room and beverage service including wine, spirits, beer, mixology, and non-alcoholic drinks. Helps learners refine their customer service and meal delivery skills through the study and application of proper, customer-oriented dining room service environments including etiquette, dining room safety, set-up, American and French table service, and menu knowledge skills. Concepts include histories of table service, psychology of the customer, and service sequence.

PRODUCT IDENTIFICATION AND PURCHASING...through identification, the study of origins and seasonality, discussion of quality, use, safe handling and fabrication, learners will explore vegetables, seafood, meats, fruits, herbs, spices, oils, vinegar and the nature of taste and flavor. The USDA grading system and butchery concepts are included. Safety, sanitation and cost control concepts are applied.

SANITATION FOR FOOD SERVICE...provides face to face food safety training, testing and materials to food service managers. The Serv Safe Manager certification test is included and a passing score earns the Serv Safe Food Protection Manager Certification.



SUPPLY CHAIN ASSISTANT

Catalog No. Class Title

10801195

Program Number 31-182-1 Technical Diploma • Two Terms

ABOUT THE PROGRAM

This technical diploma, Supply Chain Assistant, provides you with the basic skills needed to perform entry level work in supply chain management. This credential 'ladders' up the associate degree credential, Supply Chain Management. Words such as logistics, purchasing, or material management all encompass part of a supply chain. Supply chains are led and managed by people who enjoy working with others and analyzing data. Without supply chain management, you could not get the products or services you need every day. If you want to be a part of an ever-changing and growing field, supply chain management is for you, and this introductory credential, the Supply Chain Assistant Technical Diploma, can help get you started.

PROGRAM OUTCOMES

- · Implement Supply Management practices in a global environment.
- Demonstrate operations management techniques across product and service industries.
- Analyze logistic interfaces and activities in a supply chain.
- · Evaluate demand management techniques and customer service policies.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

This technical diploma is part of the career pathway for supply chain management, and it can serve as a foundation for the higher level credential, the Supply Chain Management Associate Degree. The associate degree provides further in-depth training in quality, management, and in "soft" skills.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

Term 1 10182108 Purchasing 3 Supply Chain Management 10182131 3 3 10623118 Lean Manufacturing Overview 3 10182122 Logistics 12 Term 2 10182102 Service Operations Management 3 10623110 Lean Six Sigma - Measure and Analyze 4 10182115 Computer Simulation for Operational 3 Management Enterprise Resource Planning and Control 10182114 3

Written Communication

16

TOTAL 28

3

Credit(s)

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

2023-24

REAL EXPERIENCE FOR THE REAL WORLD

233

COMPUTER SIMULATION FOR OPERATIONAL MANAGEMENT... introduces the student to simulation software. The course is structured to introduce basic simulation terminology, develop models, and analyze the information derived from modeling. Students will utilize a 3D simulation software to model, simulate, predict, and analyze systems in manufacturing and logistics organizations.

ENTERPRISE RESOURCE PLANNING AND CONTROL...prepares the participant to interpret material requirements planning reports, build a master production schedule, construct capacity plans, and understand sales and operations planning. The curriculum is developed from the American Production and Inventory Controls exam certification's domain of knowledge. PREREQUISITE: 10182131 Supply Chain Management

LEAN MANUFACTURING OVERVIEW...expands the learner's ability to develop skills to prioritize and sequence work, execute work plans, implement controls, and create and analyze performance evaluations. It allows the student to explore the execution of quality initiatives and continuous improvement plans in addition to the control and handling of inventories.

LEAN SIX SIGMA - MEASURE AND ANALYZE...provides the student with skills and tools to collect and analyze data to solve problems and improve processes within an organization. Various techniques for process mapping are explored including SIPOC, FMEA, VSM, standard work sheets, and spaghetti diagrams. Statistical tools are explored including probability, confidence intervals, measurement systems analysis, hypothesis testing, and TAKT time analysis to create and implement a data collection plan.

LOGISTICS...introduces the student to business logistics, including the efficient and effective flow of goods, services, and related information from the point of origin to the point of consumption and provides a summary of the role and importance of transportation and an overview of carriers, carrier management, and technology and strategies in logistics.

PURCHASING...introduces the participant to basic purchasing, quality specifications, inventory control, supplier selection, price aspects, research and measurement, negotiation, and global purchasing. This course is exciting for anyone interested in working in a challenging and rewarding purchasing and supply chain management career.

SERVICE OPERATIONS MANAGEMENT...introduces the student to the basic coverage of the concepts and current issues in service operation management. Topics include the value equation in operations management; understanding services; building the service system; operating the service system; enterprise resource management (ERP) and supply chain management concepts in the service sector.

SUPPLY CHAIN MANAGEMENT...has been developed to provide a basic understanding of the planning and control of materials into, through, and out of organizations. In addition, those who want to become certified by APICS need a fundamentals course to learn about the materialplanning and control system. This course will provide a basis for further study leading to certification.



SUPPLY CHAIN MANAGEMENT

Catalog No. Class Title

Program Number 10-182-1 Associate Degree in Applied Science • Four Terms

ABOUT THE PROGRAM

Supply chains are everywhere in every business, service, or hospital. Other terms you may know describe specific parts of a supply chain. Words such as logistics, purchasing, or material management all encompass only a part of a supply chain. Supply chains are led and managed by people who enjoy working with others and analyzing data. Without supply chain management, you could not get the products or services you need every day. If you want to be a part of an ever-changing and growing field, supply chain management is for you.

PROGRAM OUTCOMES

- Implement Supply Management practices in a global environment.
- · Demonstrate operations management techniques across product and service industries.
- Analyze logistic interfaces and activities in a supply chain.
- · Evaluate demand management techniques and customer service policies.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire. *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

CONTACT

purposes.

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

| | Term 1 | |
|----------|-----------------------------|----|
| 10103121 | Excel - Level 1 | 1 |
| 10103191 | Word - Level 1 | 1 |
| 10182108 | Purchasing | 3 |
| 10182131 | Supply Chain Management | 3 |
| 10623118 | Lean Manufacturing Overview | 3 |
| 10801195 | Written Communication | 3 |
| | | 14 |
| | Term 2 | |
| 10105128 | Personal Branding | 2 |

| 10105128 | Personal Branding | 2 |
|----------|----------------------------------------|----|
| 10801196 | Oral/Interpersonal Communication OR | 3 |
| | 10801198 Speech | |
| 10804189 | Introductory Statistics | 3 |
| 10809198 | Introduction to Psychology OR 10809188 | 3 |
| | Developmental Psychology | |
| 10182160 | Global Supply Chain Management | 3 |
| | | 14 |

Term 3

| 10101155 | Accounting for Professionals | 3 |
|----------|------------------------------------------|----|
| 10196188 | Project Management | 3 |
| 10623110 | Lean Six Sigma - Measure and Analyze | 4 |
| 10182114 | Enterprise Resource Planning and Control | 3 |
| 10182115 | Computer Simulation for Operational | 3 |
| | Management | |
| | | 16 |

Torm 4

| | Term 4 | |
|----------|-----------------------------------|----|
| 10182102 | Service Operations Management | 3 |
| 10182122 | Logistics | 3 |
| 10182107 | Portfolio Assessment-Supply Chain | 1 |
| 10623193 | ISO 9001 Internal Auditor | 3 |
| 10809195 | Economics | 3 |
| 10182110 | Negotiations | 3 |
| | | 16 |

TOTAL 60

Credit(s)

ACCOUNTING FOR PROFESSIONALS...is the study of the information that can be interpreted from financial statements. Students analyze financial statements and apply managerial accounting concepts in an accelerated format. PREREQUISITE: 10804123 Math w Business Applications or CONDITION: 101101 Paralegal program requirements met

COMPUTER SIMULATION FOR OPERATIONAL MGMT...introduces the student to simulation software. The course is structured to introduce basic simulation terminology, develop models, and analyze the information derived from modeling. Students will utilize a 3D simulation software to model, simulate, predict, and analyze systems in manufacturing and logistics organizations.

ECONOMICS...provides the participant with an overview of how a market-oriented economic system operates, and it surveys the factors which influence national economic policy. Basic concepts and analyses are illustrated by reference to a variety of contemporary problems and public policy issues. Concepts include scarcity, resources, alternative economic systems, growth, supply and demand, monetary and fiscal policy, inflation, unemployment and global economic issues. COREQUISITE: Reading placement assessment or equivalent

ENTERPRISE RESOURCE PLANNING AND CONTROL...prepares the participant to interpret material requirements planning reports, build a master production schedule, construct capacity plans, and understand sales and operations planning. The curriculum is developed from the American Production and Inventory Controls exam certification's domain of knowledge. PREREQUISITE: 10182131 Supply Chain Management

EXCEL - LEVEL 1...introduces the student to spreadsheet features such as creating, saving, editing, navigating, formatting worksheets; entering formulas and functions; working with charts; and developing multiple-sheet workbooks.

