

DEPARTMENT OF COMPUTER AND INFORMATION SCIENCE

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The computer and information science department offers four undergraduate programs, a bachelor of science in information systems, a bachelor of science in computer science, a bachelor of science in information technology, and an associate of science in information technology. Each program enables the student to study computing in a setting that uses a variety of state-of-the-art computer equipment and technology.

The program in information systems prepares students for careers as application programmers/analysts in a business environment and for further graduate work in information systems. Business courses supplement a strong core of technical courses to enable students to design and implement business processing systems that require programming, databases, web development, networking, and client-server processing.

The program in computer science prepares students for careers as systems programmers in a scientific and/or engineering environment and for further graduate work in computer science. Mathematics and engineering courses supplement a strong core of computer science courses, enabling students to design and implement software that requires complicated computations, data structures and interfaces.

The program in information technology prepares students for careers in administering heterogeneous computer systems and networks. The curriculum consists of an integrated set of courses in networking, web development and administration, database development and administration, systems administration, and computer forensics.

Curriculum in Information Systems

Degree Completion Plan Beginning in Fall Semester							
Freshman				Sophomore			
Fall	Spring		Fall	Spring			
ENGL 1013 ¹	3	ENGL 1023 ¹	3	ENGL 2053	3	BUAD 2053	3
COMS 1403	3	COMS 2104	4	COMS 2203	3	COMS 2213	3
COMS 1411	1	COMS 2003	3	COMS 2703	3	COMS 2853	3
MATH 2243	3	Science with Lab ¹	4	ACCT 2003	3	ACCT 2013	3
Social Sciences ¹	6	ECON 2003	3	Physical Activity ¹	1	ECON 2013	3
				COMS 2903	3	Physical Activity ¹	1
				COMS 2700	0		
Total Hours	16	Total Hours	17	Total Hours	16	Total Hours	16
Junior				Senior			
Fall	Spring		Fall	Spring			
SPH 2173	3	MGMT 3003	3	Humanities ¹	3	Fine Arts ¹	3
COMS 4203	3	Science with Lab ¹	4	COMS 4033	3	COMS 4043	3
COMS 3903	3	COMS 4703	3	COMS 4133	3	COMS 4053	3
COMS 3513	3	COMS 3503	3	COMS 4303	3	COMS Elective ²	3
Social Sciences ¹	3	MKT 3043	3	Elective 3000-4000 level	3	Elective 3000-4000 level	3
		COMS 4700	0				
Total Hours	15	Total Hours	16	Total Hours	15	Total Hours	15

Curriculum in Information Systems

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore			
Spring	Fall	Spring	Fall	Spring	Fall
ENGL 1013 ¹	3 ENGL 1023 ¹	3 COMS 2003	3 BUAD 2053	3 COMS 2104	3 ACCT 2013
COMS 1403	3 COMS 2703	3 COMS 2853	3 COMS 3903	COMS 1411	3 ENGL 2053
MATH 2243	3 ECON 2003	3 ACCT 2003	3 Social Sciences ¹	Social Sciences ¹	3
Social Sciences ¹	3 COMS 2903	3 ECON 2013	3 Physical Activity ¹	Physical Activity ¹	1
	COMS 2700	0			
Total Hours	17 Total Hours	16 Total Hours	15 Total Hours	15 Total Hours	16
Junior		Senior			
Spring	Fall	Spring	Fall	Spring	Fall
Social Sciences ¹	3 MGMT 3003	3 COMS 4043	3 COMS 4303	SPH 2173	3
SPH 2173	3 COMS 4033	3 COMS 4203	3 Elective 3000-4000 level	COMS 3503	3
COMS 3503	3 Science with Lab ¹	4 MKT 3043	3 COMS Elective ²	Science with Lab ¹	3
Science with Lab ¹	4 COMS 4133	3 Elective 3000-4000 level	3 COMS 4053	COMS 4703	3
COMS 4703	3 COMS 3513	3 Humanities ¹	3 Fine Arts ¹	COMS 4700	0
COMS 4700	0			Total Hours	16 Total Hours
Total Hours	16 Total Hours	16 Total Hours	15 Total Hours	15 Total Hours	15

¹See appropriate alternatives or substitutions in "General Education Requirements" on page 81.

