

Computer & Information Sciences
Information Technology
Catalog Years 2010-11 Through 2011-2012

Required Courses (34 units)		Units	Grade
_____ CIS 211	Fundamentals of Information Systems and Technology	3	_____
_____ CIS 350	Telecommunications	3	_____
_____ CIS 377	Information Systems Security	3	_____
_____ CIS 435	Human Computer Interaction	3	_____
_____ COSC 236	Introduction to Computer Science I	4	_____
_____ COSC 418	Ethics and Societal Concerns of Computer Scientists (gened II.A., core 9)	3	_____
_____ ITEC 231	Fundamentals of Web Technologies	3	_____
_____ ITEC 315	Data and Information Management	3	_____
_____ ITEC 325	System Administration and Maintenance	3	_____
_____ ITEC 411	System Architecture and Integration	3	_____
_____ ITEC 485	Information Technology Capstone	3	_____

Elective Courses (15 - 16 units) [only 1 lower level course permitted for elective]		Units	Grade
_____ CIS 212	Introduction to Business Programming OR	3-4	_____
_____ ITEC 217	Computing Hardware and Infrastructure OR		
_____ CIS 265	Visual Basic Programming OR		
_____ COSC 237	Introduction to Computer Science II		
_____ CIS 440	Systems Development for E-Commerce	3	_____
_____ CIS 445	Universal Usability	3	_____
_____ ITEC 336	Legal and Policy Issues in Information Technology	3	_____
_____ ITEC 345	Scripting Languages	3	_____
_____ ITEC 397	Internship in Information Technology	3	_____
_____ ITEC 423	Emerging Internet Technologies	3	_____
_____ ITEC 425	Enterprise IT Architecture	3	_____
_____ ITEC 427	Cloud Computing for Enterprises	3	_____
_____ ITEC 437	Disaster Recovery and Enterprise Continuity	3	_____
_____ ITEC 450	Advanced Networking	3	_____
_____ ITEC 451	Advanced Data Management and Analysis	3	_____
_____ ITEC 464	Web Development	3	_____
_____ ITEC 470	Special Topics in Information Technology	3	_____
_____ ITEC 495	Independent Study in Information Technology	3	_____

Required General Education Courses (6 units)		Units	Grade
_____ COSC 111	Info and Tech for Business (I.B)	3	_____
_____ ENGL 317	Writing for Business and Industry (I.D)	3	_____

Total Units

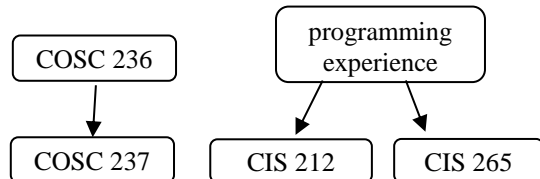
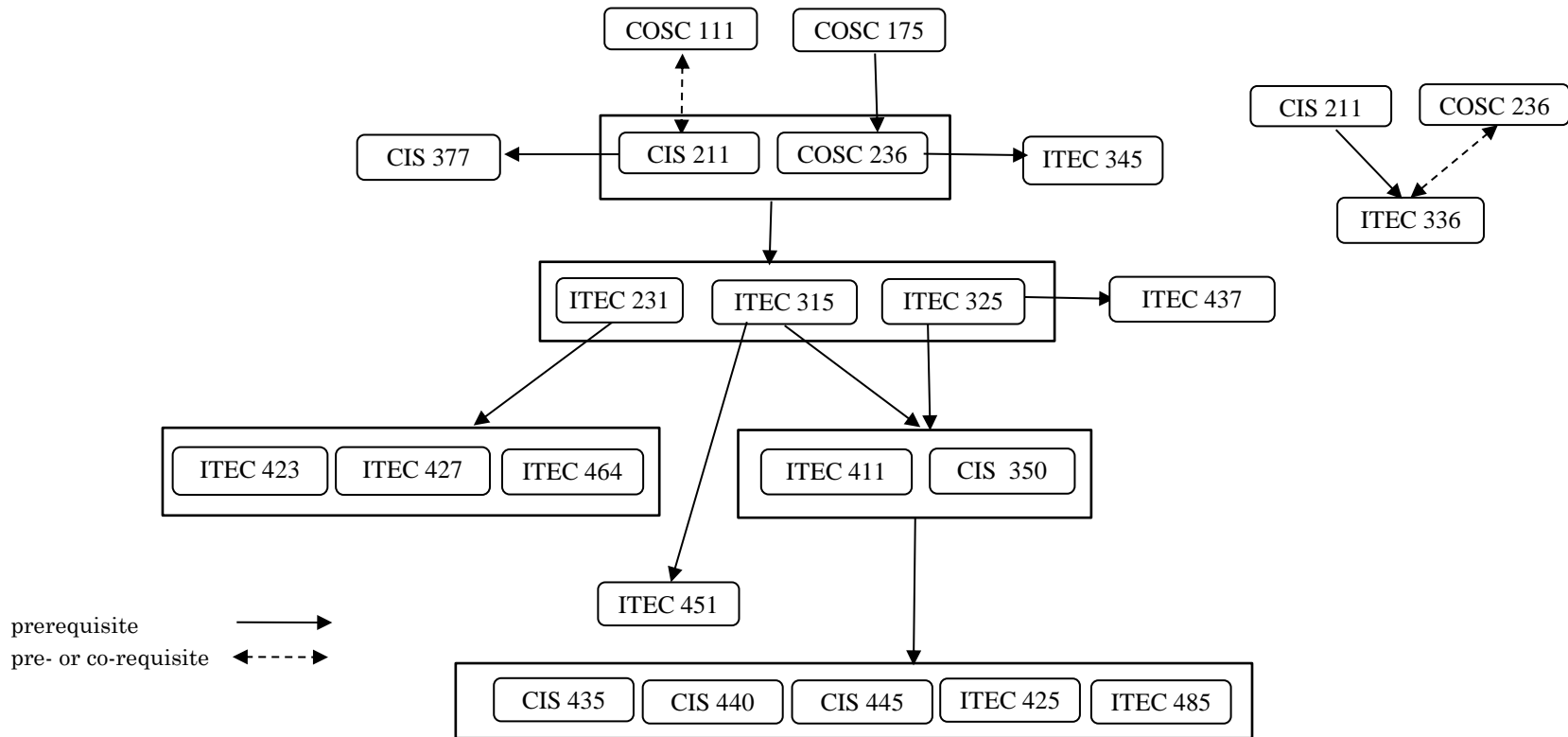
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All courses required for the major MUST be completed with a C or better