GLOBAL SUPPLY CHAIN MANAGEMENT...introduces the student to supply chain financial transactions which include foreign exchange market, fluctuations of the market, role of the global capital market, major determinants in country risk, methods of foreign market entry, internationalcontracts and commercial documents, export packaging, customs clearance, and global supply chain logistics infrastructure.

INTRODUCTORY STATISTICS...prepares students to display data with graphs, describe distributions with numbers perform correlation and regression analyses, and design experiments. They use probability and distributions to make predictions, estimate parameters, and test hypotheses. They draw inferences about relationships including ANOVA. COREQUISITE: Math placement assessment or equivalent AND Reading placement assessment or equivalent

INTRODUCTION TO PSYCHOLOGY...introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings. COREQUISITE: Reading placement assessment or equivalent

ISO 9001 INTERNAL AUDITOR...is designed to introduce participants to the current ISO 9001 standard. The course is structured to provide a detailed review of the standards, how to document procedures, and how to perform audits. Students will practice preparation for and conducting audits in a local business. Successful completion of this course qualifies the student to receive the ISO 9001 Internal Auditor certificate (19-623-8).

LEAN MANUFACTURING OVERVIEW...expands the learner's ability to develop skills to prioritize and sequence work, execute work plans, implement controls, and create and analyze performance evaluations. It allows the student to explore the execution of quality initiatives and continuous improvement plans in addition to the control and handling of inventories.

LEAN SIX SIGMA - MEASURE AND ANALYZE...provides the student with skills and tools to collect and analyze data to solve problems and improve processes within an organization. Various techniques for process mapping are explored including SIPOC, FMEA, VSM, standard work sheets, and spaghetti diagrams. Statistical tools are explored including probability, confidence intervals, measurement systems analysis, hypothesis testing, and TAKT time analysis to create and implement a data collection plan.

LOGISTICS...introduces the student to business logistics, including the efficient and effective flow of goods, services, and related information from the point of origin to the point of consumption and provides a summary of the role and importance of transportation and an overview of carriers, carrier management, and technology and strategies in logistics. **NEGOTIATIONS...** is an exciting introduction into negotiations where the following topics will be discussed: nature of negotiations, framing, strategy, integrated negotiations, distributed negotiations, communication, perception, bias, leverage, ethics, global negotiations, and managing difficult negotiations. It is a must course for students desiring to exceed in business.

ORAL/INTERPERSONAL COMMUNICATION...provides students with the skills to develop speaking, verbal and nonverbal communication, and listening skills through individual speeches, group activities, and other projects. COREQUISITE: Reading placement assessment or equivalent

PERSONAL BRANDING...focuses on the importance of developing a strong brand identity for yourself as a professional. As a prospective employee, you are constantly selling yourself from how you talk, walk, dress, your facial expressions, and your body language; people are always forming impressions of you. In this course, you will develop a professional resume, cover letter, practice interview skills, and learn the role of social media in career development.

PORTFOLIO ASSESSMENT-SUPPLY CHAIN...prepares the student to identify what they have learned through the supply chain program, write career goals, reexamine their resume, research and collect project samples of their achievements, and analyze their achievements within the college core abilities. PREREQUISITES: 10105128 Personal Branding

PROJECT MANAGEMENT...introduces the learner to explore the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain-related functions. This course addresses three main topics: aligning resources with the strategic plan, configuring and integrating operating processes to support the strategic plan, and implementing change.

PURCHASING...introduces the participant to basic purchasing, quality specifications, inventory control, supplier selection, price aspects, research and measurement, negotiation, and global purchasing. This course is exciting for anyone interested in working in a challenging and rewarding purchasing and supply chain management career.

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WORD - **LEVEL 1**...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.



PART-TIME • EVENINGS SUPPLY CHAIN MANAGEMENT

ABOUT THE PROGRAM

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- · Implement Supply Management practices in a global environment.
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Program Number 10-182-1 Associate Degree in Applied Science

| Catalog No. | Class Title | Credit(s) |
|----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 10182108 10804189 10103191 10623118 10182131 10103121 | Term 1 (Fall 2024) Purchasing Introcutory Statistics Word - Level 1 Lean Manufacturing Overview Supply Chain Management Excel - Level 1 | 3 3 1 3 3 1 14 |
| 10623193 10182122 10809198 10196188 | Term 2 (Spring 2025) ISO 9001 Internal Auditor Logistics Introduction to Psychology Project Management | 3 3 3 3 12 |
| 10801195 | Term 3 (Summer 2025) Written Communication | 3 3 |
| 10182110 10101155 10809195 10105128 | Term 4 (Fall 2025) Negotiations Accounting for Professionals Economics Personal Branding | 3 3 2 11 |
| 10182115 10182102 10623110 | Term 5 (Spring 2026) Computer Simulation for Operational Managem Service Operations Management Lean Six Sigma - Measure and Analyze | ent 3 3 4 10 |
| 10801196 | Term 6 (Summer 2026) Oral/Interpersonal Communication | 3 3 |
| 10182160 10182114 10182107 | Term 7 (Fall 2026) Global Supply Chain Management Enterprise Resource Planning and Control Portfolio Assessment - Supply Chain | 3 3 1 7 |
| | τοτ | AL 60 |
| | | |

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WORD - LEVEL 1...introduces the student to word processing features such as creating, saving, editing, navigating, and formatting the content of multi-page documents.

LAKESHORE TECHNICAL COLLEGE

TECHNICAL STUDIES • JOURNEYWORKER

Program Number 10-499-5 Associate Degree in Applied Science • Varies

ABOUT THE DEGREE

In response to requests for academic recognition of registered apprenticeship training in the state of Wisconsin, the Wisconsin Technical College System provides a Technical Studies—Journeyworker Associate Degree in Applied Science. The Technical Studies—Journeyworker degree is designed to support lifelong learning and accelerate the achievement of individual career goals. Transferability of the Technical Studies portion of this 60-credit associate degree to four-year institutions will be based on the accepting institution's policies.

ABOUT APPRENTICESHIP

Apprenticeships are employer-sponsored training programs. You must have a contract before being invited to school. A special application process is used for these programs. Please contact the Apprenticeship Office for the proper forms. Apprenticeship means you earn while you learn. If you want a career in a skilled trade, apprenticeship is the best way to get there. You'll combine on-the-job training with on-campus learning— you'll have the best of both worlds when it comes to learning the skills you need to get ahead. And even better, you'll earn a paycheck while you learn those skills.

ADVANCEMENT AS A JOURNEYWORKER

As people embark on the path to Journeyworker status in a skilled trade, they often consider the attainment of that card the culmination of their career training. In many cases, this may very well be true. However, in other cases, the holder of a journeyworker card may ask, "What's next?" They may be interested in becoming a business owner or expanding their studies to the bachelor's degree level. There are any number of possible options as one builds a career in the skilled trades. If your career path takes you on a route where a degree beyond the journeyworker card is necessary, then this degree is designed for you.

DEGREE COMPLETION REQUIREMENTS

- Possess a Wisconsin Apprenticeship Completion Certificate issued by the Department of Workforce Development—Bureau of Apprenticeship Standards.
- Complete all WTCS apprentice-related technical instruction with a minimum course grade of C. Possession of the DWD—BAS Wisconsin Apprentice Completion Certificate with at least 400 hours of paid related instruction AND successful completion of all coursework fulfills the 39-credit minimum technical studies requirement of the Technical Studies—Journeyworker Associate Degree in Applied Science.
- Meet the WTCS Associate Degree in Applied Science requirement for a minimum of 15 credits of General Education and 6 additional credits of either general education electives or Associate degree level Technical Studies.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/ financial-aid/tuition-and-fees for details.

SPECIAL NOTE

General Education courses may require completion of the Accuplacer test in order to enroll. Check course pre-requisites for details or speak with the program advisor.

CONTACT

Alison Driscoll, Program Counselor 920.693.1610 • alison.driscoll@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

Catalog No. Class Title

Credit(s)

Occupational Specific

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10499100 BAS/BAT Apprenticeship Completion 39
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General Education (21 Credits)

| Communication: 6 Credits Required | 6 |
|-------------------------------------------------|-----|
| Social Science: 3 Credits Required | 3 |
| Behavioral Science: 3 Credits Required | 3 |
| Math OR Science: 3 Credits Required | 3 |
| General Education Electives or Associate Degree | . 6 |
| Level Technical Studies: 6 Credits Required | |
| | |

TOTAL 60

BAS/BAT APPRENTICESHIP COMPLETION...requires the completion of a BAS approved apprenticeship which includes a minimum of 400 hours of paid related instruction.



TOOL AND DIE • APPRENTICE

Program Number 50-439-3

5-Year Contract

Work Hours (including related instruction): 10,000 Related Instruction Hours: 576 • Night School Hours: 8

ABOUT APPRENTICESHIP

Apprenticeships are employer-sponsored training programs. You must have a contract before being invited to school. A special application process is used for these programs. Please contact the Apprenticeship Office for the proper forms. Apprenticeship means you earn while you learn. If you want a career in a skilled trade, apprenticeship is the best way to get there. You'll combine on-the-job training with on-campus learning— you'll have the best of both worlds when it comes to learning the skills you need to get ahead. And even better, you'll earn a paycheck while you learn those skills.