²1000-level courses may not be used to satisfy this requirement.

Curriculum in Computer Science

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore			
Fall	Spring	Fall	Spring	Fall	Spring
ENGL 1013 ¹	3 ENGL 1023 ¹	3 ENGL 2053	3 SPH 2173	COMS 1403	3
COMS 1403	3 COMS 2104	4 COMS 2203	3 COMS 2213	COMS 1411	3
COMS 1411	1 COMS 2003	3 COMS 2703	3 COMS 2223	BUAD 1003	3
BUAD 1003	3 Biological Science ¹	4 COMS 2903	3 ELEG 2133	Social Sciences ¹	3
Social Sciences ¹	6 Physical Activity ¹	1 COMS 2700	0 MATH 2924		4
		MATH 2914	4 ELEG 2131		1
Total Hours	16 Total Hours	15 Total Hours	16 Total Hours	16 Total Hours	17
Junior		Senior			
Fall	Spring	Fall	Spring	Fall	Spring
COMS 3213	3 COMS 3703	3 Social Sciences ¹	3 Fine Arts ¹	COMS 4203	3
COMS 4203	3 COMS 4163	3 COMS 4033	3 COMS 4043	MATH 3153	3
MATH 3153	3 COMS 4703	3 COMS 4103	3 COMS 4403	Social Sciences ¹	3
Social Sciences ¹	3 Humanities ¹	3 COMS 3000-4000 level	3 Technical Elective ²		3
PHYS 2114	4 PHYS 2124	4 MATH 4003	3 Elective 3000-4000 level		3
	COMS 4700	0 Physical Activity ¹	1		
Total Hours	16 Total Hours	16 Total Hours	16 Total Hours	16 Total Hours	15

Curriculum in Computer Science

Degree Completion Plan Beginning in Spring Semester

Freshman		Sophomore			
Spring	Fall	Spring	Fall	Spring	Fall
ENGL 1013 ¹	3 ENGL 1023 ¹	3 ENGL 2053	3 SPH 2173	3 COMS 2104	3 COMS 4203
COMS 1403	3 COMS 2703	3 COMS 2223	3 Fine Arts ¹	3 COMS 1411	3 COMS 3213
COMS 1411	1 ELEG 2133	3 COMS 2003	3 COMS 3213	3 COMS 1411	3 COMS 3213
Biological Science ¹	4 ELEG 2131	1 MATH 2914	4 MATH 2924	4 COMS 2903	3
	COMS 2903	3		COMS 2700	0
Total Hours	15	Total Hours	16	Total Hours	16
Junior		Senior			
Spring	Fall	Spring	Fall	Spring	Fall
COMS 3703	3 Social Sciences	3 Social Sciences	3 BUAD 1003	3 COMS 4163	3 Elective 3000-4000 level
COMS 4163	3 COMS 4033	3 COMS 4043	3 COMS 4403	3 COMS 4703	3 COMS Elective 3000-4000 level
Social Sciences ¹	6 MATH 4003	3 Technical Elective ²	3 MATH 3153	3 COMS 4703	3 MATH 3153
COMS 4700	0 PHYS 2114	4 PHYS 2124	4 Humanities ¹	3 COMS 4700	3 Humanities ¹
Physical Activity ¹	1		1 Physical Activity ¹	1 Physical Activity ¹	1
Total Hours	16	Total Hours	16	Total Hours	16

¹See appropriate alternatives or substitutions in "General Education Requirements" on page 81.

²Technical electives must be taken from upper-level courses in Engineering, Physics, Chemistry, Math, or Astronomy.

