



# INTERNET TECHNOLOGY

Associate in Science Degree & Certificate 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 within this subject area, including: Electronic Business, Web Programming, Web Administration, and Web Publishing. 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.

## UNITS REQUIRED FOR MAJOR: 35-45

## UNITS REQUIRED FOR CERTIFICATE(S): 25-45

## ASSOCIATE DEGREE REQUIREMENTS:

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

- English proficiency: ENGL 1A, ESL 26 or equivalent.
- Mathematics proficiency: MATH 103/105 or equivalent.

A minimum of 90 units required to include:

- All General Education requirements
- COIN 51 Fundamentals of Internet Technology (5 Units), or equivalent
- Coursework equivalent to obtaining any **Internet Technology Proficiency Certificate**
- Electives & other Graduation requirements as appropriate

**NOTE:** 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 Certificates. 50% of the major units must be taken within Computers, Technology and Information Systems Division.

## CERTIFICATE INFORMATION:

For All Certificates:

- English proficiency: ENGL 110, ESL 25, or equivalent.
- Mathematics proficiency: MATH 220 or equivalent.
- Prerequisite: COIN 51 or equivalent.
- Coursework as outlined below for the four major areas.

### Electronic Business Skill Certificate (27 Units)

COIN 56 E-Business (5 Units)

COIN 61 Publishing on the Web Using HTML/XHTML (5 Units)

COIN 72 Web Marketing (4 Units)

COIN 58 Electronic Commerce Projects (5 Units)

### **And TWO from the following:**

CIS 60 Introduction to Business Information Systems (5 Units)

BUSI 95 Entrepreneurship: Small Business Management (4 Units)

BUSI 22 Principles of Business (4 Units)

BUSI 53 Survey of International Business (4 Units)

### Electronic Business Certificate of Achievement (41 Units)

Requires all the coursework for the **Electronic Business**

**Skills Certificate** (27 Units),

### **And TWO** from the following:

CNET 50 Fundamentals of Data Communication & Networking (5 Units)

CIS 60 Introduction to Business Information Systems (5 Units)

COIN 63 Advanced Topics in Web Publishing (5 Units)

### **And ONE** from the following:

BUSI 22 Principles of Business (4 Units)

BUSI 53 Survey of International Business (4 Units)

BUSI 95 Small Business Management (3 Units)

### Web Programming Certificate of Achievement (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 & UNIX (5 Units)

CIS 68E Introduction to PERL (5 Units)

### **And ONE** from the following:

COIN 91 Introduction to Database-Driven Web Sites (5 Units)

CIS 52N PHP & MySQL (5 Units)

COIN 86 Server-Side Programming with Java Server Pages (5 Units)

### Web Administration Certificate of Achievement (40 Units)

COIN 61 Publishing on the Web Using HTML/XHTML (5 Units)

CIS 52A Introduction to Data Management Systems (5 Units)

CIS 68A Introduction to Linux & UNIX (5 Units)

CIS 68C1 Linux & UNIX System Administration (5 Units)

COIN 66 Apache Web Server Management (5 Units)

CIS 68E Programming in PERL (5 Units)

COIN 68 CGI Scripting Using PERL (5 Units)

COIN 91 Introduction to Database-Driven Web Sites (5 Units)

or CIS 52N PHP & MySQL (5 Units)

### Web Development Skill 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 Introduction to Programming Using JavaScript (5 Units)

COIN 84 Special Web Projects (5 Units)

**FOOTHILL COLLEGE  
GENERAL EDUCATION & GRADUATION REQUIREMENTS  
2008-2009**

**Web Development Certificate of Proficiency (44 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 (CSS) for Design (5 Units)  
COIN 70A Introduction to Programming Using JavaScript (5 Units)  
COIN 70B Using JavaScript (5 Units)  
COIN 84 Special Web Projects (5 Units)  
**And THREE** from the following:  
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)

**Web-Based Multimedia Skill 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)

**AJAX Certificate of Proficiency (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 (CSS) for Design (5 Units)  
COIN 78 eXtensible Markup Language (XML) (5 Units)  
COIN 70A Introduction to Programming Using JavaScript (5 Units)  
or COIN 70B Using JavaScript (5 Units)  
COIN 71 Application Software Development with AJAX (5 Units)

**And ONE** from the following:

CIS 12A Fundamentals of Visual Basic .NET Programming (5 Units)  
CIS 15A Computer Science I: C++ (5 Units)  
CIS 27A Computer Science I: JAVA (5 Units)  
CIS 78 Software Engineering (5 Units)

**Web Publishing: Dreamweaver Certificate of Achievement (25 Units)**

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

**Academic Year 2008-2009**

The requirements for the Associate in Art or Associate in Science Degree include completion of (1) a minimum of 90 units in prescribed courses; (2) a minimum of 24 units taken at Foothill College; (3) a grade-point average of 2.0 or better in all college courses including Foothill courses; (4) a major of at least 27 units in a curriculum approved by the Foothill Curriculum Committee; and (5) the seven general education requirements listed below. Students planning to transfer to four-year colleges or universities should also check with a counselor for the specific requirements of those institutions.

