

# Associate of Applied Business Degree Business

## Information Technology and Computer Science

### Computer Science/Programming

#### Internet Programming Concentration (9256)

This program provides students with skills necessary to establish and maintain an effective Web presence. Students will design and create the interface between data storage and the user, create dynamic web pages, and add interactivity to their sites with an emphasis on Internet programming languages and techniques. This concentration is designed to prepare graduates for employment with organizations that use computers to distribute information via the Internet internally, externally, and/or globally.

#### First Semester:

BUSM 1300 . . . . .	Introduction to Business . . . . .	3
<b>ENGL 1110*</b> . . . . .	<b>English Composition I (A)</b> . . . . .	3
<b>OR</b>		
<b>ENGL 1111</b> . . . . .	<b>English Composition I (B)</b>	
<b>(1st 8 weeks)</b>		
ITIS 1005 . . . . .	Computers and Information Processing . . . . .	3
<b>(2nd 8 weeks)</b>		
ITCS 1010 . . . . .	Programming Logic . . . . .	3
ITIS 1100 . . . . .	Internet: Services, Tools and Web Page Creation . . . . .	2
ITIS 1115 . . . . .	Internet Technologies and Concepts . . . . .	2
ITIS 1130 . . . . .	Introduction to Web Design . . . . .	1
<b>ITON 1020</b> . . . . .	<b>Using Microsoft Windows</b> . . . . .	1
<b>OR</b>		
<b>ITON 1030</b> . . . . .	<b>Using Microsoft Windows Vista</b>	

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#### Second Semester:

<b>ECON 1150</b> . . . . .	<b>Basic Economics</b> . . . . .	3
<b>OR</b>		
<b>ECON 2600****</b> . . . . .	<b>Principles of Microeconomics</b>	
ENGL 1121 . . . . .	English Composition II - Technical Focus . . . . .	3
ITCS 1105 . . . . .	Web Programming I . . . . .	2
ITCS 1820 . . . . .	Java Programming I . . . . .	3
ITDB 1400 . . . . .	Introduction to Oracle SQL . . . . .	2
ITIS 1012** . . . . .	Applied Computer Mathematics . . . . .	3
<b>SPCH 1050***</b> . . . . .	<b>Fundamentals of Public Speaking</b> . . . . .	2
<b>OR</b>		
<b>SPCH 1150</b> . . . . .	<b>Fundamentals of Interpersonal Communication</b>	

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#### Third Semester:

<b>ITCS 1810</b> . . . . .	<b>Visual Basic.NET Programming I</b> . . . . .	3
<b>OR</b>		
<b>ITCS 1840</b> . . . . .	<b>Visual C#.NET Programming I</b>	
ITCS 2010 . . . . .	Systems Analysis . . . . .	3
ITCS 2105 . . . . .	Web Programming II . . . . .	3
ITCS 2140 . . . . .	CGI Programming . . . . .	3
ITIS 1108 . . . . .	Using an HTML Editor . . . . .	2
ITON 1725 . . . . .	Introduction to the Linux/Unix Operating System . . . . .	2
Choose course(s) from the Technical/Related Electives list . . . . .		

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#### Fourth Semester:

BUSM 1700 . . . . .	Principles of E-Business . . . . .	3
ITCS 2150 . . . . .	PHP Programming I . . . . .	2
ITCS 2170 . . . . .	Introduction to ASP.NET . . . . .	2
ITCS 2190 . . . . .	Internet Specialist Capstone . . . . .	4
MATH 2130 . . . . .	Business Statistics I . . . . .	3
Choose course(s) from the Arts and Humanities Electives list . . . . .		

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**Program Total: 71**

*\*English course selection is based on placement test results (ENGL 1111 is 4 credits, only 3 credits apply to the degree).*

*\*\*Students planning to transfer to a four-year college should take a sequence of math as advised by their counselor.*

*\*\*\*Students may substitute either SPCH 1000 or SPCH 1100. One of these 3 credit courses may be required for students transferring to a four-year college.*

*\*\*\*\*For students planning to transfer to a four-year college, the combination of ECON 2600 with BUSM 2500 will enhance transferability of BUSM 2500.*

#### **Technical/Related Electives:** minimum 2 credits

ACCT . . . . .	any Accounting (ACCT) course(s)	
BUSM 2500 . . . . .	Principles of Marketing . . . . .	3
BUSM 2550 . . . . .	Direct and Internet Marketing . . . . .	3
CPET 1050 . . . . .	Assembling, Upgrading and Repairing Personal Computers . . . . .	2
GRDS 1010 . . . . .	Visual Organization . . . . .	3
GRDS 1015 . . . . .	Typography . . . . .	3
GRDS 1020 . . . . .	Graphic Design . . . . .	3
ITCS 2110 . . . . .	XML Programming I . . . . .	2
ITDB 1405 . . . . .	Introduction to Oracle PL/SQL . . . . .	2
ITDB 1420 . . . . .	Develop Oracle PL/SQL Program Units . . . . .	2
ITIS 1120 . . . . .	Introduction to Flash . . . . .	2
ITIS 2015 . . . . .	Information Technology Project Management . . . . .	3
ITON 1730 . . . . .	Implementing and Administering Linux . . . . .	2
Any Information Technology (ITCS, ITDB, ITIS, ITON) course(s) except ITIS 1000		
<b>PHOT 1100</b> . . . . .	<b>Basic Photography</b> . . . . .	3
<b>OR</b>		
<b>PHOT 1105</b> . . . . .	<b>Basic Photography - Digital</b>	
PHOT 2300 . . . . .	Electronic Imaging I . . . . .	3
PHOT 2350 . . . . .	Electronic Imaging II . . . . .	3

#### **Arts and Humanities Electives:** minimum 3 credits

ARTS 1120, 2220, 2230, 2240; ENGL 2250, 2260, 2280, 2290; HUMX 1100, 1200; MUSC 1200, 2200, 2250; PHIL 1500, 2000