



INTERNET TECHNOLOGY

Associate In Science Degree & Certificate Curriculum Requirements

INTERNET TECHNOLOGY

This major is intended for students wishing to upgrade or acquire new skills in the fast growing field of Internet Technology. There are four areas of concentration: Electronic Business, Web Programming, Web Administration, and Web Development. The course of study includes a foundation in all aspects of the Internet and expands to specialize in one of the above areas.

CAREER OPPORTUNITIES

The explosive growth in the use of the Internet has created a demand for new skill sets. All facets of doing business on the Internet have developed into exciting career opportunities, and these opportunities are as diverse as the Internet itself. Creating, administering, & maintaining Web Sites, as well as starting (and running) a business using the Internet continue to be "in-demand" career skills.

ASSOCIATE DEGREE REQUIREMENTS*

The Associate of Science degree in Internet Technology with a specialty in **Electronic Business, Web Programming, Web Administration, AJAX or Web Publishing**, requires the following:

- Prerequisite of COIN 51, or equivalent.
- English 1A, ESL 26, or equivalent.
- Math 103, 105 or equivalent.
- A minimum of 90 total Units including:
 - all General Education requirements
 - any Internet Technology Career Certificate
 - Electives and other graduation requirements as appropriate

CERTIFICATE REQUIREMENTS*

For All Certificates:

- English proficiency: English 110, ESL 25, or equivalent.
- Mathematics proficiency: Math 101 or equivalent.
- Prerequisite: COIN 51 or equivalent.
- Coursework as outlined below for the four major areas

ELECTRONIC BUSINESS SKILLS

CERTIFICATE (26-29 UNITS)

COIN 56	Electronic Business	(5 Units)
COIN 61	Publishing on the Web using HTML/XHTML	(5 Units)
COIN 72	Internet Marketing	(4 units)
COIN 58	Electronic Commerce Project	(5 Units)
select two from the following group: (7-10 Units)		
CIS 60	Intro to Business Information Systems	(5 Units)
BUSI 95	Small Business Management	(3 Units)
BUSI 22	Principles of Business	(4 Units)
BUSI 53	Survey of International Business	(4 Units)

ELECTRONIC BUSINESS CAREER

CERTIFICATE (37-43 Units)

Requires a Skills Certificate in E Business, and an additional 3 classes (including at least one BUSI class) from:

CNET 50	Fundamentals of Data Comm & Networking	(5 Units)
CIS 60	Introduction to Business Information Systems	(5 Units)
COIN 63	Advanced Topics in Web Publishing	(5 units)
BUSI 22	Principles of Business	(4 Units)

BUSI 53	Survey of International Business	(4 Units)
BUSI 95	Small Business Management	(3 Units)

WEB PROGRAMMING:

CAREER CERTIFICATE (40 Units)

COIN 61	Publishing on the Web using HTML/XHTML	(5 Units)
COIN 63	Advanced Topics in Web Publishing	(5 units)
COIN 70B	Using JavaScript	(5 Units)
COIN 78	eXtensible Markup Language(XML)	(5 Units)
CIS 27A	Computer Science I: JAVA	(5 Units)
CIS 68A	Introduction to Linux and UNIX	(5 Units)
CIS 68E	Introduction to PERL	(5 Units)
and select one from the following group:		
COIN 91	Intro to Database Driven Websites	(5 Units)
COIN 86	Server Side Programming with JSP	(5 Units)
CIS 52N	MySQL and PHP	(5 Units)

WEB ADMINISTRATION:

CAREER CERTIFICATE (40 Units)

COIN 61	Publishing on the Web using HTML/XHTML	(5 Units)
CIS 52A	Introduction to Data Mgmt Systems	(5 Units)
CIS 68A	Introduction to Linux and UNIX	(5 Units)
CIS 68C1	Linux and UNIX System Administration	(5 Units)
COIN 66	WWW Server Management	(5 Units)
CIS 68E	Introduction to PERL	(5 units)
COIN 68	Introduction to CGI using PERL	(5 Units)
COIN 91	Intro to Database Driven Websites	(5 Units)
or CIS 52N	MySQL and PHP	(5 Units)

WEB DEVELOPMENT:

SKILLS CERTIFICATE (25 Units)

COIN 61	Publishing on the Web using HTML/XHTML	(5 Units)
COIN 63	Advanced Topics in Web Publishing	(5 Units)
COIN 65	Using Cascaded Style Sheets for Design	(5 Units)
COIN 70A	Intro to Programming Using JavaScript	(5 Units)
COIN 84	Special Web Projects	(5 Units)

WEB DEVELOPMENT:

CAREER CERTIFICATE (44-45 Units)

COIN 61	Publishing on the Web using HTML/XHTML	(5 Units)
COIN 63	Advanced Topics in Web Publishing	(5 Units)
COIN 65	Using Cascaded Style Sheets for Design	(5 Units)
COIN 70A	Intro to Programming Using JavaScript	(5 Units)
COIN 70B	Using JavaScript	(5 Units)
COIN 84	Special Web Projects	(5 Units)
and select three from the following group:		
COIN 76	Web Publishing Tools: Multimedia	(5 Units)
COIN 74A	Web Publishing Tools: Dreamweaver Basics	(5 Units)
CAST 52A	Introduction to Macromedia Flash	(5 Units)
COIN 82	Images for the Web	(4 Units)

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AJAX: CAREER CERTIFICATE (35 Units)

COIN 61	Publishing on the Web using HTML/XHTML	(5 Units)
COIN 63	Advanced Topics in Web Publishing	(5 Units)
COIN 65	Using Cascaded Style Sheets for Design	(5 Units)
COIN 78	eXtensible Markup Language(XML)	(5 Units)
COIN 70A	Intro to Programming Using JavaScript	
Or COIN 70B	Using JavaScript	(5 Units)
COIN 71	Application S/W development with AJAX	(5 Units)
and select one from the following group:		
CIS 27A	Computer Science I: JAVA	(5 Units)
CIS 78	Software Engineering	(5 Units)
CIS 12A	Fundamentals of Visual Basic .NET	(5 Units)
CIS 15A	Computer Science I: C++	(5 Units)

WEB-BASED MULTIMEDIA:

SKILLS CERTIFICATE (25 Units)

COIN 61	Publishing on the Web using HTML/XHTML	(5 Units)
COIN 76	Web Publishing Tools: Multimedia	(5 Units)
CAST 52A	Introduction to Macromedia Flash	(5 Units)
CAST 52B	Advanced Macromedia Flash	(5 Units)
COIN 84	Special Web Projects	(5 Units)

WEB PUBLISHING: DREAMWEAVER

SKILLS CERTIFICATE (25 Units)

COIN 61	Publishing on the Web using HTML/XHTML	(5 Units)
COIN 74A	Web Publishing Tools: Dreamweaver Basics	(5 Units)
CAST 74B	Web Publishing Tools: Dreamweaver Interactive	(5 Units)
CAST 74C	Web Publishing Tools: Dreamweaver Interactive II	(5 Units)
COIN 84	Special Web Projects	(5 Units)

* 50% of the major units must be taken within CTIS and a grade of C or better is required in these classes. All courses pertaining to the major must be taken for a letter grade. In addition, a GPA of 2.0 or higher is required in all Core and Support courses for the Degree or Certificate.

Academic Year 2007-2008