

COMPUTER SCIENCE COURSES—64 Hours

Computer Science Core (48 Hours)

- _____ CS 201 Object-Oriented Programming
- _____ CS 215 Discrete Structures for Computer Science
- _____ ENGR 241 Digital Logic
- _____ CS 301 Object-Oriented Design and Methodology
- _____ CS 311 Algorithm Design
- _____ CS 321 Architecture of Digital Computers
- _____ ENGR 347 Microcomputer Engineering
- _____ CS 365 Operating Systems
- _____ CIS 367 Intro to Data Communication
- _____ CIS 375 Systems Analysis & Design
- _____ CS/CIS 377 Database Systems
- _____ CS 379 Programming Languages
- _____ CS 411 Network Management & Security
- _____ CS 461 Artificial Intelligence
- _____ CS 478 Software Development
- _____ CS 483 Senior S/E Project I

Computer Science Professional Courses: (12 hours)

- _____ CIS 305 Management Information Systems
- _____ Legacy Language
- _____ Directed Elective
- _____ Directed Elective

Total Computer Science (60 Hours)

College of Business Courses (4 hours)

- _____ ASBE 231^a Business Communications
- _____ ASBE 401 Bus. Career Plan. & Prof. Development

Total College of Business and Computer Science Courses (64 hours)

UNIVERSITY CORE—60 Hours

A. COGNITIVE DEVELOPMENT (12-13 hours)

- A1. Composition/Speech (9 hours)
- _____ ENG 101 Freshman Composition (3 hours)
- _____ ENG 201 Rhet & Comp II: Argument (3 hours)
- _____ CMST 101, 107 or THTR251 (3 hours)
- A2. Mathematics (3-4 hours)
- _____ MATH 215 or 230

B. INDIVIDUAL DEVELOPMENT (8 hours)

- B1. Ethics (3 hours)
- B2. The Arts (3 hours)
- B3. Health/Fitness (2 hours)
- _____ Phys Ed Activity (1 hour)
- _____ Phys Ed Health (1 hour)

C. CULTURAL AND NATURAL AWARENESS (26-27 hours)

- C1. History (3 hours)
- C2. Individual Development/Social Science (6 hours)
- _____
- _____
- C3. Science (8-9 hours) at least one with a lab
- _____
- _____
- C4. Western Culture (6 hours)
- _____
- _____
- C5. Global Communities (3 hours)
- _____
- _____

D. Synthesis (3 hours)

CS 483 meets core requirement D.

Additional courses to meet 124 hour minimum.

- _____ General Electives
- _____
- _____
- _____

Total hours must equal 124 with minimum of at least 2.2 in the first 62 hours of course work to enroll in upper division Computer Science courses. CS courses and overall must be 2.0. See reverse side for footnotes ^a.

Fall Semester			Hours
CMST 101	Intro to Public Speaking		3
CS 201	Object-Oriented Programming		3
ENG 101	English		3
MATH 115	Pre-Calculus		3
	Science		<u>4</u>
			16

Fall Semester			Hours
CS 311	Algorithm Design and Analysis		3
	ID/Social Science		3
ENG 201	Rhet & Comp II		3
	P. E. Activity		1
	Science		4
	USI Core		<u>3</u>
			17

Fall Semester			Hours
CIS 305	Management Info Systems		3
CS 365	Operating Systems		3
CS 379	Programming Languages		3
	USI Core		<u>6</u>
			15

Fall Semester			Hours
ASBE 401	Bus. Career Plan		1
CS 478	Software Development		3
	CS Directed Elective		3
	General Elective		3
	Legacy Language		3
	USI Core		<u>3</u>
			16

FRESHMAN YEAR

Spring Semester			Hours
CS 215	Discrete Structures for CS		3
CS 301	OO Design and Methodology		3
ENGR 241	Digital Logic		3
MATH 230	Calculus I		4
	USI Core		<u>3</u>
			16

SOPHOMORE YEAR

Spring Semester			Hours
ASBE 231 ^a	Business Communications		3
CS 321	Architecture-Digital Computers		3
	ID/Social Science		3
ENGR 347	Microcomputer Engineering		3
PSY 201	Intro to Psychology		3
	P. E. Health		<u>1</u>
			16

