Information Technology:
Software and Web Development

A25590C (Associate Degree)
C25590E (Certificate) C25590F (Certificate)

Software and Web Development is a curriculum within the Information Technology Pathway: The Information Technology (IT) curriculum prepares graduates for employment in the technology sector as designers, testers, support technicians, system administrators, developers, or programmers who use computer software and\or hardware to design, process, implement and manage information systems in specialties such as database services, security, business intelligence, healthcare informatics and others depending on the technical path selected within this curriculum.

Course work includes development of a student's ability to create, store, communicate, exchange and use information to solve technical issues related to information support and services, interactive media, network systems, programming and software development, information security and other emerging technologies based on the selected area of study.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to design and manage information. The program will incorporate the competencies of industry-recognized certification exams.

In addition to the courses listed below, students may be required to take transition/co-requisite classes based on RISE criteria. These classes do not count toward hours required for graduation.

Software and Web Development
Associate Degree Program (A25590C)

Title			Class/Lab/Credit		
I. General Education Courses					
ENG	111	Writing and Inquiry	3	0	3
COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Select one course each from Humanities/Fine Arts and Social/Behavioral Sciences on page 79.

Title			Class/Lab/Credit		
II. Major Courses					
CIS	110	Introduction to Computers	2	2	3
CTI	110	Web, Pgm,and Db Foundation	2	2	3
CTI	120	Network & Sec Foundation	2	2	3
CTS	115	Info Sys Business Concepts	3	0	3
III. Concentration					
CSC	151	Java Programming	2	3	3
WEB	115	Web Markup and Scripting	2	3	3

IV. Other Major Courses

DBA	110	Database Concepts	2	3	3
GRD	151	Computer Design Basics	1	4	3
GRD	152	Computer Design Tech I	1	4	3
WEB	111	Intro to Web Graphics	2	2	3
WEB	120	Intro to Internet Multimedia	2	2	3
WEB	140	Web Development Tools	2	3	3
WEB	151	Mobile Application Dev I	2	3	3
WEB	182	PHP Programming	2	3	3
WEB	210	Web Design	2	2	3
WEB	225	Content Management Systems	2	2	3
WEB	250	Database Driven Websites	2	2	3
WEB	285	Emerging Web Technologies	2	2	3
WEB	287	Web E-Portfolio	1	3	2

V. Other Required Courses

ACA	115	Success and Study Skills	0	2	1

Total Credits: 72

Recommended Semester Schedule

First Year-Fall

ACA	115	Success and Study Skills	0	2	1
CIS	110	Intro to Computers	2	2	3
CTS	115	Info Sys Business Concepts	3	0	3
CTI	110	Web, Pgm, & Db Foundation	2	2	3
WEB	111	Intro to Web Graphics	2	2	3
WEB	115	Web Markup & Scripting	2	3	3

First Year-Spring

CSC	151	Java Programming	2	3	3
DBA	110	Database Concepts	2	3	3
WEB	120	Intro Internet Multimedia	2	2	3
WEB	225	Content Management System	2	2	3

First Year-Summer

COM	120	Interpersonal Communication	3	0	3
or					
COM	231	Public Speaking	3	0	3
Humanities Elective			3	0	3
Social Science Elective			3	0	3

Second Year-Fall

GRD	151	Computer Design Basics	1	4	3
WEB	140	Web Development Tools	2	3	3
WEB	182	PHP Programming	2	3	3
WEB	210	Web Design	2	2	3

			Class	Lab	Credit
WEB	285	Emerging Web Technologies	2	2	3

Second Year-Spring

CTI	120	Network & Security Foundation	2	2	3
GRD	152	Computer Design Tech I	1	4	3
WEB	151	Mobile Application Dev I	2	3	3
WEB	250	Database Driven Websites	2	2	3
WEB	287	Web E-Portfolio	1	3	2

Second Year-Summer

ENG	111	Expository Writing	3	0	3
MAT	143	Quantitative Literacy	2	2	3

Software and Web Development Certificate Program (C25590E)

Title			Class/Lab/Credit		

I. Major Courses

CSC	151	Java Programming	2	3	3
WEB	115	Web Markup and Scripting	2	3	3

II. Other Major Courses

DBA	110	Database Concepts	2	3	3
WEB	111	Intro to Web Graphics	2	2	3

Total Credits: 12

Recommended Semester Schedule

<u>*First Year-Fall*</u>

WEB 111		Web Graphics	2	2	3
WEB 115		Web Markup and Scripting	2	3	3

First Year-Spring

CSC 151		Java Programming	2	3	3
DBA 110		Database Concepts	2	3	3

Software and Web Development Advanced Certificate Program (C25590F)

Title			Class/Lab/Credit		

I. Major Courses

CTI 120		Network & Sec Foundation	2	2	3

II. Other Major Courses

WEB	182	PHP Programming	2	3	3

| WEB | 210 | Web Design | 2 | 2 | 3 |
| WEB | 250 | Database Driven Websites | 2 | 2 | 3 |

Total Credits: 12

Recommended Semester Schedule

First Year-Fall

| WEB | 182 | PHP Programming | 2 | 3 | 3 |
| WEB | 210 | Web Design | 2 | 2 | 3 |

First Year-Spring

| CTI | 120 | Network & Sec Foundation | 2 | 2 | 3 |
| WEB | 250 | Database Driven Websites | 2 | 2 | 3 |