ABOUT THE CAREER

Tool and die makers are vital to the metal-working industry because they produce the tools, dies, and special grinding and holding devices used in mass production. The Tool and Die Apprenticeship program is an employer-sponsored, hands-on training program. If you like working with mechanical technology/ manufacturing processes and you value and can work with exacting precision, your talents fit perfectly with a career as a journey-level tool and die maker.

CAREERS

Graduates of LTC's Tool and Die Apprenticeship program work as journey-level tool and die makers in a variety of manufacturing/industrial settings.

INDUSTRIAL APPRENTICE ACCEPTANCE REQUIREMENTS

- Determined by employer
- Wisconsin Apprentice Contract

PROGRAM OUTCOMES

- · Inspect parts and material.
- Apply knowledge of milling machine operations, including manual and/or CNC controlled.
- Apply principles of drilling machine operations, including manual and/or CNC controlled.
- · Compare turning machine operations, including manual an/or CNC controlled.
- Explore precision grinding machine operations including manual and/or CNC controlled.
- · Compare cut-off machine operations, including manual and/or CNC controlled.
- Apply metallurgical principles to materials and work processes.
- · Compare practices for assemling parts per specifications.
- Design jigs and fixtures.

 Summarize practices to produce dies for a variety of machining and manufacturing operations.

APPROXIMATE COSTS

Contact the LTC Apprenticeship office or visit www.gotoltc.edu/apprenticeship for detailed information.

SPECIAL NOTE

You must have a sponsoring employer and a contract before attending school.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with the Apprenticeship Office for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

| Catalog No. | Class Title | Credit(s) |
|----------------------|----------------------------------------------------------------------------------------------------------|-----------------------|
| 50420714 | Term 1 Engineering Drawings for Machine Trades Apprentice 1 | 1 |
| 50420713 | Precision Measurement for Machine Trades | |
| | Term 2 | 2 |
| 50420734 50420715 | Mathematics for Machinist Apprentic Mechanical Hardware and Hand Too for Machine Trades Apprentice | |
| 50420720 | Materials and Cut-Off Machines for Machine Trades | 0.5 |
| | Term 3 | 2 |
| 50420721 50420722 | Math for Machine Trades 2 Engineering Drawings for Machine Trades 2 | 0.5 0.5 |
| 50420718 | Drilling Machines for Machine Trades Apprentice | s 0.5 |
| 50420717 | Milling Machines for Machine Trades Apprentice | 0.5 |
| | Apprentice | 2 |
| 50420724 | Term 4 CNC Programming and Planning for | 1 |
| 50420716 | Machine Trades Turning Machines for Machine Trade | s 0.5 |
| 50420723 | Apprentice Intro to CAM for Machine Trades | 0.5 |
| | Apprentice | 2 |
| 50420725 | Term 5 Basic CAD/CAM for Machine Trades | 1 |
| 50420726 | Apprentice Jig and Fixture Design for Machine | 0.5 |
| 50420719 | Trades Apprentice Grinding Machines for Machine Trad | es 0.5 |
| | Apprentice | 2 |
| | Term 6 | - |
| 50420733 | CNC Operations for Machine Tool Tra Apprentice | ades 1 |
| 50420727 | Geometric Design and Tolerancing for Machine Trades | or 0.5 |
| 50420731 | Metallurgy for Machine Trades Appren | ntice 0.5 2 |
| 50420732 50420728 | Term 7 Electrical Discharge Machining for Ma Basic Stamping Diemaking for Mach Trades | |
| | Term 8 | 2 |
| 50420730 | Stamping Die Design Applications fo Machine Trades Apprentice | r 1 |
| 50420729 | Mold Making for Machine Trades Apprentices | 1 |
| | дристиссэ | 2 |
| | то | TAL 16 |

BASIC CAD/CAM FOR MACHINE TRADES APPRENTICE...is designed to provide concepts and techniques used in computer-aided design (CAD) and computeraided manufacturing (CAM) as part of their related instruction. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

BASIC STAMPING DIEMAKING FOR MACHINE TRADES...introduces the basics of stamping diemaking. Topics include basic terminology, blanking, piercing, bending and related basic operations. In addition, learners will discover the basics of the theory and background knowledge related to stamping diemaking. CONDITION: 504393 Tool and Die Apprentice program requirements met

CNC OPERATIONS FOR MACHINE TOOL TRADES APPRENTICE...will examine CNC related operations and safety. Course competencies include classifying types of equipment, comparing CNC tooling, setup, and work holding operations. Additional CNC programming skill development is included in the course. CNC controls and communications are explored as well. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

CNC PROGRAMMING AND PLANNING FOR MACHINE TRADES...is a classroom introduction to CNC programming for apprentices, with a focus on CNC turning and milling centers. Apprentices will create set up sheets, develop tool lists, calculate speeds and feeds, assign tool offsets and write CNC program. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program reqs met

DRILLING MACHINES FOR MACHINE TRADES APPRENTICE...focuses on safety, terminology, construction and operations of drilling machines in the metal-working industry. CONDITION: 504393 Tool & Die Appr or 504202 Machinist Appr Prog Reqs Met

ELECTRICAL DISCHARGE MACHINING FOR MACHINE...is designed to give a basic understanding of the theory and process of sinker and wire EDM in toolmaking. This course uses the EDM Technical Manual distributed by POCO Graphite, Inc., which contains the most current information available in industry. CONDITION: 504393 Tool and Die Apprentice program requirements met

ENGINEERING DRAWINGS FOR MACHINE TRADES APPRENTICE 1... will acquaint the apprentice with the interpretation of engineering prints and other technical and manufacturing documentation. The primary focus of the course will be on that part of manufacturing most closely related to machining and tooling. Background information is provided relative to the process used to create and finish the product or piece part on the prints being studied. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

ENGINEERING DRAWINGS FOR MACHINE TRADES 2...prepares the learner to interpret manufacturing prints to extract detailed information about threads, sections, auxiliary views, fasteners, surface finishes, welding symbols, assembly, geometric location, and tolerances. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

GEOMETRIC DESIGN AND TOLERANCING FOR MACHINE TRADES... will acquaint the apprentice with the skills to interpret the geometric dimensions and tolerances found on engineering drawings and in other industrial documents. Instruction concentrates on interpreting the symbols, identifying tolerance zones and determining ways to check parts for conformity to the specified geometric controls. Reference is made to ASME Y14.5M - 1994. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

GRINDING MACHINES FOR MACHINE TRADES APPRENTICE...focuses on the safety, terminology, construction, and operation of grinding machines in the metal working industry. It instructs apprentices in the use of traditional grinding machines and the attachments and accessories frequently encountered in manufacturing operations that use the common grinding processes. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

INTRO TO CAM FOR MACHINE TOOLS TRADES APPRENTICE...is widely used in industry for creating G&M code programs for CNC machines. In this course the learner will explore the Mastercam interface. You will be determining the proper post processors for the work being done. Create and edit basic geometry. Create and edit tool paths for basic operations. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

JIG AND FIXTURE DESIGN FOR MACHINE TRADE APPRENTICE ...

introduces the apprentice to the concepts of jig and fixture design as part of their apprentice related instruction. Topics include the basic elements of tool design, jig and fixture application, and the actual design of tooling. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

MATERIALS AND CUTOFF MACHINES FOR MACHINE TRADES...prepares the learner to identify metal composition and classification, follow cutoff machine tool safety rules, operate horizontal cutoff machine tools, and operate vertical machine tools. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met MATH FOR MACHINE TRADES 2...prepares the learner to interpret symbols used in algebraic expressions, solve equations by the rearrangement of formulas, use formulas, solve unknown angles using angular principles, and solve for the angles and length of sides in right triangles. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

MATHEMATICS FOR MACHINIST APPRENTICE 1...provides applied mathematics instruction from a review of basic arithmetic; basic algebra; applications based on geometry; right triangle trigonometry and oblique angle trigonometry; and compound angles. CONDITION: 504393 Tool and Die Apprentice or504202 Machinist Apprentice program requirements met

MECHANICAL HARDWARE & HAND TOOLS FOR MACHINE TRADES APPRENTICE... provides instruction for the apprentice in the recognition, selection, and operation of

mechanical hardware and hand tools. Apprentices are taught to use outside sources to select correct component or tool sizes, characteristics, and operating parameters. Apprentices will sharpen drills and single point cutting tools. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program reqs met

METALLURGY FOR MACHINE TRADES APPRENTICES...prepares the learner to interpret the properties of ferrous and non-ferrous materials as well as how to heat treat and test the hardness of ferrous materials. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice Program Requirements Met

MILLING MACHINES FOR MACHINE TRADES APPRENTICE...will instruct apprentices on the basic principles of vertical and horizontal milling machines for the machine tool trade. Instruction includes safety, basic parts and functions of the machines, work holding devices, tooling requirements, and feeds and speeds. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