Computer & Information Sciences

Information Technology

Prerequisites 10-11 through 11-12



- COSC 418 one course from CIS, COSC, or ITEC; ENGL 317; jr or sr standing
- ITEC 397 9 units upper-level CIS, ITEC courses and consent of instructor
- ITEC 470 12 units of ITEC, CIS, COSC courses and consent of instructor
- ITEC 495 senior standing in IT and consent of instructor

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Information Technology

Suggested Course Sequence

2010-11 and later

<u>1st Semester</u>		<u>Units</u>
MATH 119	Pre-Calculus (I.C)	4
COSC 111	Information and Technology for Business (I.B.)	3
	General Education	3
	General Education	3
	General Education	3
		16

<u>2nd Semester</u>		<u>Units</u>
COSC 175	General Computer Science (general elective)	4
	General Education	3
	General Education	3
	General Education	3
	General Education	3
		16

<u>3rd Semester</u>		<u>Units</u>
CIS 211	Fundamentals of Info Systems and Technology	3
COSC 236	Introduction to Computer Science I	4
	General Education	3
	General Education	3
	General Education	3
		16

<u>4th Semester</u>		<u>Units</u>
ITEC 231	Fundamentals of Web Technologies	3
ENGL 317	Writing for Business and Industry (I.D.)	3
	General Education (II.A.)	4
	General Education	3
	General Elective	3
		16

<u>5th Semester</u>		<u>Units</u>
ITEC 315	Data and Information Management	3
CIS 377	Information Assurance and Security	3
	ITEC Elective	3
	General Elective	3
	General Elective	3
		15

<u>6th Semester</u>		<u>Units</u>
ITEC 325	System Administration and Maintenance	3
CIS 350	Telecommunications	3
	ITEC Elective	3
	General Elective	3
	General Elective	3
		15

<u>7th Semester</u>		<u>Units</u>
ITEC 411	System Architecture and Integration	3
COSC 418	Ethics and Societal Concerns of Computer Scientists	3
	ITEC Elective	3
	General Elective	3
	General Elective	3
		15

<u>8th Semester</u>		<u>Units</u>
CIS 435	Human and Computer Interaction	3
ITEC 485	Information Technology Capstone	3
	ITEC Elective	3
	ITEC Elective	3
		12

	<u>Courses</u>	<u>Units</u>
General education	15	47
General electives	9	24-25
Information Technology	16	49
	40	120-121

