

WEB DESIGN AND DEVELOPMENT - WEB DEVELOPMENT (AAS)

Art, Design and Performing Arts

Program website (<https://www.harpercollege.edu/academics/arts/web-development/web-development-degree.php>)

Option 2: Web Design and Development Degree – Web Development

Program Overview

This 61 credit-hour technical curriculum prepares students for various positions in the field of web development. Students will learn the technology behind today's Internet and website development protocols by producing professional web solutions and understanding the technical aspect of website development. Utilizing front-end design and back-end practices and programming, this degree path provides solid technology skills for an industry relevant experience.

This sequenced degree plan is one of two options that students may pursue to earn the Web Design and Development Associate in Applied Science (AAS) degree. While there are multiple specializations, this particular degree can be awarded only once.

Program Requirements

First Semester		Hours
CIS 106	Computer Logic and Programming Technology	3
ENG 101	Composition I	3
GRA 101	Introduction to Graphic Arts Technology	3
MTH 103	College Algebra ¹	3
WEB 110	Internet Fundamentals	3
Hours		15

Second Semester		Hours
AAS General Education elective(s) (https://catalog.harpercollege.edu/catalog/programs/aas-general-education-electives/) ⁺		3
CIS 143	Introduction to Database Systems	3
ENG 102 or SPE 101	Composition II or Fundamentals of Speech Communication	3
GRA 145	Wordpress and Mobile Technologies	3
WEB 150	Web Foundations	3
Hours		15

Third Semester		Hours
AAS General Education elective(s) (https://catalog.harpercollege.edu/catalog/programs/aas-general-education-electives/) ⁺		3
WEB 170	Web UX Fundamentals and Prototyping	3
WEB 190	Web Authoring Tools	3
WEB 200	Web Scripting Foundations	3

WEB 240	E-Commerce Strategies and Technologies	3
Hours		15
Fourth Semester		
CSC 121	Computer Science I	4
Elective(s) (p. 1)		3
WEB 210	Web Accessibility	3
WEB 235	Interactive Scripting	3
WEB 250	Server-Side Scripting	3
Hours		16
Total Hours		61

¹ If a student places higher than MTH 103, they need to take a 3 credit-hour AAS General Education elective. MTH 103 is required for CSC 121. See full list of AAS General Education Electives (<https://catalog.harpercollege.edu/catalog/programs/aas-general-education-electives/>).

+ At least one of the AAS General Education electives must meet the World Cultures and Diversity graduation requirement. See full list of AAS General Education Electives (<https://catalog.harpercollege.edu/catalog/programs/aas-general-education-electives/>).

Electives

Code	Title	Hours
CIS 106	Computer Logic and Programming Technology	3
CIS 206	Applied Programming	4
CIS 216	Applied Object-Oriented Programming	4
CSC 214	Java Programming	4
GRA 102	Graphic Arts Desktop Publishing	3
GRA 112	Digital Illustration I	3
MKT 180	Strategic Communication for a Digital World	3
WEB 140	Mobile Apps	3
WEB 180	Web Multimedia	3
WEB 250	Server-Side Scripting	3
WEB 285	Topics in Web Development	1-6
WEB 299	Web Design Capstone	3

Program Learning Outcomes

- Demonstrate professional and effective communication and presentation skills in a visual communication industry.
- Apply best practices of Web development.
- Produce professional quality web solutions utilizing current web development techniques.
- Code and publish standards-compliant, accessible Web documents using HTML, CSS, and JavaScript.
- Utilize a server-side scripting language and a database to create a dynamic Web site.
- Evaluate Web sites for accessibility compliance and usability.
- Describe e-commerce business concepts related to information technology, promotion and marketing, international issues, legal implications and ethical issues.
- Implement appropriate program design, testing, and documentation methodology using current programming best practices.