



**Web Development and Design**  
**Concentration: Web Application Development (APP)**  
**AAS #1816 (60 credits)**  
**Effective Fall 2020**

\*Students should see their assigned advisor to develop an individual educational plan. The course schedule, program sequencing, and curriculum are subject to change.

**Developmental Courses (as determined through College Placement Testing)\* and Prerequisites:**

\* *Zero level courses must be completed with a C grade or higher.*

<input type="checkbox"/>	ESL classes	<input type="checkbox"/>	ENGL 050
<input type="checkbox"/>	ENGL 002	<input type="checkbox"/>	ENGL 051
<input type="checkbox"/>	ENGL 003	<input type="checkbox"/>	ENGL 057

**General Education Courses**

<b>ENGL 101 or ENGL 110</b>	<b>3</b>	Pre: ENGL 003 and ENGL 051 or ENGL 057 with C or higher; Co: ENGL 003 Pre: Eligibility for ENGL 101 and completion of any reading course
<b>Comm 101 or Comm 203</b>	<b>3</b>	Eligibility for ENGL 101 and completion of any reading course ENGL 101 with a grade of C or higher
<b>Any Core A</b>	<b>3</b>	Humanities and Arts Elective
<b>Any Core B</b>	<b>3</b>	Social and Behavioral Sciences Elective
<b>Any Core C</b>	<b>3</b>	Math or Natural Science Elective
<b>Free Elective</b>	<b>1</b>	Any 100 – 200 level course
<b>PE/Wellness</b>	<b>1</b>	See HACC catalog for a list of Wellness courses
<b>FYS Seminar</b>	<b>1</b>	Unless exempted by examination. See HACC catalog for a list of approved courses.

**Required Program Courses**

		<b>Course Title</b>	<b>Pre/Co-Req/Notes</b>
<b>WEB 101</b>	<b>3</b>	Web Program Introduction	Pre: ENGL 051 and ENGL 003 with C or higher
<b>WEB 110</b>	<b>3</b>	Web Site Publishing	
<b>WEB 125</b>	<b>3</b>	HTML and CSS	
<b>WEB 130</b>	<b>3</b>	Multimedia Fundamentals	
<b>WEB 133</b>	<b>3</b>	Design Fundamentals	
<b>WEB 143</b>	<b>3</b>	Development Fundamentals	Pre: CIS 110; or WEB 101 or WEB 102; Co-Req: WEB 125
<b>WEB 240</b>	<b>3</b>	JavaScript Programming	Pre: WEB 125 with C or higher; Co-Req: WEB 143 with a C or higher
<b>WEB 268 or WEB 270</b>	<b>3</b>	WEB Program Capstone <b>OR</b> Cooperative Work Exp. In WEB	WEB 133 & 143 with a C or higher; plus instructor's signature. Completion of at least 30 credits in WEB-discipline courses with a GPA of 3.0 or higher. An Instructor's signature is required for registration
<b>Program Major Elective</b>	<b>3</b>	Select ONE course from any of these subject areas: WEB, AOS, ART, CIS, CISE, CNT, CPS, and ELEC. Excluding AOS 100, 101; CIS 100	Prerequisites may vary depending on course selection.

	<b>15</b>	<b>Web Application Development Concentration</b>	
<b>CIS 245</b>	<b>3</b>	Database Programming	Pre: CIS 140 or WEB 143 with C or higher
<b>WEB 245</b>	<b>3</b>	Advanced Development	Pre: WEB 143 with C or higher
<b>WEB 253</b>	<b>3</b>	Introduction to Window Development	Pre: WEB 143 with C or higher
<b>Web Application Development Electives</b>	<b>6</b>	CIS 140: Intermediate Database Mgmt. WEB 144: Intro to JAVA Development WEB 255: Intro to PHP Development WEB 257: Advanced ASP.NET Active Server Pages	Pre: CIS 105 with C or higher Pre: WEB 143 with C or higher Pre: WEB 143 with C or higher Pre: WEB 253 with C or higher or application development experience (instructor approval)

### Advising Notes

Students must achieve a collective average GPA of 2.00 or higher in all required WEB/CIS courses in order to graduate.

### RECOMMENDED SEQUENCE FOR FULL-TIME STUDENTS

Part time students can complete this program by taking one or more courses each semester.

#### Web Application Developer Concentration

Fall Semester I		Spring Semester I		Fall Semester II		Spring Semester II	
FYS Elective	1	Humanities/Arts Elective	3	CIS 245	3	COMM 101 or 203	3
ENGL 110 or 101	3	Math/Science Elective	3	Web Application Developer Elective	3	Web Application Developer Elective	3
WEB 101	3	WEB 133	3	Social/Behavioral Science Elective	3	Open Elective	1
WEB 110	3	WEB 143	3	WEB 245	3	Program Major Elective	3
WEB 125	3	WEB 240	3	WEB 253	3	WEB 268 or 270	3
WEB 130	3					PE/Wellness	1

*This is an overview of the program. Any suggested course sequencing is meant to serve as a guideline for your semester planning. Students are expected to see your assigned advisor to develop and review their individual educational plans. Program specific questions can be directed to the faculty contacts. The scheduling of courses, program sequencing and curriculum are subject to change.*

### Counselor/Advisor Contact Information by Campus:

<u>Gettysburg</u>	<u>Harrisburg</u>	<u>Lancaster</u>	<u>Lebanon</u>	<u>York</u>
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Student Services	Counseling and Advising	Counseling and Advising	Receptionist Desk	Welcome Center
Lobby	Cooper	221 Main	Lobby	Leader 102
717-337-3855	717-780-2498	(717) 358-2988	717-270-4222	717-801-3213, ext. 3513