MOLD MAKING FOR MACHINE TRADES APPRENTICES...introduces the apprentice to the basic mold die making process consisting of mold construction, components, and materials. CONDITION: 504393 Tool and Die Apprentice program requirements met

PRECISION MEASUREMENT FOR MACHINE TOOL TRADES...is designed to acquaint the apprentice with the measurement systems and tools most frequently used in layout and machining processes. Learning outcomes relate to semi-precision through super-precision measuring tools and equipment combined with opportunities to investigate new technologies. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met

STAMPING DIE DESIGN APPLICATIONS FOR MACHINE TRADES APPRENTICE... provides the stamping die maker apprentice with the opportunity to design from part specifications two elementary stamping dies. This course provides instruction for the tool and die, stamping die and mold makers apprenticeship. CONDITION: 504393 Tool and Die Apprentice program requirements met

TURNING MACHINES FOR MACHINE TRADES APPRENTICE...will acquaint the apprentice with the terminology, methods, and operations for turning machines used in the metal-working industry. Apprentices will learn to perform calculations needed to operate turning machines including speed and feed calculations. Apprentices will make calculations necessary to setup a turning machine for screw threads and taper operations. CONDITION: 504393 Tool and Die Apprentice or 504202 Machinist Apprentice program requirements met



WELDING FABRICATION TECHNICIAN

Program Number 32-457-1 **Technical Diploma • Two Terms**

Credit(s)

ABOUT THE PROGRAM

Develop the skills you need to pursue a great career in metal fabrication and welding. In this program, the learner will discover the wonderful world of welding and fabrication through the use of the three major electrical welding processes: Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), and Gas Tungsten Arc Welding (GTAW). Learners will weld in all positions preparing you for a career in many fields of work, including manufacturing, shipbuilding, custom fabrication and pipe welding. Learners will perfect their welding technique on mild steel, stainless steel and aluminum with a thickness range of 16 gauge up to one inch thick. Learners will perfect their weld quality techniques by using visual inspection and destructive testing. Throughout this program, the learner will apply math and print reading to today's industry standards. In this technical diploma, learners will set up, program, and use metal cutting and forming equipment to produce steel fabrication to industry specifications. Learners will be introduced to Lean manufacturing by applying their welding and fabrication skills in an automated fabrication cell to include robotic welding.

PROGRAM OUTCOMES

- · Demonstrate industry recognized safety practices.
- Form materials to detailed drawings.
- Cut materials to detailed drawings.
- Join materials to detailed drawings.
- Layout components/assemblies.
- Inspect product.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

Welding program course content prepares students for numerous state and national certifications. None are required to complete the program; there are additional costs for testing/certification. The College does not guarantee its curriculum matches the requirements for preparation, examinations, or licensure for other states.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | Class Title |
|-------------|-------------|
| | Torm 1 |

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| 10442100 | Safety and Welding Fundamentals | 1 |
|----------|------------------------------------------|----|
| 31442308 | Weld Examination | 1 |
| 31442350 | Metal Manufacturing Processes | 1 |
| 31442351 | Precision Measurement and Layout | 1 |
| 31442310 | SMAW-Flat Position (Stick) | 1 |
| 31442312 | SMAW-Horizontal Position (Stick) | 1 |
| 31442314 | SMAW-Vertical Position (Stick) | 1 |
| 31442316 | SMAW-Overhead Position (Stick) | 1 |
| 31442320 | GMAW-Flat Position (Wire/Mig) | 1 |
| 31442322 | GMAW-Horizontal Position (Wire/Mig) | 1 |
| 31442324 | Flux Core Arc-Flat/Horizontal Position | 1 |
| 31442326 | Flux Core Arc-Vertical/Overhead Position | 1 |
| 31442304 | Welding Submerged Arc (SAW) | 1 |
| 31442330 | GTAW Mild Steel Flat/Horizontal Position | 1 |
| 31442332 | GTAW Mild Steel Out of Position | 1 |
| | (Heli-Arc/TIG) | |
| 31442334 | GTAW Stainless/Aluminum Horizontal | 1 |
| | Positions | |
| 31442336 | GTAW Stainless/Aluminum Out of Position | 1 |
| 31442318 | Pipe Welding Fundamentals | 1 |
| 31442382 | Welding Math Basics | 1 |
| 31442385 | Weld Print 1 Print Fundamentals | 1 |
| 31442340 | Welding Advance Process 1 | 1 |
| 31442342 | Welding Advance Process 2 | 1 |
| 31442357 | Welding Fabrication Introduction | 2 |
| 31442343 | Weld Print 2 Weld/Welding Symbols | 1 |
| 31801361 | Interpersonal Skills | 1 |
| 31801360 | Workplace Fundamentals | 1 |
| | | 27 |

Term 2

| 31442301 | Advanced Pipe Welding 1 | 1 |
|----------|------------------------------------|----|
| 31442303 | Advanced Pipe Welding 2 | 1 |
| 31442305 | Advanced Pipe Welding 3 | 1 |
| 31442325 | Advanced Pipe Welding Processes | 1 |
| 31442307 | Welding Measurement 2 | 1 |
| 31420338 | Drills and Saws | 1 |
| 31420350 | Manual Mill Operation | 1 |
| 31420340 | Manual Lathe Operation | 1 |
| 31442309 | Weld Print 3 for Fabricators | 1 |
| 31442337 | Weld Inspection and Processes | 1 |
| 31442339 | Metal Finishing | 1 |
| 10620167 | Robotics-Teach Pendant/Controls | 1 |
| 10620179 | Robotics-Editing Programs | 1 |
| 31442327 | Robotic Welding 1 | 1 |
| 31442329 | Robotic Welding 2 | 1 |
| 31457331 | Fabrication 1 | 2 |
| 31457333 | Fabrication 2 | 2 |
| 31457343 | Fabrication 3 | 2 |
| 31457335 | Fabrication Design and Application | 2 |
| 31449301 | Industrial Safety | 1 |
| 31442384 | Welding Geometry and Formulas | 1 |
| 10606113 | SolidWorks 1-Modeling Fundamentals | 2 |
| | | 27 |

TOTAL 54

Please see Industrial Welding for Term 1 course descriptions.

ADVANCED PIPE WELDING 1...will have learners producing quality pipe welds in the flat and horizontal positions. Pipe to Pipe and Socket welds will be made by using Gas Metal Arc Welding, Shielded Metal Arc Welding and the Gas Tungsten Arc Welding processes. Learners will use WPS's (welding procedure specifications sheet) of pipe welding for mild steel in accordance with various welding codes. COREQUISITES: 31442326 Flux Core Arc-Vertical/Overhead Position, 31442316 SMAW-Overhead Position (Stick), and 31442336 GTAW Stainless/Aluminum Out of Position

ADVANCED PIPE WELDING 2...will have learners weld pipe to pipe and socket welds in the 4F, 5F, and 5G positions. Pipe to Pipe and Socket welds will be made by using the Flux Core Arc Welding, Shield Metal Arc Welding and the Gas Tungsten Arc Welding processes. Learners will use WPS's (welding procedure specifications sheet) of pipe welding for mild steel in accordance with various welding codes. COREQUISITE: 31442301 Advanced Pipe Welding 1

ADVANCED PIPE WELDING 3...will teach learners to weld pipe to pipe and socket welds in the 6F and 6G positions. Pipe to Pipe and Socket welds will be made by using the Flux Core Arc Welding, Shield Metal Arc Welding and the Gas Tungsten Arc Welding processes. Learners will use WPS's (welding procedure specifications sheet) of pipe welding for mile steel in accordance with various welding codes. COREQUISITE: 31442303 Advanced Pipe Welding 2

ADVANCED PIPE WELDING PROCESSES...instructs the learner to weld a piping spool project. They will layout, cut, grind, bevel, fir and pressure test. The spool project will be welded using the GTAW, SMAW, GMAW and the FCAW processes. The learner will have the opportunity to test for the state certification in the 6G pipe position. The learner will choose either the SMAW or the GMAW/FCAW welding processes. All welding will be completed using welding practices and will be in accordance with the AWS and ANSI steel code. COREQUISITE: 31442305 Adv Pipe Welding 3

DRILLS AND SAWS...learner will demonstrate use of sawing and drilling machines safely. COREQUISITE: 31420310 Shop Tools and Fasteners or PREREQUISITES: 31420394 Industrial Maintenance Machine Tool Intro or 10420194 Machine Tool Intro or CONDITION: 324571 Welding Fab Tech enrollment requirements met

FABRICATION 1...teaches the basics of metal fabrication safety, production, measuring, hand tools, and layout. Learn how to use shears, forming, press brakes, box and pan brakes, and slip rollers. Learners will demonstrate proficiency in metal fabrication through related projects. COREQUISITE: 31442307 Welding Measurement 2 and 31442309 Weld Print 3 for Fabricators

