

**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. This program is offered in a partial Competency-Based Education (CBE) format, which allows students to work at their own pace.

**PROGRAM OUTCOMES**

- Design web sites or applications.
- Utilize essential data technologies.
- Develop basic applications.

**CAREER AND EDUCATION ADVANCEMENT OPPORTUNITIES**

Lakeshore credits transfer to over 30 universities. For more information visit [lakeshore.edu/future-students/transfer](https://lakeshore.edu/future-students/transfer).

**ADMISSIONS AND FIRST SEMESTER ENROLLMENT STEPS**

- Submit online application.
- Complete the online Student Success Questionnaire.
- Complete Get Started at Lakeshore appointment:
  - Application Check-in
  - College Orientation Overview
  - 1st Time Program Registration

*\*Submit high school transcripts, college transcripts, and test scores (optional, highly recommended). Official transcripts will be needed for transferring college credit(s) and for financial aid purposes.*

**ACADEMIC PREPAREDNESS/FUTURE SEMESTER ENROLLMENT STEPS**

If applicable, complete program-specific academic preparedness requirements and enrollment steps prior to enrolling in occupational or core courses. Students will be notified if there is a program waitlist. View the college's program webpage for details: <https://lakeshore.edu/programs-and-courses/career-areas/information-technology-it/it-web-development-specialist>.

**APPROXIMATE COSTS**

\$152.85 per credit tuition (WI resident) plus \$9.17 per credit student activity fee. Material fee varies depending on course. Other fees vary by program. Visit [lakeshore.edu/Financial-Aid/tuition-and-fees](https://lakeshore.edu/Financial-Aid/tuition-and-fees) for details.

**FINANCIAL AID**

This program is eligible for financial aid. Visit [lakeshore.edu/Financial-Aid](https://lakeshore.edu/Financial-Aid) for more information.

**SPECIAL NOTE**

- Students are required to have access to a computer with internet connectivity. Computers are available at Lakeshore'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.
- Learn when you want. Progress at your own pace. Receive personalized coaching and support. The full CBE definition may be found at [lakeshore.edu/cbe](https://lakeshore.edu/cbe).

**CONTACT**

Lakeshore College Recruiter  
920.693.1366 • [Recruitment@lakeshore.edu](mailto:Recruitment@lakeshore.edu)

Catalog No.	Class Title	Credit(s)
<b>Term 1</b>		
10152196	Web Development 1*	3
10152100	Programming Introduction*	4
10152124	Intro to Database Design & Development*	3
10804133	Math & Logic	3
		<b>13</b>
<b>Term 2</b>		
10201118	Advancements in Web & Development*	2
10152199	Web Development 2*	4
10152187	Web Development 3*	4
		<b>10</b>
		<b>TOTAL 23</b>

\*CBE delivery only

*Curriculum and program acceptance requirements are subject to change. Program start dates vary; check with your academic counselor for details. The tuition and fees are approximate based on 2025-2026 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 Development 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. Discuss math and reading academic course support with your Counselor.

**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. **PREREQUISITE:** 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. **PREREQUISITE:** 10152124 Intro to Database Design and Development