

# WEB DESIGN/DEVELOPMENT, ASSOCIATE IN APPLIED SCIENCE



**COMPUTER AND  
INFORMATION  
TECHNOLOGY**

## Program Requirements

Program Prerequisites: None

Code	Title	Credits	Semester
<b>Required Courses</b>			
In addition to the required course work students must consult with a program advisor to select one of the specializations within the Restricted Electives area.			
CIS105	Survey of Computer Information Systems	3	
CIS120DF	Introduction to Adobe Photoshop	3	
CIS133DA	Internet/Web Development Level I	3	
CIS136	Content Management Systems: WordPress	3	
CIS166AA	Introduction to Javascript	3	
CIS233DA	Internet/Web Development Level II	3	
CIS235	E-Commerce	3	
FYE101	Introduction to College, Career and Personal Success	1-3	
or FYE103	Exploration of College, Career and Personal Success		
<b>Restricted Electives</b>			
Complete all courses in the specialization below that best aligns with your academic and professional goals. Consult with an academic, faculty, or program advisor.		17-22	
Specialization I: Web Design (17-22 Credits) (p. 2)			

Specialization II: Web Development (18 Credits) (p. 2)			
<b>General Education</b>			
<b>Core</b>			
<i>First-Year Composition</i>			
ENG101	First-Year Composition	3	
or ENG107	First-Year Composition for ESL		
ENG102	First-Year Composition	3	
or ENG108	First-Year Composition for ESL		
<i>Oral Communication</i>			
Any approved General Education course from the Oral Communication area		3	
<i>Critical Reading</i>			
Select one of the following:		0-3	
CRE101	College Critical Reading and Critical Thinking		
Or equivalent as indicated by assessment			
<i>Mathematics</i>			
Any approved general education course(s) in the Mathematics area <sup>1</sup>		3-6	
College Mathematics:			
MAT140	College Mathematics		
MAT141	College Mathematics		
MAT142	College Mathematics		
MAT145	College Mathematics with Review		
MAT146	College Mathematics with Review		
College Algebra/Functions:			
MAT150	College Algebra/Functions		
MAT151	College Algebra/Functions		
MAT152	College Algebra/Functions		
MAT155	College Algebra/Functions with Review		
MAT156	College Algebra/Functions with Review		
Higher Math Course:			

Higher math course with the Mathematical Applications (MA) general education designation recommended for students intending to transfer to a four-year institution.

<b>Distribution</b>	
<i>Humanities, Arts and Design</i>	
Any approved general education course(s) from the Humanities, Arts and Design area	3
<i>Social and Behavioral Sciences</i>	
Any approved general education course(s) in the Social and Behavioral Sciences area <sup>2</sup>	3
<i>Natural Sciences</i>	
Any approved general education course(s) in the Natural Sciences area	4
<b>Total Credits</b>	<b>61-74</b>

<sup>1</sup> MAT187 Precalculus is recommended for students intending to transfer to ASU (Tempe campus) to earn a BS in Graphic Information Technology.

<sup>2</sup> PSY101 Introduction to Psychology is recommended for students intending to transfer to ASU (Polytechnic campus) to earn a BS in Technical Communication (User Experience) or to ASU (Tempe campus) to earn a BS in Graphic Information Technology

## Specializations

### Specialization I: Web Design

Code	Title	Credits	Semester
ADA/ART183 or ART100 & ART181 or ART112	and Two-Dimensional Design	3-4	
CIS120DA or CIS120DK	Introduction to Adobe Premiere Introduction to Digital Video Editing	3	
CIS120DB	Introduction to Adobe Illustrator	3	
CIS120DC or CIS220DF	Introduction to Adobe Animate Adobe Photoshop Level II: Advanced Digital Imaging	3	
CIS138DA	Desktop Design and Publishing Using Adobe InDesign	3	

Students must select 2 to 6 credits in consultation with your program advisor to further develop skills in the areas of Adobe, Art, Social Media, Marketing, Business and/or Multimedia.

**Total Credits** 17-22

### Specialization II: Web Development

Code	Title	Credits	Semester
CIS119DO	Introduction to Oracle: SQL (or CIS276++ Any Database Management Systems course)	3	
CIS126DL or CIS126RH	Linux Operating System Red Hat System Administration I	3	
CIS166AE	Web Scripting with PHP. Hypertext Preprocessor (PHP)	3	
Programming Language: Select two of the following:		6	
CIS150AB	Object-Oriented Programming Fundamentals		
CIS156	Python Programming: Level I		
CIS159	Visual Basic Programming I		
CIS162++	Any C Programming course		
CIS163AA	Java Programming: Level I		
CIS165++	Any Mobile Application Development course		
CIS256	Python Programming Level II		
CIS262AD	C# Level II		
CIS263AA	Java Programming: Level II		
CIS265++	Advanced iOS Application Development		

Students must select 3 credits of any course with a CIS prefix in consultation with their program advisor to further develop skills in the areas of Databases, Information Systems, Programming, and/or Operating Systems.	3	_____
<b>Total Credits</b>	<b>18</b>	_____