WEB DEVELOPMENT - ASSOCIATE OF APPLIED SCIENCE OPTION (AASO)

Description

The Computer Information Systems program is designed around a core curriculum and three distinct options. The program's core provides an introduction to computer concepts, software applications, operating systems, networking, database, computer servicing, internet, math, human relations, and writing. Graduates work in information technology for a wide variety of commercial businesses, education, federal/state/local governments, e-commerce, publishing and real estate. Careers typically include positions such as personal computer technician, desktop support, network administrator, web developer, draftsperson, database administrator, system administrator, and related managerial and administrative roles.

The Web Development Associate of Applied Science Option prepares students for a career as a web developer or website administrator. These professionals are responsible for creating standards-based websites and web/database applications. In addition to programming skills in common markup, scripting, and SQL languages, these professions require project management and communication skills.

Program Learning Outcomes

Upon successful completion of the degree, students will be able to:

- Construct websites that demonstrate best practices for function, design, and usability.
- 2. Integrate functional client-side programs within a website.
- 3. Develop effective server-side programs.
- 4. Communicate effectively with clients, customers, and coworkers about web development topics.

Entrance Requirements

Academic Entrance Requirements

Recommended:

- · High school diploma or GED
- Completion of WR 065 Rhetoric and Critical Thinking II or higher or minimum placement Wr/Comm Level 7
- Completion of MTH 060 Beginning Algebra or higher or minimum placement Math Level 10
- Basic computer competency or CIS 010 Computer
 Keyboarding and CIS 070 Introduction to Computers: Windows

Additional Costs (Beyond Standard Tuition/Fees and Textbooks)

Material Costs

Recommended:

 A desktop or laptop computer capable of running the latest version of the Windows operating system and the latest version of Microsoft Office: approximately \$800

Course	Requirements

Course	Title	Credits
Core Courses	THE	Orcuito
CIS 101	Information Technology Orientation	3
CIS 122	Introduction to Programming	4
CIS 124	Tech+	4
CIS 131	Software Applications	4
CIS 135DB	Database Theory/SQL	4
CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
CIS 179	Networking Essentials	4
CIS 183C	Introduction to Cybersecurity	4
CIS 195	Web Development I	4
CIS 244	Information Systems Analysis	4
CIS 279WC	Windows Client	4
or CIS 179L	Linux Essentials	7
CIS 297	CIS Professional Capstone	4
Web Developmen	'	4
	m of 27 credits from the following:	27-28
CIS 125DV	Adobe Premiere	21 20
	/AWeb Animation	
CIS 125G	Photoshop	
	Adobe Illustrator	
CIS 133JS	Introduction to JavaScript	
CIS 133P	Introduction to PHP	
CIS 197	CMS Web Development: WordPress	
CIS 233P	Web Programming	
CIS 280	Co-op Work Experience CIS	
CIS 295	Web Development II	
Other Required Co		
BA 214	Business Communications	3-4
or WR 227Z	Technical Writing	
COMM 111Z	Public Speaking	4
	Interpersonal Communication	
or COMM 219		
Human Relations	'	3-5
MTH 102	<u>.</u> Applied Technical Mathematics (or one course	4
	from the foundational requirements math list)	7
WR 121Z	Composition I	4
Total Credits		96-100

Advising Notes

Planning is important. Most option courses are offered once per academic year and many need to be taken in sequence. Some core classes are offered once every two years. Students may take nonprogram support courses any term to build skills related to prerequisites. This program is designed for students planning to enter their chosen career upon graduation. Often only selected credits are considered transferable to public or private baccalaureate institutions.

Performance Standards

- · Academic Requirements:
 - Students must have a 2.0 cumulative GPA to earn a COCC certificate or degree.
 - All courses in the program must be completed with a grade of C or higher.
- · Additional Requirements:
 - All COCC students enrolled in the Computer Information Systems
 program (which includes requirements for Cooperative Work
 Experience) may have to pass Criminal History Checks (CHC) as
 a condition of their acceptance into a work site. Students who do
 not pass the CHC may not be eligible to complete requirements
 at affiliated practicum sites or be hired for some professional
 positions. Students who believe their history may interfere with
 their ability to complete the program of study should contact the
 program director.

Sample Plan

First Term		Credits	
CIS 101	Information Technology Orientation	3	
COMM 111Z or COMM 218Z or COMM 219	Public Speaking or Interpersonal Communication or Small Group Communication	4	
MTH 102	Applied Technical Mathematics (or one course from the foundational requirements math list)	4	
WR 121Z	Composition I	4	
	Credits	15	
Second Term			
BA 214 or WR 227Z	Business Communications or Technical Writing	3-4	
CIS 124	Tech+	4	
CIS 183C	Introduction to Cybersecurity	4	
Web Development Op	Web Development Option, choose from the following: 1 4		
CIS 125DV or CIS 125WA	Adobe Premiere or Web Animation		
CIS 125G or CIS 125I	Photoshop or Adobe Illustrator		
CIS 133JS	Introduction to JavaScript		
CIS 133P	Introduction to PHP		
CIS 197	CMS Web Development: WordPress		
CIS 233P	Web Programming		
CIS 280	Co-op Work Experience CIS		
CIS 295	Web Development II		
	Credits	15-16	
Third Term			
CIS 122	Introduction to Programming	4	
CIS 131	Software Applications	4	

CIS 140	A+ Essentials I	4
CIS 145	A+ Essentials II	4
010 1 10	Credits	16
Fourth Term	oreans	10
CIS 135DB	Database Theory/SQL	4
CIS 179	Networking Essentials	4
CIS 195	Web Development I	4
CIS 279WC	Windows Client	4
or CIS 179L	or Linux Essentials	
Web Development Op	otion, choose from the following: 1	4
CIS 125DV or CIS 125WA	Adobe Premiere or Web Animation	
CIS 125G	Photoshop	
or CIS 125I	or Adobe Illustrator	
CIS 133JS	Introduction to JavaScript	
CIS 133P	Introduction to PHP	
CIS 197	CMS Web Development: WordPress	
CIS 233P	Web Programming	
CIS 280	Co-op Work Experience CIS	
CIS 295	Web Development II	
	Credits	20
Fifth Term		
CIS 244	Information Systems Analysis	4
Web Development Op	tion, choose from the following: ¹	7-8
CIS 125DV or CIS 125WA	Adobe Premiere or Web Animation	
CIS 125G or CIS 125I	Photoshop or Adobe Illustrator	
CIS 133JS	Introduction to JavaScript	
CIS 133P	Introduction to PHP	
CIS 197	CMS Web Development: WordPress	
CIS 233P	Web Programming	
CIS 280	Co-op Work Experience CIS	
CIS 295	Web Development II	
<u>Human Relations:</u>		3-5
	Credits	14-17
Sixth Term		
CIS 297	CIS Professional Capstone	4
Web Development Op	otion, choose from the following: ¹	12
CIS 125DV or CIS 125WA	Adobe Premiere or Web Animation	
CIS 125G	Photoshop	
or CIS 125I	or Adobe Illustrator	
CIS 133JS	Introduction to JavaScript	
CIS 133P	Introduction to PHP	
CIS 197	CMS Web Development: WordPress	
CIS 233P	Web Programming	
CIS 280	Co-op Work Experience CIS	
CIS 295	Web Development II	
	Credits	16
	Total Credits	96-100

Students considering courses in the Web Development Option should work closely with their advisor to determine the proper course sequencing for completing the requirement.