FABRICATION 2...teaches the advanced process of forming product using automated and manual equipment. Demonstrate proficiency of forming by choice of tooling, calculations and sequence of forming. COREQUISITES: 10606101 AutoCAD-2D Computer Aided Design and 31457331 Fabrication 1 or PREREQISITE: 31442331 Fabrication 1

FABRICATION 3...teaches the advanced processes of material processing using automated and manual equipment. Demonstrate proficiency of CNC programming for automated Laser cutting processes. Demonstrate proficiency in laser cutting by proper set-up and shutdown, cutting conditions, program processing and gas selection based on material. COREQUISITE: 31457333 Fabrication 2

FABRICATION DESIGN AND APPLICATION...will have learners set-up, program, operate, weld, assemble, inspect, and finish/coat to complete metal fabrication projects and provide shop routings to demonstrate comprehension of process control in a manufacturing facility. Maintain safety in the shop for all operations with hand tools and machinery. COREQUISITE: 31457343 Fabrication 3

INDUSTRIAL SAFETY...utilizes advanced, lab-based, hands-on, and table-top interaction. Competencies focus on recognizing and promoting safe work programs. It is 'deep dive' training on; OSHA, forklift, personal protective equipment, hazards communication, hazardous materials, lockout/tagout, fall protection/confined space, emergency planning, fire prevention and suppression, CPR/AED/First-Aid, and electronic technology. You receive an OSHA 10-Hour and American Heart Association certification.

MANUAL LATHE OPERATION...prepares the learner to perform lathe facing, turning, hole producing and threading operations safely. COREQUISITE: 31420310 Shop Tolls and Fasteners or 31420394 Ind Mtnc Machine Tool Introduction or 10420194 Machine Tool Introduction or CONDITION: 324571 Welding Fabrication Technician, 104622 Electro-Mech Maintenance Technician, or 314622 Maintenance Mechanic program requirements met

MANUAL MILL OPERATION...prepares the learner to perform squaring, slot milling and hole producing using a vertical mill machine safely. COREQUISITE: 31420310 Shop Tools and Fasteners or 31420394 Ind Mtnc Machine Tool Intro or 10420194 Machine Tool Intro or CONDITION: 324571 Welding Fabrication Technician, 104622 Electro-Mech Maintenance Technician, or 314622 Maintenance Mechanic program requirements met

METAL FINISHING...provides learning so that the student will develop and demonstrate skills needed to properly finish weldments. Surface finish is an important element in any specification of steel or alloys regardless of the intended use. Students will demonstrate proficiency in grinding and finishing procedures within given tolerances for surface finish and flatness.

ROBOTIC WELDING 1...prepares the learner to perform basic robotic welding skills on the five major joints used in industry, how to load weld programs for their welding joints, and demonstrate safety practices associated with robotic welding. PREREQUISITE: 31620335 Introduction to Robotics 2 or COREQUISITE: 10620167 Robotics-Teach Pendant/Controls

ROBOTIC WELDING 2...builds upon learner's knowledge and skill of the world of robotic welding. In this course, students will learn how to weld around pipe that is 2" in diameter and larger, V-grooves and creating fixtures for different welding joints that will be used during this credit. COREQUISITE: 31442327 Robotic Welding 1 and 10620179 Robotics-Editing Programs

ROBOTICS-EDITING PROGRAMS...teaches troubleshooting and repairing issues in a robot program. COREQUISITE: 10620167 Robotics-Teach Pendant/ Controls

ROBOTICS-TEACH PENDANT/CONTROL...instructs students on using a teach pendant to control a robot. COREQUISITE: 10620179 Robotics-Editing Programs

SOLIDWORKS 1-MODELING FUNDAMENTALS...introduces the students to the concepts and commands of parametric solid modeling. Students create sketches and add relationships to the sketch segments, extrude the sketches to create models, and add features such as fillets, cut extrude, chamfers, holes, draft, shell, lofts and sweeps. Emphasis is placed on the design intent of the parametric solid models.

WELD INSPECTION AND PROCESSES...will teach welding metallurgy, metal properties and destructive testing/ The learner will demonstrate proper evaluation of weld and base metal discontinuities. The learner will be introduced to VT and other NDE methods. COREQUISITES: 31442307 Welding Measurement 2

WELD PRINT 3 FOR FABRICATORS...prepares the learner to recognize and use pipe welding symbols, dual dimensioning, analyze metric units and how they can impact print reading, Inspection and Testing by the use of destructive testing symbols, and non-destructive testing symbols, understanding the International Standards symbols for welding, interpret Geometric Dimensioning and Tolerancing characteristic and symbols. COREQUISITE: 31442343 Weld Print 2 Weld/Welding Symbols

WELDING GEOMETRY AND FORMULAS...prepares the learner with the necessary skills to use scientific calculators for the application of solving problems of ratio and proportion, precision, and accuracy in measurements, unit conversions, direct-length measurements, pre-algebra, and simple and complex equations using algebra concepts. The class is designed for individualized student needs. This is credit two of the two-credits needed for the Welding program. COREQUISITE: 31442382 Welding Math 1 test out or equivalent

WELDING MEASUREMENT 2...provides the learner with the skills to: Use precision handheld measuring tools and the use of semi-precision measuring tools, and use of layout and measurement tools to fabricate steel projects. COREQUISITE: 31442351 Precision Measurement and Layout

WELDING • INDUSTRIAL

Program Number 31-442-1 Technical Diploma • One Term

ABOUT THE PROGRAM

Evidence of welders' work is all around us—everything from battleships, cars, and piping to the amazing dome on the U.S. Capitol Building. If you like hands-on work, have solid math and reading skills, are dedicated to accuracy, and have an eye for detail, welding is the perfect career for you.

PROGRAM OUTCOMES

- · Demonstrate industry-recognized safety practices.
- · Interpret welding drawings.
- · Produce shielded metal arc welds (SMAW).
- · Produce gas metal arc welds (GMAW).
- · Produce flux core welds.
- Produce gas tungsten arc welds (GTAW).
- Perform thermal cutting.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

*Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program is eligible for financial aid. Visit gotoltc.edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at gotoltc.edu/cbe.

This program is available in a part-time evening and full-time day offering. All classes meet the American Welding Society requirements.

Welding program course content prepares students for numerous state and national certifications. None are required to complete the program; there are additional costs for testing/certification. The College does not guarantee its curriculum matches the requirements for preparation, examinations, or licensure for other states.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

REAL EXPERIENCE FOR THE REAL WORLD

| Catalog No. | Class Title | Credit(| s) |
|-------------|------------------------------------------------|---------|----|
| 10442100 | Safety and Welding Fundamentals | | 1 |
| 31442308 | Weld Examination | | 1 |
| 31442350 | Metal Manufacturing Processes | | 1 |
| 31442351 | Precision Measurement and Layout | | 1 |
| 31442310 | SMAW-Flat Position (Stick) | | 1 |
| 31442312 | SMAW-Horizontal Position (Stick) | | 1 |
| 31442314 | SMAW-Vertical Position (Stick) | | 1 |
| 31442316 | SMAW-Overhead Position (Stick) | | 1 |
| 31442320 | GMAW-Flat Position (Wire/Mig) | | 1 |
| 31442322 | GMAW-Horizontal Position (Wire/Mig |) | 1 |
| 31442324 | Flux Core Arc-Flat/Horizontal Position | ı | 1 |
| 31442326 | Flux Core Arc-Vertical/Overhead Pos | ition | 1 |
| 31442304 | Welding Submerged Arc (SAW) | | 1 |
| 31442330 | GTAW Mild Steel Flat/Horizontal Pos | ition | 1 |
| 31442332 | GTAW Mild Steel Out of Position (Heli-Ar | c/TIG) | 1 |
| 31442334 | GTAW Stainless/Aluminum Horizonta Positions | ıl | 1 |
| 31442336 | GTAW Stainless/Aluminum Out of Po | sition | 1 |
| 31442318 | Pipe Welding Fundamentals | | 1 |
| 31442382 | Welding Math Basics | | 1 |
| 31442385 | Weld Print 1 Print Fundamentals | | 1 |
| 31442340 | Welding Advance Process 1 | | 1 |
| 31442342 | Welding Advance Process 2 | | 1 |
| 31442357 | Welding Fabrication Introduction | | 2 |
| 31442343 | Weld Print 2 Weld/Welding Symbols | | 1 |
| 31801361 | Interpersonal Skills | | 1 |
| 31801360 | Workplace Fundamentals | | 1 |

TOTAL 27

FLUX CORE ARC-VERTICAL/OVERHEAD POSITION...teaches the learner to use safe shop work practices while creating welds in the vertical and overhead positions, Learners will create fillet and grooves welds in vertical and overhead positions. Students will be introduced to pipe welding while using the FCAW welding process. COREQUISITE: 31442324 Flux Core Arc-Flat/Horizontal Position

