ABOUT THE PROGRAM
The Environmental Engineering—Waste & Water Technology program prepares learners to maintain the quality of water, air, waste, and other materials through testing, analysis, and monitoring to keep the environment and community healthy and safe. This program will meet a need for environmental engineering technicians in northeast Wisconsin.

PROGRAM OUTCOMES
• Identify, monitor, and evaluate environmental hazards.
• Examine the effects of pollution.
• Determine strategies to minimize or prevent waste in order to reduce impact on the environment.
• Create and maintain environmental reports in accordance with applicable standards.
• Utilize applied science and mathematical skills to modify, test, and operate equipment used in the prevention, control, and remediation of environmental issues, including waste and water treatment.
• Perform periodic inspections in compliance with applicable standards.
• Use effective oral and written communication skills.
• Utilize problem solving skills.
• Perform safe work practices.

ADMISSIONS STEPS
• Work with Admissions Specialist to:
  - Submit application and $30 fee to NWTC.
  - Complete an assessment for placement (Accuplacer or ACT).
• Meet with NWTC program advisor to discuss program details.
• Meet with LTC program advisor/counselor to discuss program details.

APPROXIMATE COSTS
• $132 per credit (resident)
• $198 per credit (out-of-state resident)
• Other fees vary by program (books, supplies, materials, tools, uniforms, health-related exams, etc.) Visit gotoltc.edu/financial-aid/tuition-and-fees for details.

PLACEMENT SCORES
Accuplacer/ACT scores will be used to develop your educational plan. Contact your program advisor/counselor for details.

SPECIAL NOTE
Northeast Wisconsin Technical College (NWTC) offers its Environmental Engineering—Waste & Water Technology program in cooperation with LTC.

CAREER & EDUCATION ADVANCEMENT OPPORTUNITIES
LTC credits transfer to over 30 universities. For more information visit gotoltc.edu/future-students/transfer.

CONTACT
NWTC:
Alana Eder, Academic Advisor
920.498.5616 • alana.eder@nwtc.edu
LTC:
Chou Yang, Admissions Specialist
920.693.1851 • chou.yang@gotoltc.edu
INTRODUCTION TO DIVERSITY STUDIES...is a course that draws from several disciplines to reaffirm the basic American values of justice and equality by teaching a basic vocabulary, a history of immigration and conquest, principles of transnational communication, legal liability and value of aesthetic production to increase the probability of respectful encounters among people. In addition to analysis of major/ minority relations in a multicultural context, the topics of ageism, sexism, gender differences, sexual orientation, the disabled and the American Disability Act (ADA) are explored. Ethnic relations are studied in global and comparative perspectives. COREQUISITE: 10838105 Intro Reading and Study Skills or Accuplacer Reading score of 74 or equivalent

MECHANISMS MECHANICS INTRODUCTION TO...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.

PNEUMATICS INDUSTRIAL...prepares the learner to identify pneumatic component symbols, examine the main parts of a pneumatic system; identify air conditioning and distributing equipment; evaluate the characteristics of physical laws that apply to pneumatics; identify the laws governing pneumatics; adjust pressure regulator to specified pressure; evaluate the general characteristics and terms of pressure drop versus flow relationship; evaluate the general characteristics and terms of vacuum generation. COREQUISITES: 10620157 Hydraulics-Industrial or 10620159 Hydraulics 1

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. RSLOGIX5000 software. PREREQUISITE: 10620138 Prog Ctrl/Cs/Int or 10620138C1 Prog Ctrl/Cs/Int (3 cr)

SOLID & HAZARDOUS WASTE...identify the hierarchy of and regulations related to hazardous waste, petrochemicals, prevention and disposal strategies. Learn detection techniques and proper transporting and handling methods.

TECHNICAL REPORTING...provides the learner with the skills to prepare and present oral and written technical reports. Types of reports may include lab and field reports, proposals, technical letters and memos, technical research reports, and case studies. Designed as an advanced communication course for students who have completed at least the prerequisite introductory writing course. PREREQUISITE: 10831103 Intro to College Wrtg or CONDITION: Written Comm Prepared Learner (Accuplacer Wrtg min score of 86 or Equivalent) and 10838105 Intro Rdg & Study Skills or CONDITION: Reading Accuplacer min score of 74 or equivalent

TRIGONOMETRY WITH APPLICATIONS...topics include circular functions, graphing of trigonometry functions, identities, trigonometric functions of angles, inverse functions, solutions of triangles complex numbers, DeMoivre's Theorem, polar coordinates, and vectors. PREREQUISITE: Accuplacer-Cm=63 or ACT-Math 24 or 10-804-116, Intermediate Alg w/Apps with "C" or better AND Accuplacer Reading=55 or ACT Reading=15 or 10-838-105, Introduction to Reading & Study Skills with "C" or better OR equivalent 3 cr.

WATER TREATMENT & ANALYSIS...physical, chemical, and biological principles of operation of wastewater treatment systems. The basic unit processes, control parameters, and mathematical problem-solving related to collection systems and treatment facilities are introduced. Laboratory procedures and practices involved with operation of wastewater analysis and treatment including industrial waste treatment technologies. PREREQUISITE: 10-506-148, Environmental Chem Analysis

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 Wrtg or CONDITION: Written Comm Prepared Learner (Accuplacer Wrtg min score of 86 or Equivalent) and 10838105 Intro Rdg & Study Skills or CONDITION: Reading Accuplacer min score of 74 or equivalent