

## Requirements for Bachelor of Science Degree in Computer and Information Technology with Information Technology (IT) Emphasis

Effective July 2009

Page 1 of 2

<b>General Education Requirements:</b> Students must complete the DSC requirements for General Education or equivalent.		
<b>IT Emphasis Requirements</b>	<b>Credits</b>	<b>Prerequisites and notes</b>
<input type="checkbox"/> CS 1400, Fundamentals of Programming	3	
<input type="checkbox"/> CS 1410, Object Oriented Programming	3	CS 1400
<input type="checkbox"/> CS 2420, Intro to Algorithms and Data Structures	3	CS 1410
<input type="checkbox"/> IT 1100, Introduction to Operating Systems	3	
<input type="checkbox"/> IT 2400, Introduction to Networking	3	IT 1100 (Pre or Co-Requisite)
<input type="checkbox"/> IT 3100, Systems Design and Administration I	3	CS 1400 and IT 2400
<input type="checkbox"/> IT 3110, Systems Design and Administration II	3	IT 3100
<input type="checkbox"/> IT 3500, Electronic Commerce	3	
<input type="checkbox"/> IT 4200, Advanced Web Delivery	3	IT 3100 and VT 1400
<input type="checkbox"/> IT 4300, Database Design and Management	3	CS 1410 and IT 2400
<input type="checkbox"/> IT 4400, Network Design and Management	3	IT 2400
<input type="checkbox"/> IT 4500, Information Security	3	CS 1410 and IT 3100
<input type="checkbox"/> IT 4600, Senior Project	3	Instructor Permission Required
<input type="checkbox"/> MATH 1100, Business Calculus or MATH 1210, Calculus I	3  5	MATH 1050  MATH 1050 and 1060, or MATH 1065
<input type="checkbox"/> VT 1300, Communication Design	3	
<input type="checkbox"/> VT 1400, Intro. to Internet Development	3	
<input type="checkbox"/> VT 2500, Computer Illustration	3	VT 1300
<input type="checkbox"/> VT 2600, Creative Imaging	3	VT 1300
<input type="checkbox"/> ENGL 3010, Writing in the Professions	3	ENGL 2010
<b>TOTAL</b>	<b>57-59</b>	
<b>IT Emphasis Electives (15 credits from the following)</b>	<b>Credits</b>	<b>Prerequisites and Notes</b>
<input type="checkbox"/> CS 2450, Software Engineering	3	CS 2420
<input type="checkbox"/> CS 2810, Computer Organization and Architecture	3	CS 1410
<input type="checkbox"/> CS 3000, Internet Publishing and Design	3	CS 2420
<input type="checkbox"/> CS 3100, Interactive Multimedia	3	CS 2420
<input type="checkbox"/> CS 3400, Operating Systems	3	CS 2420 and CS 2810
<input type="checkbox"/> CS 3410, Distributed Systems	3	CS 2420, CS 2810 and IT 2400
<input type="checkbox"/> CS 3500, Application Development	3	CS 1410
<input type="checkbox"/> CS 3600, Graphics Programming	3	CS 2420 and CS 2810
<input type="checkbox"/> CS 4000, Dynamic Web Development	3	CS 2420 and VT 1400
<input type="checkbox"/> CS 4010, Interactive Web Development	3	CS 2420 and VT 1400
<input type="checkbox"/> CS 4100, Advanced Multimedia/Internet Integration	3	CS 2420
<input type="checkbox"/> CS 4300, Artificial Intelligence	3	CS 2420 and CS 2810
<input type="checkbox"/> CS 4550, Compilers	3	CS 2420 and CS 2810
<input type="checkbox"/> IT 3200, Perl Programming	3	CS 1410
<input type="checkbox"/> MKTG 3010, Marketing Principles	3	CIS 1200 and ENGL 2010

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Page 2 of 2

<input type="checkbox"/>	VT 3000, Internet Publishing and Design	3	CS 1400 and VT 1400 and VT 2500 and VT 2600
<input type="checkbox"/>	VT 3100, Interactive Multimedia	3	CS 1400 and VT 2500 and VT 2600
<input type="checkbox"/>	VT 3200, Advanced Design	3	VT 2500, VT 2600 and VT 2700
<input type="checkbox"/>	VT 3800, Corporate Identity	3	VT 2500
<input type="checkbox"/>	VT 4000, Dynamic Web Development	3	VT 3000
<input type="checkbox"/>	VT 4010, Interactive Web Development	3	CS 1410 and VT 3000
<input type="checkbox"/>	VT 4100, Advanced Multimedia/ Internet Integration	3	VT 3100
	<b>TOTAL</b>	<b>15</b>	
<p><b>A minimum of 40 upper-division credits are required. Total credits for baccalaureate degree: 120</b>  <b>All CS, IT, and VT prerequisites require a grade of C- or better. Math requires C or better.</b>  <b>For each cross-listed CS and VT course, only one may be used to fill elective credits.</b></p>			