Curriculum in Information Technology

Degree Completion Plan Beginning in Fall Semester

Freshman		Sophomore			
Fall	Spring	Fall	Spring	Fall	Spring
COMS 1403	3 COMS 1333	3 COMS 2203	3 COMS 2003	3 COMS 1411	3 COMS 2713
COMS 1411	1 COMS 2104	4 COMS 2333	3 COMS 2733	3 MATH 2243	3 COMS 2733
MATH 2243	3 Science with Lab ¹	4 COMS 2700	0 COMS 2053	3 Social Sciences ^{1,3}	3 BUAD 2053
Social Sciences ^{1,3}	6 Social Sciences ^{1,3}	3 COMS 2703	3 Elective	3 ENGL 1013 ³	3 Elective
ENGL 1013 ³	3 ENGL 1023 ³	3 ENGL 2053	3 Physical Activity ³	3 COMS 2903	3 Physical Activity ³
Total Hours	16	Total Hours	17	Total Hours	15
Junior		Senior			
Fall	Spring	Fall	Spring	Fall	Spring
COMS 3903	3 COMS (3000-4000 level) ²	3 COMS (3000-4000 level) ²	3 COMS 3053	3 COMS 4203	3 COMS 4043
COMS 4203	3 COMS 3523	3 COMS 4033	3 COMS 4063	3 COMS 4313	3 COMS 4063
COMS 4313	3 COMS 4700	0 COMS 4213	3 COMS 4700	3 SPH 2173	0 Elective (3000-4000) ^{2,3}
SPH 2173	3 COMS 4703	3 COMS 4700	0 Elective (3000-4000) ^{2,3}	3 Humanities ³	3 Physical Activity ³
Humanities ³	3 Science with Lab ³	4 COMS 4713	3 Physical Activity ³	3 Elective (3000-4000 level) ²	3 Fine Arts ³
	3 Elective (3000-4000 level) ²	3 Social Sciences ^{1,3}	3 Fine Arts ³	Total Hours	16
Total Hours	15	Total Hours	16	Total Hours	15

Curriculum in Information Technology

Degree Completion Plan Beginning in Spring Semester

Freshman				Sophomore			
Spring	Fall		Spring	Fall			
COMS 1403	3	COMS 2003	3	COMS1333	3	COMS 2333	3
COMS 1411	1	COMS 2104	4	COMS 2203	3	COMS 2903	3
MATH 2243	3	COMS 2700	0	COMS 2713	3	ENGL 2053	3
Social Sciences ^{1,3}	3	COMS 2703	3	COMS 2733	3	BUAD 2053	3
Science with Lab ³	4	Social Sciences ^{1,3}	3	SPH 2173	3	Science with Lab ³	4
ENGL 1013 ³	3	ENGL 1023 ³	3				
Total Hours	17	Total Hours	16	Total Hours	15	Total Hours	16
Junior				Senior			
Spring	Fall		Spring	Fall			
COMS 3523	3	COMS 3903	3	COMS (3000-4000) ²	3	COMS Elective (3000-4000) ²	3
COMS 4063	3	COMS 4033	3	COMS 3053	3	COMS 4213	3
COMS 4700	0	COMS 4203	3	COMS 4043	3	COMS 4313	3
COMS 4703	3	COMS 4700	0	Elective (3000-4000) ²	3	Humanities ³	3
Social Sciences ^{1,3}	3	COMS 4713	3	Fine Arts ³	3	Elective (3000-4000) ²	3
Elective	3	Social Sciences ^{1,3}	3			Physical Activity	1
		Physical Activity ³	1				
Total Hours	15	Total Hours	16	Total Hours	15	Total Hours	16

¹The following course is required: ECON 2003.

²One elective must be in the area of networking.

³See appropriate alternatives or substitutions in "General Education Requirements" on page 81.

The Associate of Science in Information Technology program enables students to develop skills in the areas of web processing, databases, networking, programming, and various operating systems. These skills enable students to seek positions within the information technology industry.

Associate of Science in Information Technology

Curriculum in Information Technology Associate of Science Degree

Suggested Sequence of Courses

Freshman			Sophomore		
Fall	Spring		Fall	Spring	
COMS 1403	3	COMS 1333	3	COMS 2203	3
COMS 1411	1	COMS 2104	4	COMS 2703	3
COMS 2003	3	COMS 2233	3	COMS Elective ³	3
MATH 1113 ²	3	ENGL 1023 ¹	3	PHSC 1013	3
ENGL 1013 ¹	3	Social Sciences ¹	3	PHSC 1021	1
Social Sciences ¹	3		3	ENGL 2053	3
Total Hours	16	Total Hours	16	Total Hours	15

¹See appropriate alternatives or substitutions in "General Education Requirements" on page 81.

²The mathematics requirement may be fulfilled by taking MATH 1113 or any higher level mathematics course.

³1000-level courses may not be used to satisfy this requirement.