Students must successfully complete a minimum of 30-35 units from the courses listed below with at least one course in Humanities, English, Natural Sciences (with lab), Social and Behavioral Sciences, Communication and Analytical Thinking, American Cultures and Communities, and two courses in Lifelong Understanding from two different academic departments. **Courses may only be used in one area.**

**I. Humanities**

**Arts:** ART 1, 2A, 2AH, 2B, 2BH, 2C, 2CH, 2D, 2E, 4A with 4AX, 5A with 5AX, 11, 14, 36, 45A with 45AX; F A 1; GID 1; MUS 1, 2A, 2B, 2C, 3A, 3B, 3C, 7, 7E, 7D, 8, 8H, 10, 64A, 64B, 64C, 85A, 85B; PHOT 1, 5, 8, 8H, 10, 11; THTR 1, 5, 5B, 20A, 20B, 20C, 20D, 24, 30; VART 2A, 2B, 2C, 36B; WMN 15.  
**Letters:** CHIN 1, 2, 3, 4, 5, 6, 13A, 13B, 14A, 14B, 25A, 25B; COMM 24; CRWR 6, 36B, 39A, 39B, 40, 41A, 41B, 60; ENGL 5, 8, 11, 12, 14, 17, 22, 23, 25, 25H, 26, 31, 32, 42A, 42B, 42C, 43, 45, 46A, 46B, 46C, 48A, 48B, 48C; FREN 1, 2, 3, 4, 5, 6, 13A, 13B, 14A, 14B, 25A, 25B, 39; GERM 1, 2, 3, 4, 5, 6, 13A, 13B, 14A, 14B, 25A, 25B, 39; HIST 4A, 4B, 4C, 4CH; HUMN 1A, 1B; JAPN 1, 2, 3, 4, 5, 6, 13A, 13B, 25A, 25B, 33; KORE 1, 2, 3, 4, 5, 6; LING 23, 25, 25H, 26; PHIL 2, 4, 8, 11, 20A, 22, 24, 25; SPAN 1, 2, 3, 4, 5, 6, 10A, 13A, 13B, 14A, 14B, 25A, 25; THTR 2A, 2B, 2C, 8.

**II. English**

ENGL 1A, 1AH or ESL 26.

**III. Natural Sciences (with laboratory)**

ASTR 10A with 10L, 10B with 10L, 10BH with 10L; BIOL 1A, 1B, 1C, 9 with 9L, 10, 13, 14, 15, 40A, 40B, 40C, 41; CHEM 1A, 10, 25, 30A; GEOG 1; GEOL 10, 11; HORT 10; MET 10 with 10L; PHYS 2A, 4A, 10.

**IV. Social & Behavioral Sciences**

ANTH 1, 2A, 2B, 3, 4, 5, 6, 8; BUSI 22, 53; CHLD 55; ECON 1A, 1B, 9, 12, 25; GEOG 1, 2, 5, 9, 10; GERM 8; HIST 4A, 4B, 4C, 4CH, 8, 9, 9H, 10, 15, 16, 16H, 17A, 17B, 17C, 18, 19, 20, 23A, 30; POLI 1, 2, 2H, 3, 3H, 5, 7, 8, 9, 15, 15H; PSYC 1, 4, 10, 14, 21, 22, 25, 30, 33, 40, 49, 55; SOC 1, 10, 11, 15, 19, 20, 21, 23, 30, 40; SOSC 20, WMN 5, 11, 21.

**V. Communication & Analytical Thinking**

CIS 12A, 15A, 18, 25A; COMM 1A, 1B, 2, 3, 4, 12, 24, 30, 46, 55; ENGL 1B, 1BH, 4; MATH 1A, 1B, 1C, 2A, 2B, 10, 11, 12, 22, 44, 46, 49, 51; PHIL 1, 7, 8, 50.

**VI. American Cultures and Communities**

ANTH 4; ART 2D; BIOL 14; CHLD 11; COMM 10, 12; ENGL 5, 8, 12, 31, 41, 48A, 48B, 48C; HIST 9, 9H, 10; MUS 8, 8H; PHIL 22; PHOT 8, 8H; POLI 7; PSYC 22; SOC 8, 23; SOSC 20; SPED 61; THTR 8; WMN 5, 11.

**VII. Lifelong Understanding**

Students must successfully complete a total of four units or more in Lifelong Understanding from two different academic departments. BIOL 8, 9, 45; BUSI 91L; CIS 2, 50A, 60; COIN 51; CNSL 1, 2, 72, 80, 90; COMM 2, 10, 12; CRLP 55, 70; DANC 1A, 1B, 2, 3A, 3B, 4, 5, 6, 7; HLTH 21; PHED 4; any physical activity course (PHED) or ALAP 60, 60X, 61, 61X, 62, 62X, 63, 63X, 64, 64X, 65, 65X, 66, 66X, 70, 70X, 71, 71X, 80, 80X; LIBR 1, 50, 71; SOC 19, 40; SOSC 20; SPED 52, 61, 72.

**Minimum proficiency: ENGL 1A or ESL 26 and MATH 103 or MATH 105\*, completed with a letter grade of "C" or better.**

\*Intermediate Algebra or equivalent means MATH 103 or 105, or mathematics placement test score indicating eligibility for a mathematics course beyond the level of MATH 105, or completion of a higher-level course with a grade of "C" or better, or completion of a bachelor degree or higher from an accredited U.S. college or university.