**Core Curriculum Requirements
2011 - 2012**

Fundamentals				Ways of Knowing				Writing	Perspectives			
1	2	3	4	5	6	7	8	9	10	11	12	13
TU Sem	Eng Comp	Math	Creativity	Arts & Hum	Soc Bhw Sci	Bio & Phys Sci	Bio & Phys Sci	Adv Writ	Metro Persp	US as Nation	Global Persp	Diversity & Diff
TSEM 101	Engl 102 <i>ENGL 190</i>	ECON 205 MATH 105 MATH 106 MATH 109 COSC 225 MATH 111 MATH 115 MATH 119 MATH 205 MATH 211 MATH 231 <i>MATH 233</i> MATH 237 MATH 263 MATH 273 MATH 274 <i>MATH 283</i> <i>MATH 284</i>	ART 103 ART 113 ART 233 COSC 109 <i>COSC 225</i> ENGL 283 ENGL 311 ENGL 312 <i>ENGL 332</i> <i>HONR 225</i> MUSC 105 MUSC 116 THEA 101 THEA 142	ARAB 101 ARAB 201 ARAB 301 ARTH 105 ARTH 109 ARTH 207 ARTH 208 ARTH 221 ARTH 222 CHNS 101 CHNS 201 CHNS 301 COMM 131 <i>COMM 132</i> DANC 101 DANC 123 DFST 104 EMF 363 <i>ENGL 205</i> ENGL 221 ENGL 222 ENGL 243 ENGL 263 <i>ENGL 265</i> ENGL 290 FREN 101 FREN 201 FREN 301 GERM 101 GERM 201 GERM 301 GRK 103 HEBR 101 HEBR 103 HEBR 104 HEBR 201 HEBR 301 HIST 103 HIST 160 <i>HONR 235</i> ITAL 101 ITAL 201 ITAL 301 JPSN 101 JPSN 201 JPSN 301 LATN 101 LATN 201 LATN 301 MUSC 101 PHIL 101 PHIL 111 PHIL 221 PORT 101 PORT 201 RLST 201 RLST 202 RLST 211 RUSS 101 RUSS 201 SPAN 101 SPAN 201 SPAN 203 SPAN 301	ANTH 208 ECON 201 ECON 202 <i>ECON 203</i> <i>ECON 204</i> FMST 101 FMST 102 GERO 101 <i>HONR 237</i> POSC 101 POSC 102 PSYC 101 PSYC 102 SOCI 101 <i>SOCI 102</i>	ASTR 161 ASTR 162 BIOL 117 BIOL 201 BIOL 117 CHEM 104 CHEM 105 CHEM 106 CHEM 111 <i>CHEM 115</i> GEOG 101 GEOG 101 GEOG 121 GEOG 122 GEOG 123 PHSC 101 PHYS 131 PHYS 143 PHYS 202 PHYS 211 PHYS 212 PHYS 241 PHYS 242 <i>PHYS 251</i> <i>PHYS 252</i>	ASTR 161 ASTR 162 BIOL 105 BIOL 117 BIOL 201 CHEM 100 CHEM 104 CHEM 105 CHEM 106 CHEM 111 CHEM 106 CHEM 111 GEOG 101 GEOG 109 GEOG 121 GEOG 122 GEOG 123 HONR 227 PHSC 101 PHYS 100 PHYS 103 PHYS 131 PHYS 143 PHYS 202 PHYS 211 PHYS 212 PHYS 241 PHYS 242 <i>PHYS 251</i> <i>PHYS 252</i>	ANTH 401 EDUC 301 EMF 377 ENGL 310 ENGL 316 ENGL 317 ENVS 337 FMST 485 GEOG 383 HLTH 315 KNES 351 KNES 353 <i>KNES 354</i> KNES 417 MCOM 356 MCOM 357 MUSC 302 PHIL 460 SOCI 300 SPPA 417 WMST 333 WRIT 312	FMST 201 IDFA 202 METR 101 POSC 305 POSC 304	AMST 201 ANTH 209 ARTH 113 CLST 201 <i>CLST 202</i> CRMJ 254 ENGL 230 ENGL 231 HIST 145 HIST 146 HIST 148 HLTH 101 <i>HLTH 102</i> HLTH 207 <i>HLTH 217</i> <i>HONR 230</i> KNES 235 MUSC 111 POSC 103 POSC 207 POSC 209 PCOSC 212 POSC 343 SOCI 210 WMST 235	ANTH 210 ARAB 102 ARAB 202 ARAB 302 ARTH 107 CHNS 102 CHNS 202 CHNS 302 FREN 102 FREN 202 FREN 302 GEOG 102 GEOG 105 GEOG 109 <i>GEOG 110</i> <i>GEOG 112</i> GERM 102 GERM 202 GERM 302 GRK 104 HEBR 102 HEBR 202 HEBR 204 HEBR 302 HIST 110 HIST 111 HIST 117 HIST 121 HIST 122 <i>HONR 243</i> ITAL 102 ITAL 202 ITAL 302 JPNS 102 JPNS 202 JPNS 302 KNES 285 LATN 102 LATN 202 LATN 302 OCTH 205 PHIL 219 PORT 102 PORT 202 POSC 105 POSC 107 POSC 108 RLST 105 RLST 203 RLST 207 RLST 208 RUSS 102 RUSS 202 SPAN 102 SPAN 202 SPAN 204 SPAN 302 WMST 233	AFST 201 ARTH 108 DFST 101 EDUC 203 EMF 205 ENGL 233 ENGL 234 ENGL 235 ENGL 239 HLTH 220 <i>HONR 240</i> MUSC 205 NURS 416 PHIL 204 RLST 205 RLST 206 RLST 209 RLST 210 SOCI 241 SOCI 243 THEA 380 WMST 231 <i>WMST 232</i>

Rules: one course from each category

Constraints:

4 and 5 - courses in these categories are evaluated together; they must be in different disciplines
7 and 8 - students must select either two courses from different scientific disciplines or two sequenced courses within one discipline.

One course under Perspectives (10-14) must be taken in a discipline in the arts and humanities different from the discipline taken in requirement 5 and
One course under Perspectives must be taken in a discipline in the social and behavioral sciences different from the discipline taken in requirement 6.

