

**UNH MANCHESTER
BACHELOR OF SCIENCE
COMPUTER INFORMATION SYSTEMS
(128 Credits)**

**For Students Entering
September 2016**

Name: _____ Student ID: _____ Advisor _____

DISCOVERY PROGRAM

Discovery Foundations	Course Title/#	Source	Date	Cr.	Grade
Writing (WS) Must be taken within the first 32 credits					
Quantitative Reasoning (QR) Must be taken within the first 32 credits.					
Inquiry Requirement One Inquiry course: (INQ 444 or INQ attribute) _____ Must be taken within the first 25 credits.					

Discovery Categories					
Biological Science* (BS)					
Physical Science* (PS)					
Environment, Technology and Society (ETS)					
Historical Perspectives (HP)					
World Culture (WC)					
Fine and Performing Arts (FPA)					
Social Science (SS)					
Humanities (HUMA)					

Writing Intensive Requirement: Course Title/#

ENGL 401 _____ All undergraduates are required to complete four "writing- intensive" courses which must include English 401 (First-Year Writing) and three additional "writing- intensive" courses, one of which must be in the student's major and one must be at the 600-level or above. A student may take a 600/700 level WI course in the major but must still have a total of four WI courses.

WI course in major _____

600/700-level WI course _____

other WI course _____

***One of the two sciences (BS, PS) must have a lab.**

Computer Information Systems Major Requirements

Students must complete 21 courses in the major, including the Internship/Career Planning Seminar (1 cr). Up to three courses may also be used to fill Discovery Requirements as follows: MATH 420/424/425 (QR), COMP 405 (ETS), and COMP 560 (HUMA). Courses applied to the major must be completed with a minimum grade of C- and a cumulative GPA in the major of 2.0.

For transfer students: a maximum of 36 credits may be transferred to satisfy the major requirements (not counting those courses used to satisfy Discovery requirements as noted above). In addition, a minimum of 28 credits in COMP courses must be completed at UNH Manchester.

Math Requirements

Course #	Title	Source	Date	Cr.	Grade
MATH 420/MATH 424/MATH 425 (may be used to fill QR requirement) OR COMP 500					

Introductory Core – 4 courses (16 credits)

Course #	Course Title	Source	Date	Cr.	Grade
COMP 405 (may be used to fill the ETS requirement)	Introduction to Internet and Web Authoring				
COMP 425	Computing Fundamentals				
COMP 430	Systems Fundamentals				
COMP 530	Machine and Network Architecture				

Intermediate Core – 4 courses (16 credits)

COMP 525	Data Structures Fundamentals				
COMP 520	Database Design and Development				
COMP 550	Networking Concepts				
COMP 560 (may be used to fill the HUMA requirement)	Ethics and Law in the Digital Age				

Integrative and Professional Experience – 5 courses (17 credits)

COMP 715	Information Security				
COMP 730	Object-Oriented Software Development				
UMST 599	Internship/Career Planning Seminar (1 cr)				
COMP 690	Internship Experience				
COMP 790	Capstone Project				

CIS Electives – 3 courses (12 credits) not already applied to the major. No more than two 400-level COMP or CS courses may be used.

Candidate CIS elective courses are: COMP 415 (may be used to fulfill ETS requirement), COMP 490, COMP 515, COMP 625, COMP 630, COMP 640, COMP 650, COMP 705, COMP 720, COMP 725, COMP 780, COMP 795, CS 410. Other CS and ET courses by permission.

COMP					
COMP					
COMP					

Concentration - 4 courses (16 credits)

Majors can creatively design a concentration that meets their academic and professional goals and career plans. Four courses can be selected across a wide university curriculum, to reflect majors’ interest in a liberal arts, scientific, engineering, interdisciplinary, or professional area of study. **No more than 8 credits** may be used to fill a concentration and a Discovery requirement. Students must complete a *CIS Self-Designed Concentration form*, get approval from a faculty advisor, and submit it to the Academic Counseling office prior to graduation.

Course #	Course Title	Source	Date	Cr.	Grade

OR

Minor – 5 courses (20 credits)

No more than 8 credits used to satisfy major requirements may be used for the minor. Students pursuing a minor must complete the *Certification of Minor* form and submit it to the Academic Counseling Office prior to graduation. In addition, some minors (for example, Business and Communication Arts) require that students submit an *Intent to Minor* form early in their program.

Course #	Course Title	Source	Date	Cr.	Grade

Electives to total 128 credits

Course #	Course Title	Source	Date	Cr.	Grade