

DIGITAL MEDIA AND WEB TECHNOLOGY AA

Total Credits: 60

Catalog Edition: 2025-2026

Program Description

From front-end development to server-side programming and databases, this program provides students with the skills and knowledge needed to excel in the rapidly growing field of website and web application development. Students in this program will gain hands-on experience in HTML, CSS, and JavaScript, as well as database and web application development using industry standard equipment and software. This degree prepares students for transfer to a four-year institution as well as a variety of entry and mid-level positions such as user-interface developers, web developers, digital media specialists, web designers, and multimedia specialists. **This program can be completed either on campus or online.**

Program Outcomes

Upon completion of this program, a student will be able to:

- Demonstrate currency and proficiency in the digital tools employed in website and web application development.
- Apply the techniques and knowledge of foundational skills in a range of media to create professional quality websites and web applications that comply with current web standards and are representative of the material and techniques studied.

Program Advisors

Rockville

- Prof. John "Erik" Swanson,
240-567-7529, John.Swanson@montgomerycollege.edu

For more information, please visit <https://www.montgomerycollege.edu/academics/programs/digital-media-and-web-technologies/digital-media-and-web-technology-aa.html>

2025-2026

Program Advising Guide

An Academic Reference Tool for Students

DIGITAL MEDIA AND WEB TECHNOLOGY AA

Suggested Course Sequence

A suggested course sequence for full-time students follows. All students should review this advising guide and consult an advisor.

First Semester

ENGL 101 - Introduction to College Writing *3 semester hours* *

Mathematics Foundation *3 semester hours (MATF)* †

GDES 116 - Digital Tools for the Visual Arts *4 semester hours (ARTD)*

TECH 272 - Website Development *4 semester hours*

Third Semester

Humanities Distribution *3 semester hours (HUMD)* †

Behavioral and Social Sciences Distribution *3 semester hours (BSSD)* ** †

TECH 274 - Web Content Management Systems and Strategy *3 semester hours*

TECH 282 - Web Application Development Using PHP and MySQL *3 semester hours*

Elective *3 semester hours* ††

Second Semester

English Foundation *3 semester hours (ENGF)* †

Natural Science Distribution with Lab *4 semester hours (NSLD)* †

Arts Distribution (*ARTD*) or Humanities Distribution (*HUMD*) or Health General Education Course (*HLTH*) *3 semester hours (GEIR)*

TECH 276 - JavaScript Fundamentals *3 semester hours*

TECH 273 - Advanced Website Development *3 semester hours*

Fourth Semester

Behavioral and Social Sciences Distribution *3 semester hours (BSSD)* ** †

Natural Science Distribution without Lab *3 semester hours (NSND)* †

OR

Natural Science Distribution with Lab *4 semester hours (NSLD)* †

COMM 108 - Foundations of Human Communication *3 semester hours (GEIR)*

OR

COMM 112 - Business and Professional Speech Communication *3 semester hours (GEIR)*

Elective *3 semester hours* ††

Elective *3 semester hours* ††

Total Credit Hours: 60

* ENGL 101/ENGL 011, if needed for ENGL 102/ENGL 103, or elective.

** Behavioral and social sciences distribution (BSSD) courses must come from different disciplines.

† Recommended General Education courses for transfer include: ENGL 102 (ENGF), ENGL 103 (ENGF), MATH 117 (MATF), HIST 205 (HUMD), SOCY 100 (BSSD), PSYC 100 (BSSD), ASTR 101 (NSLD), BIOL 105 (NSND).

†† Students may select 3-credit or 4-credit electives. Students should consult a program advisor and check transferability to four-year institutions.

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AA and AS programs require one global and cultural perspectives (GCP) General Education course.

This program can be completed either on campus or online.

Transfer Opportunities

Montgomery College has partnerships with multiple four-year institutions and the tools to help you transfer. To learn more, please visit <https://www.montgomerycollege.edu/transfer> or <http://artsys.usmd.edu>.

Get Involved at MC!

Employers and Transfer Institutions are looking for experience outside the classroom.

MC Student Clubs and Organizations: <https://www.montgomerycollege.edu/life-at-mc/student-life/>

Related Careers

Some require a Bachelor's degree.
Information Security Analyst, Computer Programmer, Web Developer, Web Administrator, Video Game Designer, Multimedia Artist and Animator.

Career Services

Montgomery College offers a range of services to students and alumni to support the career planning process. To learn more, please visit <https://www.montgomerycollege.edu/career>

Career Coach

A valuable online search tool that will give you the opportunity to explore hundreds of potential careers or job possibilities in Maryland and the Washington D.C. metropolitan area. Get started today on your road to a new future and give it a try. For more information, please visit <https://montgomerycollege.emsicc.com>

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