FLUX CORE ARC-FLAT/HORIZONTAL (WIRE/MIG)...will have learners demonstrate safe shop working practices while welding fillet welds in flat and horizontal positions using the FCAW welding process. Learners will perform single bevel groove welds and V-groove welds in flat and horizontal positions using the FCAW, and will perform groove welds with and without backing material. COREQUISITE: 31442322 GMAW-Horizontal Position (Wire/Mig)

GMAW-FLAT POSITION (WIRE/MIG)...prepares the learner to demonstrate safe shop work practices; learners will perform set up and shut down of GMAW and MCAW equipment; weld mild steel using the GMAW and MCAW welding processes, and weld in the flat position using the GMAW process. PREREQUISITE: 31442300 Welding Intro or COREQUISITES: 10442100 Safety and Welding Fundamentals or 31442346 Industrial Maint Welding Intro or 31442345 Auto Servicing Welding

GMAW-HORIZONTAL POSITION (WIRE/MIG)...will use safe shop work practices while producing 3/4" fillet welds using the GMAW and MCAW welding processes and 1/4" fillet welds while welding tube to plate in the horizontal position. Learners will produce groove weldments in flat and horizontal positions, using .035 hard wire, .052 Metal Core and Metal electrode wires. COREQUISITE: 31442320 GMAW-Flat Position (Wire/Mig)

GTAW MILD STEEL FLAT/HORIZONTAL POSITION...teaches the learner to use safe shop work practices while creating welds in the flat and horizontal positions. Learners will create fillet and grooves welds in flat and horizontal positions on mild steel while using the GTAW welding process. PREREQ: 31442300 Welding Intro or COREQS: 10442100 Safely & Welding Fund or 31442346 Ind Maint Welding Intro or 31442345 Auto Serv Weld

GTAW MILD STEEL OUT OF POSITION...teaches the learner to use safe shop work practices while creating welds in the vertical and overhead positions. Learners will create fillet and grooves welds in vertical and overhead positions on mild steel while using the GTAW welding process; learner will be introduced to the GTAW Pulse welding process while welding mild steel in the 2F position. COREQ: GTAW Mild Steel Flat/Horizontal Position

GTAW STAINLESS/ALUMINUM HORIZONTAL POSITION...teaches the learner to use safe shop work practices while creating welds in the flat and horizontal positions. Learners will create fillet and grooves welds in flat and horizontal positions on Stainless Steel and Aluminum while using the GTAWP/GTAW welding process. The learner will also learn how to minimize oxidation in stainless steel during the welding process, welding thin SST in the 1G & 2G positions and proper food grade post weld cleanup to these joints. COREQUISITE: GTAW Mild Steel Out of Position (Heli-Arc/TIG)

GTAW STAINLESS/ALUMINUM OUT OF POSITION...teaches learner to use safe shop work practices while creating welds in the vertical and overhead positions. Learners will create fillet and grooves welds in vertical and overhead positions on Stainless Steel and Aluminum while using the GTAWP/GTAW welding process. Learners will be introduced to a welding technique called "walking the cup" and will make fillet welds in the 1F position on 1/4" mild steel. COREQUISITE: GTAW Stainless/Aluminum Horizontal Positions

INTERPERSONAL SKILLS...prepares the learner to model interpersonal skills, ethics and diversity.

METAL MANUFACTURING PROCESSES...prepares learner to communicate using proper terminology that is used in industry as it pertains to the use of hand/power tools and measurement. Learner will demonstrate good safety practices while in a workplace environment, demonstrate the proper use of hand and power tools. Learner will complete steel fabrications using hand/power tools and classify and install industrial fasteners. Learner will be introduced to material handling operations by using the overhead crane and forklift. COREQS: 31442351 Precision Msrmnt & Layout and 10442100 Safety & Weld Fund or 31442346 Indust Maint Welding Intro or 31442345 Auto Servicing Welding or PREQ: 31442300 Welding Intro

PIPE WELDING FUNDAMENTALS...teaches the learner to use safe shop work practices while creating welds as it pertains to pipe welding. The learner will weld circumferential padding plates and groove welds in the flat position. Students will make 1/4" and 3/8" fillets in the 2F position while using the SMAW, FCAW and GTAW welding processes. Learners will weld T, Y, K connection welds in the flat and horizontal positions while using the SMAW, GMAW, FCAW and GTAW welding processes. COREQUISITES: 31442326 Flux Core Arc-Vertical/Overhead Position, 31442316 SMAW-Overhead Position (Stick), and 31442336 GTAW Stainless/Aluminum Out of Position

PRECISION MEASUREMENT AND LAYOUT...prepares the learner to communicate proper measurement terminology that is used in industry; will develop safety practices for the workplace while using measuring equipment; proper use of measuring equipment and obtain measurement readings from Measuring equipment; layout steel fabrication using hand measuring devices and layout equipment. The learner will inspect and analyze a variety of steel fabrications while using measuring equipment.

SAFETY AND WELDING FUNDAMENTALS...introduces the learner to the world of welding, weld shop safety practices, welding terminology, and welding machine setup to industry standards. Learners will be introduced to the three major welding processes: SMAW, GMAW, and GTAW and will build skills welding with each process in the flat and horizontal positions while using the common welding joints found in industry. The learner will process material using the two major hand-held cutting processes - Oxyfuel and PAC.

SMAW-FLAT POSITION (STICK)...prepares the learner to demonstrate safe shop work practices; make bead on plate welds on mild steel; make padding plate welds on mild steel; make fillet welds in 3/8" mild steel plate in the flat and horizontal positions; and make groove welds in mild steel plate. PREREQUISITE: 31442300 Welding Intro or COREQUISITES:10442100 Safety and Welding Fundamentals or 31442346 Industrial Maint Welding Intro or 31442345 Auto Servicing Welding

SMAW-HORIZONTAL POSITION (STICK)...teaches the learner to use safe shop work practices while creating welds in the horizontal position; make horizontal padding plate welds on 1/2" mild steel with E7018 electrode; 1/4", 3/8" and 3/4" fillet welds in the horizontal position, 1/4" fillet welds on round and square tubing; perform Groove welds in the horizontal position. COREQUISITE: 31442310 SMAW-Flat Position (Stick)

SMAW-OVERHEAD POSITION (STICK)...teaches learner to use safe shop work practices while creating welds in the overhead position. Learners will create fillet welds and groove welds in the overhead position. Learners will be introduced to pipe welding while using the SMAW welding process. COREQUISITE: 31442314 SMAW-Vert Position (Stick)

SMAW-VERTICAL POSITION (STICK)...teaches the learner to use safe shop work practices while creating welds in the vertical position; Students will experience the art of welding in the vertical position. To understand the vertical position, students will perform padding plates and fillet welds in the vertical position; Groove welds in the vertical position. Groove welds will be with and without backing. COREQUISITE: 31442312 SMAW-Horizontal Position (Stick)

WELD EXAMINATION...is a study of the basic principles of weld quality. Emphasis will be on identifying and testing ferrous and non-ferrous materials. Learners will be introduced to hardening of ferrous material using the Oxyfuel process. The learner will be introduced to the inspection process of welds through NDT (non-destructive testing) and DT (destructive testing).

WELD PRINT 1 PRINT FUNDAMENTALS...prepares learner to interpret manufacturing drawing by applying orthographic projection principles, by recognizing types of lines used in print reading. How manufacturing prints are dimensioned. Develop print reading strategies by locating the bill of materials, title blocks, and revision blocks. Learners will be introduced to the AWS welding symbols and how they relate to manufacturing drawing.

WELD PRINT 2 WELD/WELDING SYMBOLS...prepares the learner to indicate key elements of a welding drawing, identify common joint types and edge preparations, correlate welds with basic joint types, distinguish between the different types of welds and their respective symbols, Identify the location of a weld with respect to the joint using the elements included on a print and explain the rules governing the use of the arrow, reference line, supplementary symbols, and combined welding symbols. COREQUISITE: 31442385 Weld Print 1 Print Fundamentals

WELDING ADVANCE PROCESS 1...the learner will demonstrate safe shop working practices while welding out of position. The Learner will perform V-groove welds in the 3G and 4G position using the SMAW, FCAW and GTAW welding processes. Students will perform CAC cutting and be introduced to dye penetrant testing. Students will create intermittent fillet welds in the horizontal position using the GMAW welding processes. COREQUISITES: 31442326 Flux Core Arc-Vertical/Overhead Position, 31442316 SMAW-Overhead Position (Stick), and 31442336 GTAW Stainless/Aluminum Out of Position

WELDING ADVANCE PROCESS 2...the learner will demonstrate safe shop working practices while welding out of position. The learner will perform V-groove welds in the 3G and 4G position using the SMAW, FCAW and GTAW welding processes. By creating these Grooves, the student will have an opportunity to become a certified welder with the AWS. Students will create staggered intermittent fillet welds in the 2F position using the SMAW welding processes. COREQUISITE: 31442340 Welding Advance Process 1

WELDING FABRICATION INTRODUCTION...introduces the learner to various methods of steel fabrication. The learner will produce steel fabrications from assembly drawings which would include the learner's ability to read and interpret simple drawings, Create sketches using appropriate welding symbols, follow written procedures, and process materials parts to proper size to fit steel fabrications. Learners will be introduced to metal finishing techniques needed to complete steel fabrications. COREQUISITE: 31442385 Weld Print 1 Print Fundamentals and 31442342 Welding Advance Process 2 or 31442342S3 Welding Advance Process 1B (Stick) or 31442342M3 Welding Advance Process 1B (Mig) or 31442342T3 Welding Advance Process 1B (Mig) or

WELDING MATH BASICS...provides the learner with the necessary skills to solve problems involving whole numbers, fractions, and decimal numbers using pad and pencil and calculator. The course is designed for individualized student needs. This is credit one of the two math credits need for the Welding program.

