

# WEB PAGE DEVELOPMENT AND DESIGN

New enrollments into this program are restricted as of Fall 2023. Please contact an academic advisor about alternative options.

## Overview

**Degrees Offered:** AAS, Program Certificate

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## Description

This curriculum is designed for students who want to specialize in Web Page Development. Web languages covered in the Web Page Development and Design curriculum are HTML 5, CSS3, web frameworks, XML, JavaScript, JavaScript libraries, PHP, and Python.

## Preparation

Students interested in Web Page Development and Design should enjoy problem solving, researching online, be detailed-oriented and able to work independently. High school students should have successfully completed English, math, and computer classes. Early entry course options between Bismarck State College and the high school may be available.

### Minimum computer skills requirement:

- Keying accurately at 20-30 wpm
- File management skills including folder creation, copying and pasting, renaming files, and file location

### Minimum English skills requirement:

- Student should have completed or be currently enrolled in ENG 110 English Composition I

Students must be able to work independently and in teams.

*If a student does not meet the minimum computer and/or English requirements, an example first semester:*

ASC English to enter English 110 or ENGL 110	3
CSCI 101 Introduction to Computers	3
BOTE 152 Keyboarding II	3
Arts & Humanities	3

## Requirements

Students completing the two-year curriculum receive an Associate in Applied Science (AAS) degree in Web Page Development and Design.

Students completing the one-year curriculum receive a Program Certificate in Web Page Development and Design.

## Career Opportunities

Employment opportunities are expected to grow, as research shows computer-oriented careers are among the fastest growing in the country. Employment of Web developers is projected to grow 23 percent from 2021-2031, faster than the average for all occupations. Source: U.S. Bureau of Labor Statistics.

Career opportunities: Web designer, web developer, web programmer, webmaster.

If you have taken past IT courses, please contact your advisor.

## Degree Plans

- Web Page Development and Design Associate in Applied Science
- Web Page Development and Design Program Certificate

## Program Learning Outcomes

Upon graduation, Web Page Development and Design students will be able to:

- Plan, design, and implement effective webpages using a variety of media and following ethical principles.
- Plan and design responsive, standards-compliant web sites using appropriate organizational structure.

- Communicate effectively both orally and in writing to support development of effective partnerships with colleagues and clients.
- Develop problem solving strategies and decision making skills to meet requirements and accommodate given constraints for projects.
- Participate effectively in collaborative environments.
- Develop a career portfolio emphasizing past accomplishments while focusing on lifelong learning.