

COMPUTER SCIENCE COURSES—64 Hours

Computer Science Core (48 Hours)

_____	_____	CS 258	Intro to Object-Oriented Programming using C#
_____	_____	CS 215	Discrete Structures for Computer Science
_____	_____	ENGR 241	Digital Logic
_____	_____	CS 358	Intermediate Object-Oriented Programming using C#
_____	_____	CS 311	Algorithm Design (F)
_____	_____	CS 321	Architecture of Digital Computers (Sp)
_____	_____	ENGR 347	Microcomputer Engineering
_____	_____	CS 365	Operating Systems (F)
_____	_____	CIS 367	Intro to Data Communication
_____	_____	CIS 375	Systems Analysis & Design
_____	_____	CS/CIS 377	Intro to Database Concepts
_____	_____	CS 379	Programming Languages (F)
_____	_____	CS 411	Network Management & Security (Sp)
_____	_____	CS 461	Artificial Intelligence (Sp)
_____	_____	CS 478	Software Development (F)
_____	_____	CS 483	Senior S/E Project I (Sp)

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)

_____	_____	BCOM 231	Business Communications or ENG 210 Technical Writing
_____	_____	BCOM 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.

<u>Fall Semester</u>	<u>Hours</u>
CMST 101 Intro to Public Speaking or CMST 107 or THTR 251	3
CS 258 Intro OO Programming in C#	3
ENG 101 English	3
MATH 115 Pre-Calculus Science	3 <u>4</u>
	16

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

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

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

FRESHMAN YEAR

<u>Spring Semester</u>	<u>Hours</u>
CS 215 Discrete Structures for CS	3
CS 358 Intermed OO Programming in C#	3
ENGR 241 Digital Logic	3
MATH 230 Calculus I USI Core	4 <u>3</u>
	16

SOPHOMORE YEAR

<u>Spring Semester</u>	<u>Hours</u>
BCOM 231 Business Communications or ENG 210 Technical Writing	3
CS 321 Architecture-Digital Computers ID/Social Science	3 3
ENGR 347 Microcomputer Engineering	3
PSY 201 Intro to Psychology P. E. Health	3 <u>1</u>
	16

JUNIOR YEAR

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

SENIOR YEAR

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

CS Directed Electives

CIS 355 E-Business (CIS 261)
ENGR 447 Microprocessor Interfacing (ENGR 347)
CIS 276 Introduction to Enterprise Web Development
CIS 376 Programming for Enterprise Web Development (CIS 276)
CIS 476 Advanced Enterprise Web Development (CS358, CIS 376, CIS 377)
CIS 335 Special Topics in Information Systems (CIS 305)
CIS 345 Information Systems Security & Risk Management (CIS 305)
CIS 385 Enterprise Resource Planning
CIS 451 Organizational Support Systems (CIS 305)
CIS 487 Special Topics (CIS 305)
CS 458 Advanced Programming using C# (CS 358)
CS 499 Projects in Computer Science
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)

Legacy Languages

CS 201 Java I CS 301 Java II (CS 201 or 258)
CS 421 Study of Legacy Languages* (CS 301 or CS 358 or CS 388)

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

Prerequisites

BCOM 231 – ENG 201, CIS 151 and CMST 101
Note: CS Majors do NOT need CIS151
BCOM 401 – BCOM 231, Senior standing
CS 358 – CS 258
CIS 305 – ECON 208 & 209 and junior standing
Note: CS Majors do NOT need ECON 208 or ECON 209
CS 311 – CS 258, CS 215 and CS 358
CS 321 – CS 258, CS 215, CS 358 and ENGR347
CS 365 – CS 258, CS215, CS 358 and CS 311

Prerequisites Continued

CIS 367 – CIS 305
CIS 375 – CIS 305
CS 377 – CIS 305
CS 379 – CS 258, CS215, CS 358 and CS 311
CS 411 – CS 258, CS 358 and CS 365.
CS 461 – CS 258, CS 215 and CS 358
CS 478 – CS 258, CS 215 and CS 358
CS 483 – CS 258, CS 358, CIS 305, CS 365, CIS 367, CIS 375 and CS 377, Senior standing
ENGR 347 – ENGR 241

Individual Development

A1 ENG 101 AND 201 AND (CMST 101, 107 OR THTR 251)
A2 MATH 215 OR MATH 230
B1 ENG 222, HA 356, PHIL 200, 201, 312 OR 363
B2 ART 201, 353, 354, CMST 203, MUS 202, THTR 101, ENG 105, 255, 265, 285, 286, 302, 330, 382 OR 383
B3 PED 186 OR 281 OR 287 OR BIOL 176 OR NUTR 376 OR OT 310 AND One PED Activities Course (100 level) OR PED 295
C1 HIST 101, 102, 111, 112, 130 OR 140, EDUC 173
C2 ANTH 101, 121, ECON 175, 208, 209, EDUC 302, ENG 330, GNDR 111, POLS 101, 102, PSY 201, SOC 121, 231, 251 OR 261
C3 ANTH 131, ASTR 201(L), BIOL 105(L), 112(L), 114(L), 121, 122(L), 133(L), 141(L), 151(L), 152(L), 176, 208(L), 251, 282, 285, CHEM 103 OR 107(L), 141(L), 175(L), 261(L), 262(L), GEOG 112, 215, GEOL 101, 115, 131, 132, 151(L), 161(L), 162(L), 234, MET321, PHYS 101, 175(L), 176(L), 205(L), 206(L), 207, 208
C4 HUM 211, 221, 231, 241, 212, 222, 232, 242, OR French, German, Latin, Spanish 203 AND 204
C5 ANTH 111, 251, 255, 262, ART 253, BIOL 251, CMST 317, ECON 241, ENG 231, 386, Foreign Language 102, GEOG 330, HIST 365, HP 236, 492, INST 213, 389, PSY 251, POLS 271, SOCW 392
D CS 483 meets the core requirement D as part of the 50 hour core