WELDING SUBMERGED ARC (SAW)...is a common arc welding process. It requires a continuously fed consumable electrode. The molten weld and the arc zone are protected from atmospheric contamination by being "submerged" under a blanket of granular fusible flux. The learner will interpret SAW terminology, setup and shut down of SAW equipment, SAW weld safety; and perform SAW welds in the flat position. COREQUISITES: 31442326 Flux Core Arc-Vent/Overhead and PREQUISITE: 31442300 Welding Intro or COREQUISITES: 10442100 Safety and Welding Fundamentals or 31442346 Industrial Maint Welding Intro or 31442345 Auto Servicing Welding

WORKPLACE FUNDAMENTALS...prepares the learner to incorporate problem solving, creativity and communication skills into daily workplace habits.



WIND TECHNICIAN

Program Number 31-482-1 **Technical Diploma • Two Terms**

ABOUT THE PROGRAM

The wind energy industry is one the fastest growing segment of energy production. Demand for skilled technicians is growing. The Bureau of Labor Statistics lists Wind Turbine Technician as one of the fastest growing careers. Upon completion you have the ability to become an operations and maintenance technician, installation technician, tower torque mechanic, or warranty technician. Operation and maintenance positions generally remain with a given wind farm location; other technicians travel extensively with the construction of new wind farms and repair/retrofitting of wind turbines around the world. This diploma gives you the skills you need to be successful as a Wind Turbine Technician.

PROGRAM OUTCOMES

- Install, inspect, test, service, and repair wind turbine components.
- Wear proper Personal Protection Equipment, identify hazards, mitigate said hazards, and safely climb towers.
- · Cognitively think and use deductive reasoning as well as manufacturer information while troubleshooting or maintaining a wind turbine.

CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES

LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/ future-students/transfer.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.
- *Submit transcripts and test scores (optional, highly recommended): College transcripts, along with high school transcripts and test scores from within the last five years, used for course registration. Official transcripts needed for transferring college credit(s) and for financial aid purposes.

FUTURE SEMESTER ENROLLMENT STEPS

- Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

FINANCIAL AID

This program may be eligible for financial aid pending federal approval. Visit gotoltc. edu/Financial-Aid or talk with your Admissions Advisor about how to apply for aid.

SPECIAL NOTE

Upon completion of this technical diploma, students are encouraged to continue their coursework (an additional 12 credits) to achieve an associate degree in Renewable Energy Technology.

CONTACT

LTC Admissions Advisor 920.693.1162 · Admissions@gotoltc.edu

| Catalog N | lo. Class Title | Credit(s) |
|-----------|----------------------------------|-----------|
| | Term 1 | |
| 10620105 | DC Fundamentals | 2 |
| 10482141 | Wind Technical Rescue | 1 |
| 10482142 | Wind Technician Safety | 1 |
| 10482143 | Wind Turbine Fundamentals | 1 |
| 10482144 | Wind Site Planning | 1 |
| 10482145 | Wind Site Operations | 1 |
| 10620122 | 2 Industrial Wiring | 2 |
| 10620155 | Hydraulics & Pneumatics | 3 |
| 10804113 | College Technical Mathematics 1A | 3 |

Term 2

| 10482146 | Wind Technician Tools | 1 |
|----------|---------------------------------------|-----|
| 10482147 | Wind Turbine Preventative Maintenance | 1 |
| 10482148 | Wind Turbine Schematics | 1 |
| 10482149 | Wind Turbine Mechanical Systems | 1 |
| 10482150 | Wind Turbine Electrical Systems | 1 |
| 10482151 | Wind Turbine Drivetrain | 1 |
| 10482152 | Wind Energy Electrical Distribution | 1 |
| 10482153 | Wind Turbine Generator and Convertor | 1 |
| 10620141 | Industrial Controls and Motors | 3 |
| 10620110 | AC Fundamentals | 2 |
| | | 4.0 |

13

15

TOTAL 28

Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your program counselor for details. The tuition and fees are approximate based on 2023-2024 rates and are subject to change prior to the start of the academic year.

AC FUNDAMENTALS...prepares the student to analyze electrical circuits using AC math, analyze AC waveforms, measure and analyze AC power, analyze capacitors and inductors in DC and AC circuits, analyze AC circuits containing reactance and calculate resonance, applythe elements and properties of basic measuring circuits, and describe transformer characteristics. PREREQUISITE: 10620105 DC Fundamentals or 10660105 DC Fundamentals

COLLEGE TECHNICAL MATHEMATICS 1A...prepares the student to solve linear, quadratic, and relational equations; graph; formula rearrangement; solve systems of equations; percent; proportions; and operations on polynomials. Emphasis will be on the application of skills to technical problems. COREQUISITE: Math placement assessment or equivalent

DC FUNDAMENTALS...prepares the student to convert values to scientific and engineering notations; calculate math quantities; describe basic atomic theory; identify basic electrical terms; use established symbols standards; describe DC voltage characteristics and current sources and electrical resistance; measure and analyze electrical quantities in series and parallel circuits; and desolder/solder single lead components. COREQUISITE: 10804113 College Tech Math 1A or 10804115 College Tech Math 1 or 10804198 Calculus 1 or 10804118 Intern Algebra with Apps

HYDRAULICS AND PNEUMATICS...prepares the learner to identify hydraulic and pneumatic component symbols and terms, adjust a pressure relief valve, analyze the operation of a pilot operated relief valve; analyze Pascal's law; evaluate flow, velocity, work and power in industrial hydraulic and pneumatic circuits,; analyze meter-in, meter-out, and bypass flow control circuits; identify basic hydraulic and pneumatic control valves; and assemble hydraulic circuits. COREQUISITES: 10804113 College Tech Math 1A

INDUSTRIAL CONTROLS AND MOTORS...prepares the learner to select control devices by function and operation; illustrate electrical circuits using symbols, diagrams, and abbreviations; explain the operation of magnetic solenoids and apply motor control techniques and introduces thestudent to three-phase power motor circuits for industrial applications. PREREQUISITE: 10620122 Industrial Wiring and COREQUISITE: 10620110 AC Fundamentals or PREREQUISITE: 10660110 AC Fundamentals

INDUSTRIAL WIRING...prepares the learner to follow safety procedures; maintain a safe and healthy work environment; construct electrical circuits; measure electrical quantities using a VOM and/or DVM; analyze measured values using electrical circuit laws; construct typical industrial control circuits; and analyze typical industrial control circuits.

WIND ENERGY ELECTRICAL DISTRIBUTION...prepares the student to calculate power factor correction, electrical transformer basics, and how to determine electrical values given various transformer configurations.

WIND SITE OPERATIONS...evaluates the operation and maintenance requirements of wind turbines and their components. The environmental impacts of a commercial wind farm will be researched. COREQUISITE: 10482143 Wind Turbine Fundamentals

WIND SITE PLANNING...prepares the student to analyze causes of wind flow and wind flow properties. Students will draft a site assessment and perform a business assessment based upon researched data.

WIND TECHNICAL RESCUE...provides training in First Aid, Manual Handling, Fire Awareness, and Working at Heights. Learning activities will include scenario on LTC's wind turbines and rescue towers to include emergency evacuation procedures and technical rescue. CONDITION: Program requirements met for 104821 Renewable Energy Technology or 314821 Wind Technician or 614821 Wind Tower Climber

WIND TECHNICIAN HEALTH AND SAFETY...provides the learner with Occupational Safety and Health Administration Regulations and proper methods to reduce and control risk in the Wind Industry. This class embeds the OSHA 10 hour for General Industry training. CONDITION: Program requirements met for 104821 Renewable Energy Technology or 314821 Wind Technician or 614821 Wind Tower Climber

WIND TECHNICIAN TOOLS...introduces students to basic hand tool terminology and function including the use of torque wrenches, hydraulic torquing equipment, and precision measuring tools. Lab activities will also include proper fastener insertion, removal, and repair.