JUNIOR YEAR

Spring Semester			Hours
CIS 367	Data Communications		3
CIS 375	Systems Anal & Design		3
CS/CIS 377	Database Systems		3
CS 411	Network Mgmt & Security		3
	USI Core		<u>3</u>
			15

SENIOR YEAR

Spring Semester			Hours
CS 461	Artificial Intelligence		3
CS 483	Senior Software Project		3
	CS Directed Elective		3
	General Electives		<u>6</u>
			15

^a Or Eng 210, Technical Report Writing

CS Directed Electives

CIS 355 E-Business
ENGR 447 Microprocessor Interfacing
CIS 451 Organizational Support Systems
CIS 476 Web Development
CIS 487 Special Topics
CS 499 Projects in Computer Science
2nd Programming Language I CS 259 or 288
2nd Programming Language II CS 359 or 388

Relevant Math Courses

MA 330 Calculus II
MA 335 Calculus III
MA 413 Linear Algebra (15 hrs MA or consent)
MA 437 Numerical Analysis (MA 253, 230, 330, & 335)

Programming Languages

CS 201	JAVA I	CS 301	JAVA II
CS 259	C#* I	CS 359	C#* II
CS 288	VB* I	CS 388	VB* II
CS 421	Study of Legacy Languages*		
	C++*	PERL	
	XML	Python	

*Legacy Language – Any language whose widespread use requires its knowledge for work in present business environments

Prerequisites

ASBE 231 – ENG 201, CIS 151 and CMST 101
Note: CS Majors do NOT need CIS151
ASBE 401 – ASBE 231, Senior standing
CS 301 – CS201
CIS 305 – ECON 208 & 209 and junior standing
Note: CS Majors do NOT need ECON 208 or ECON 209
CS 311 – CS 201, CS 215 and CS 301
CS 321 – CS 201, CS 215, CS 301 and ENGR347
CS 365 – CS 201, CS215, CS 301 and CS 311
CIS 367 – CIS 305
CIS 375 – CIS 305
CS 377 – CIS 305
CS 379 – CS 201, CS215, CS 301 and CS 311
CS 411 – CS 201, CS 301 and CS 365.
CS 461 – CS 201, CS 215 and CS 301
CS 478 – CS 201, CS 215 and CS 301
CS 483 – CS 201, CS 301, CIS 305, CS 365, CIS 367, CIS 375
and CS 377, Senior standing
ENGR 347 – ENGR 241

Individual Development

A1 ENG101 AND 201 AND (CMST101, 107 OR THTR251)
A2 MATH115 OR MATH230
B1 ENG 222, HA 356, PHIL 200, 201, 312 OR 363
B2 ART201, 353, 354, CMST203, MUS202, THTR101,
ENG105, 255, 265, 285, 286, 302, 330, 382 OR 383
B3 PED186, 281, BIOL176, NUTR376, OR OT310 AND
One PED Activities Course (100 level) OR PED295
C1 HIST101, 102, 111, 112, 130 OR 140
C2 ANTH101, 261, ECON175, 208, 209, EDUC302, ENG330,
GNDR111, POLS101, 102, PSY201, SOC121, 231, 251 OR 261
C3 ASTR201, BIO105, 112, 114, 121 AND 122L, 133, 141, 151, 152,
176, 208, 251, 282, 285, CHEM 103 OR 107L, 141,175, 261, 262,
GEOG112, 215, GEOL101, 115, 131, 132, 151, 161, 162, 234,
MET321, PHYS101, 175, 176, 205, 206, 207, 208
C4 HUM211, 221, 231, 241, 212, 222, 232, 242, OR
French, German, Latin, Spanish 203 AND 204
C5 ANTH251, 255, 262, ART253, BIOL251, CMST317, ECON241,
ENG231, 386, FL102, GEOG330, HIST365, HP236, 492,
INST213, 389, POLS271, SOCW392
D CS483 meets the core requirement D as part of the 50 hour core