WEB TECHNOLOGIES, A.A.S.

Entry Time

Fall

Award

Associate of Applied Science degree
2 years (5 terms including summer)

Web Technologies provides students with the opportunity to pursue an associate degree built on a strong base of Web-related course work, tailored to the student's individual interest with one of three elective emphasis areas. For those who do not presently need or have time to complete a degree, there are also two shorter certificate options available.

This degree appeals to students with a range of interests connected with the Web. Students begin with a set of basic courses covering HTML and CSS, Web media, and introductory computer and programming skills. As the program progresses, students learn various aspects of Web design and development through courses emphasizing the workflow associated with the planning process, site design and the use of standard technologies, such as content management systems, to provide client solutions. Students also consider the business side of the Web development through courses in marketing and e-commerce, learning about current topics such as Web analytics and search engine optimization along with payments, catalogs and shopping carts. The use of scripting, PHP and databases is also included.

Web Development Emphasis Options

For students wishing to go further with programming, two elective concentrations are offered. The first emphasizes the Java programming language and culminates in a course in creating dynamic interactions with Java Server Pages. The second, based on Microsoft technology, emphasizes the Visual Basic language and culminates in the use of ASP.NET for providing dynamic pages and Web services. Both options include a course in client-side scripting.

Web Graphic Design Emphasis Option

For students wishing to focus on design, there is an elective concentration in Web graphic design, which includes an additional course in digital layout, alongside courses covering several professional graphics tools, including Adobe Photoshop, Illustrator and Flash.

Career Opportunities

- digital developer
- Web editor
- eBusiness Web designer
- Web graphics designer
- information technology designer
- Web marketing specialist
- interactive marketer
- website content manager
- multimedia/Web specialist
- Web software developer
- Web application developer
- Web systems manager

Degree Requirements

Term 1		Credit Hours
CIS-121	Intro to Programming Logic [1]	3
CIS-207	Fundamentals of Web Program [1]	3
NET-130	Computer Concepts [1]	3
NET-165	Network Plus [1]	3
MAT-102	Intermediate Algebra	4
	Term Totals:	**16**
Term 2		
BCA-290	Web Design Principles [1]	3
MKT-110	Principles of Marketing	3
Emphasis Area Course [1]		3
CIS-335	Relational Database and SQL [1]	3
GRA-131	Digital Layout	3
	Term Totals:	**15**
Term 3		
ENG-105	Composition I	3
PSY-111 or MGT-145	Intro to Psychology or Human Relations in Management	3
	Term Totals:	**6**
Term 4		
CIS-290	Web Content & E-Commerce Sys	3
CIS-334	PHP/Apache/MySQL [1]	3
CIS-280	Client Side Scripting [1]	3
Emphasis Area Course [1]		3
Humanities or History/Culture Course (https://creditcatalog.kirkwood.edu/aas-degree-humanities-requirement/)		3
	Term Totals:	**15**
Term 5		
BCA-800	Web Technologies Capstone [1]	3
CIS-342	PHP/Apache/MySQL II [1]	3
ENG-106 or SPC-101	Composition II or Fundamentals of Oral Communication	3
Emphasis Area Course [1]		3
CIS-249	Web Languages [1]	3
WBL-110 or WBL-146	Employability Skills or Project: Info Solutions	1
	Term Totals:	**16**
	Program Totals:	**68**

Emphasis Area Courses

Code	Title	Credit Hours
Graphic Design		
GRA-127	Illustrator I	3
GRA-140	Digital Imaging	3
GRA-195	Intro to Web Media	3
Open Source Programming		
CIS-171	Java	3
CIS-175	Java II	3
CIS-181	Java III	3
Microsoft Programming		
CIS-622	.NET Development I	3
CIS-624	.NET Development II	3
CIS-626	.NET Development III	3

[1] Grade requirement C- or higher