WIND TURBINE DRIVETRAIN...provides the student with an overview of how the components of the drivetrain are connected and learn the components of a 3 stage planetary gearbox. Students will perform a gearbox inspection using a borescope and create an inspection report utilizing images captured with the borescope. PREREQUISITE: 10482143 Wind Turbine Fundamentals

WIND TURBINE ELECTRICAL SYSTEMS...provides the student an overview of the various electrical systems that exist within a wind turbine including the generator, the control box and various control, relay and sensor feedback systems. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and 10482142 Wind Technical Safety and COREQUISITE: 10620110 AC Fundamentals

WIND TURBINE FUNDAMENTALS ... explores wind turbine history of small, medium, and commercial grade wind turbines in an on-shore and off-shore environment. Various models and designs of wind turbine construction will be examined to differentiate function, operation, and effectiveness. CONDITION: Program requirements met for 104821 Renewable Energy Technology or 314821 Wind Technician or 614821 Wind Tower Climber

WIND TURBINE GENERATOR AND CONVERTOR ... introduces students to Doubly Fed Induction Generator functions as well as how the convertor is used to ensure a wind turbine can connect to the electric grid reliably. The study of convertor schematics will also be incorporated in this course. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482152 Wind Energy Electrical Distribution and 10482150 Wind Turbine Electrical Systems and COREQUISITE: 10620110 AC Fundamentals

WIND TURBINE MECHANICAL SYSTEMS...introduces the student to various mechanical systems in a wind turbine including, brake systems, yaw systems, drivetrains and more. Students will gain experience by disassembling and reassembling various systems. The process of aligning a generator will also be covered. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and 10482142 Wind Technician Safety

WIND TURBINE PREVENTATIVE MAINTENANCE...prepares learners to climb, inspect and service wind turbines. Students will perform routine maintenance including greasing, torquing, testing and inspecting of the campus wind turbines. Students will utilize manufacturer information and checklistswhile completing preventative maintenance. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and 10482142 Wind Technician Safety

WIND TURBINE SCHEMATICS...familiarizes the student with schematic reading and prepares the students to use schematics for troubleshooting and Lock Out Tag Out. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and COREQUISITE: 10620110 AC Fundamentals



WIND TOWER CLIMBER

Program Number 61-482-1 Certificate • 13 credits

ABOUT THE PROGRAM

The Bureau of Labor Statistics predicts a 96 percent increase in wind energy careers through 2026. The Wind Tower Climber certificate is an entry-level credential for work at height professionals. Employers seek employees skilled at climbing and working at heights safely for the operation and maintenance activities. This includes the demand for installation technicians, torque mechanics, and repair technicians. Tower climbers travel extensively around the world with wind farm and telecommunications construction, maintenance, and decommissioning.

PROGRAM OUTCOMES

- · Install and inspect wind turbine components.
- · Wear Proper Personal Protection Equipment, identify hazards, mitigate said hazards and safely climb towers.
- Practice the basics of self-evacuation and rescue.

ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS

- Submit online application.
- · Complete the online Student Success Questionnaire.
- · Complete Technical Standards form.
- Schedule your 1st Time Program Counseling/Registration Session with your assigned program counselor to plan your first semester schedule, review your entire plan of study and discuss the results of the Student Success Questionnaire.

FUTURE SEMESTER ENROLLMENT STEPS

· Complete online Student Success Tutorial prior to registering for second semester.

APPROXIMATE COSTS

• \$146.20 per credit tuition (WI resident) plus \$8.77 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit gotoltc. edu/financial-aid/tuition-and-fees for details.

SPECIAL NOTE

Tower Climber certificate students may choose to continue their education by completing 36 additional credits for the Wind Technician technical diploma.

CONTACT

LTC Admissions Advisor 920.693.1162 • Admissions@gotoltc.edu

Term 1 10482141 Wind Technical Rescue 1 10482142 Wind Technician Safety 1 10482143 Wind Turbine Fundamentals 10482144 Wind Site Planning 10482145 Wind Site Operations 1 5

Term 2

Catalog No. Class Title

| 1 | 0482146 | Wind Technician Tools | 1 |
|---|---------|---------------------------------------|---|
| 1 | 0482147 | Wind Turbine Preventative Maintenance | 1 |
| 1 | 0482148 | Wind Turbine Schematics | 1 |
| 1 | 0482149 | Wind Turbine Mechanical Systems | 1 |
| 1 | 0482150 | Wind Turbine Electrical Systems | 1 |
| 1 | 0482151 | Wind Turbine Drivetrain | 1 |
| 1 | 0482152 | Wind Energy Electrical Distribution | 1 |
| 1 | 0482153 | Wind Turbine Generator and Converter | 1 |
| | | | 8 |

TOTAL 13

Credit(s)

WIND TECHNICAL RESCUE...provides training in First Aid, Manual Handling, Fire Awareness, and Working at Heights. Learning activities will include scenario on LTC's wind turbines and rescue towers to include emergency evacuation procedures and technical rescue. CONDITION: Program requirements met for 104821 Renewable Energy Technology or 314821 Wind Technician or 614821 Wind Tower Climber

WIND TECHNICIAN HEALTH AND SAFETY...provides the learner with Occupational Safety and Health Administration Regulations and proper methods to reduce and control risk in the Wind Industry. This class embeds the OSHA 10 hour for General Industry training. CONDITION: Program requirements met for 104821 Renewable Energy Technology or 314821 Wind Technician or 614821 Wind Tower Climber

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WIND SITE PLANNING...prepares the student to analyze causes of wind flow and wind flow properties. Students will draft a site assessment and perform a business assessment based upon researched data.

WIND SITE OPERATIONS...evaluates the operation and maintenance requirements of wind turbines and their components. The environmental impacts of a commercial wind farm will be researched. COREQUISITE: 10482143 Wind Turbine Fundamentals

WIND TECHNICIAN TOOLS...introduces students to basic hand tool terminology and function including the use of torque wrenches, hydraulic torquing equipment, and precision measuring tools. Lab activities will also include proper fastener insertion, removal, and repair.

WIND TURBINE PREVENTATIVE MAINTENANCE...prepares learners to climb, inspect and service wind turbines. Students will perform routine maintenance including greasing, torquing, testing and inspecting of the campus wind turbines. Students will utilize manufacturer information and checklistswhile completing preventative maintenance. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and 10482142 Wind Technician Safety

WIND TURBINE SCHEMATICS...familiarizes the student with schematic reading and prepares the students to use schematics for troubleshooting and Lock Out Tag Out. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and COREQUISITE: 10620110 AC Fundamentals

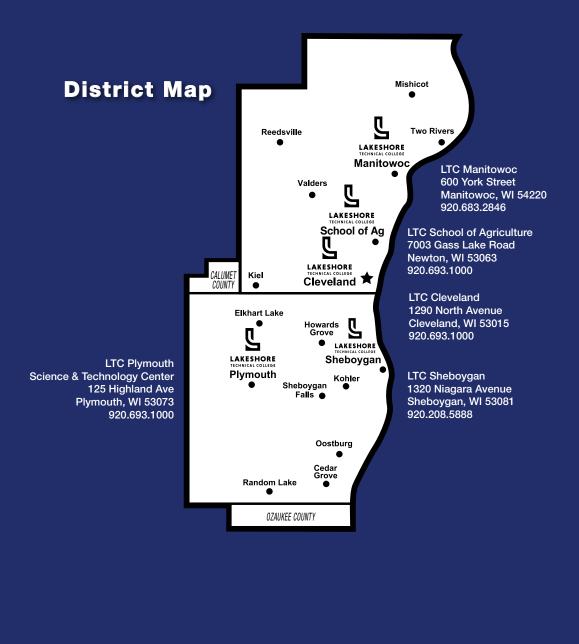
WIND TURBINE MECHANICAL SYSTEMS...introduces the student to various mechanical systems in a wind turbine including, brake systems, yaw systems, drivetrains and more. Students will gain experience by disassembling and reassembling various systems. The process of aligning a generator will also be covered. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and 10482142 Wind Technician Safety

WIND TURBINE ELECTRICAL SYSTEMS...provides the student an overview of the various electrical systems that exist within a wind turbine including the generator, the control box and various control, relay and sensor feedback systems. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482141 Wind Technical Rescue and 10482142 Wind Technician Safety and COREQUISITE: 10620110 AC Fundamentals

WIND TURBINE DRIVETRAIN...provides the student with an overview of how the components of the drivetrain are connected and learn the components of a 3 stage planetary gearbox. Students will perform a gearbox inspection using a borescope and create an inspection report utilizing images captured with the borescope. PREREQUISITE: 10482143 Wind Turbine Fundamentals

WIND ENERGY ELECTRICAL DISTRIBUTION...prepares the student to calculate power factor correction, electrical transformer basics, and how to determine electrical values given various transformer configurations.

WIND TURBINE GENERATOR AND CONVERTOR...introduces students to Doubly Fed Induction Generator functions as well as how the convertor is used to ensure a wind turbine can connect to the electric grid reliably. The study of convertor schematics will also be incorporated in this course. PREREQUISITES: 10482143 Wind Turbine Fundamentals and 10482152 Wind Energy Electrical Distribution and 10482150 Wind Turbine Electrical Systems and COREQUISITE: 10620110 AC Fundamentals





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