Requirements for Bachelor of Science Degree in
Computer and Information Technology with
Information Technology (IT) Emphasis
Effective July 2010
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General Education Requirements: Students must complete the DSC requirements for General Education or equivalent.		
IT Emphasis Requirements	**Credits**	**Prerequisites and notes**
☐ CS 1400, Fundamentals of Programming	3	
☐ CS 1410, Object Oriented Programming	3	CS 1400
☐ CS 2420, Intro to Algorithms and Data Structures	3	CS 1410
☐ IT 1100, Introduction to Operating Systems	3	
☐ IT 2400, Introduction to Networking	3	IT 1100
☐ IT 3100, Systems Design and Administration I	3	CS 1400 and IT 2400
☐ IT 3110, Systems Design and Administration II	3	IT 3100
☐ IT 3500, Electronic Commerce	3	
☐ IT 4200, Advanced Web Delivery	3	IT 3100 and VT 1400
☐ IT 4300, Database Design and Management	3	CS 1400 and IT 1100
☐ IT 4400, Network Design and Management	3	IT 2400
☐ IT 4500, Information Security	3	CS 1400 and IT 3100
☐ IT 4600, Senior Project	3	Senior Status
☐ MATH 1100, Business Calculus or MATH 1210, Calculus I	3 5	MATH 1050 MATH 1050 and 1060, or MATH 1065
☐ VT 1300, Communication Design	3	
☐ VT 1400, Intro. to Internet Development	3	
☐ VT 2500, Computer Illustration	3	VT 1300
☐ VT 2600, Creative Imaging	3	VT 1300
☐ ENGL 3010, Writing in the Professions	3	ENGL 2010
TOTAL	**57-59**	

IT Emphasis Electives (15 credits from the following)	**Credits**	**Prerequisites and Notes**
☐ CS 2450, Software Engineering	3	CS 2420
☐ CS 2810, Computer Organization and Architecture	3	CS 1410
☐ CS 3000, Internet Publishing and Design	3	CS 2420
☐ CS 3005, Programming in C++	1	CS 1410
☐ CS 3100, Interactive Multimedia	3	CS 2420
☐ CS 3400, Operating Systems	3	CS 2420 and CS 2810
☐ CS 3410, Distributed Systems	3	CS 2420, CS 2810 and IT 2400
☐ CS 3500, Application Development	3	CS 1410
☐ CS 3600, Graphics Programming	3	CS 2420 and CS 2810
☐ CS 4000, Dynamic Web Development	3	CS 2420 and VT 1400
☐ CS 4010, Interactive Web Development	3	CS 2420 and VT 1400
☐ CS 4100, Advanced Multimedia/Internet Integration	3	CS 2420
☐ CS 4300, Artificial Intelligence	3	CS 2420 and CS 2810
☐ CS 4550, Compilers	3	CS 2420 and CS 2810
☐ IT 3200, Perl Programming	3	CS 1410
☐ IT 3550, Internet and E-Commerce Marketing	3	
☐ MKTG 3010, Marketing Principles	3	CIS 1200 and ENGL 2010

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☐	VT 3000, Internet Publishing and Design	3	CS 1400 and VT 1400 and VT 2500 and VT 2600
☐	VT 3100, Interactive Multimedia	3	CS 1400 and VT 2500 and VT 2600
☐	VT 3200, Advanced Design	3	VT 2600 and VT 2700
☐	VT 3800, Corporate Identity	3	VT 2500
☐	VT 4000, Dynamic Web Development	3	VT 3000
☐	VT 4010, Interactive Web Development	3	CS 1410 and VT 3000
☐	VT 4100, Advanced Multimedia/ Internet Integration	3	VT 3100
	TOTAL	**15**	

**A minimum of 40 upper-division credits are required. Total credits for baccalaureate degree: 120
All CS, IT, and VT prerequisites require a grade of C or higher. Math prerequisites requires C or higher. All courses listed above must be completed with a grade of C- or higher. A GPA of 2.0 or higher is required for graduation. For each cross-listed CS and VT course, only one may be used to fill elective credits.
NOTE: This is a worksheet only. For graduation you must use the 2010-2011 Catalog.**

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