

## Computer Information Systems Public Pathways Program

We have partnered with Manchester Community College to offer a Pathways Program that allows you to smoothly transition to UNH Manchester. This curriculum map shows you the MCC course sequence you should follow for seamless transfer into our B.S. in Computer Information Systems degree program.

Students must take these courses at MCC...	To fulfill these UNH degree requirements...
CIS 105 – Introduction to Computer Science	COMP 430 – System Fundamentals
ENGL 101 – College Composition I	Discovery writing skills course
MATH 155 – College Algebra with Trigonometry	No transfer credit
FYE 100 – First Year Cornerstone	No transfer credit
CIS 107 – Introduction to Android Apps Development 1 <b>or</b> CIS 108 – Introduction to Windows Apps Development 1	Elective credit
CIS 113 – Database Design & Management Using SQL 2	Elective credit
MATH 171 – Pre-Calculus	Elective credit
ENGL 113 – Introduction to Public Speaking	Elective credit
CIS 118, 122, 148, or 158 – Programming Language elective 3	Elective credit
Discovery-approved social science course	Discovery social science course
CIS 126 – Introduction to Python 4	Elective credit
CIS 210 – Data Structures and Elementary Algorithms 4	COMP 525 – Data Structures Fundamentals
MATH 170 – Discrete Mathematics	Discovery quantitative reasoning
ENGL 206 – Professional Communication	Elective credit
CIS 233 - Oracle® Database Administration I 2	COMP 520 – Database Design and Development
CIS 124 – Web Programming 1	COMP 405 – Introduction to Internet and Web Authoring
CIS 274 – XML Programming I	Elective credit
CIS 291 – Capstone Senior Seminar	Elective credit
PHYS 210 – University Physics I	Discovery physical science course
CIS 220 – Object-Oriented Programming 3	COMP 425 – Computing Fundamentals
Discovery-approved biological science course	Discovery biological science/DLAB course

**Note:** See page 3 for information about UNH's Discovery Program courses.

1. Major credit when paired with CIS 124 for COMP 405. Students must earn a C or better in both CIS 107 or CIS 108 and CIS 124 to earn credit for COMP 405.
2. Major credit when paired with CIS 233 for COMP 520. Students must earn a C or better in both CIS 113 and CIS 233 to earn credit for COMP 520.
3. Major credit when paired with CIS 220 for COMP 425. Students must earn a C or better in both CIS 118, 122, 148 or 158 and CIS 220 to earn credit for COMP 425.
4. Major credit when paired with CIS 210 for COMP 525. Students must earn a C or better in both CIS 126 and CIS 210 to earn credit for COMP 525.

*Course titles, names and/or sequencing are subject to change.*

**If you are enrolled in the NH Dual Admission Program and/or plan to finish your associate degree at MCC, complete the following requirements at UNH Manchester to receive your bachelor's degree.**

#### **Major Course Requirements:**

COMP 530 – Machine and Network Architecture

COMP 550 – Networking Concepts

COMP 560 – Ethics and Law in the Digital Age (also fulfills Discovery humanities course)

COMP 730 – Object-Oriented Software Development

COMP 715 – Information Security

COMP 690 – Internship Experience (4 credits)

COMP 790 – Capstone Project

UMST 582 – Internship and Career Planning Seminar (1 credit)

Three major elective courses

#### **Discovery Program\* Course Requirements:**

Discovery environment, technology and society course

Discovery historical perspectives course

Discovery world cultures course

Discovery fine and performing arts course

#### **University Degree Requirements:**

Elective courses to fill remaining credits required for bachelor's degree (128 total)

University writing requirement\*\*

\* See page 3 for information about UNH's Discovery program.

\*\* Bachelor degree candidates are required to complete four writing-intensive courses, which must include: English 401 – First Year Writing (or equivalent transfer English composition course) and three additional writing-intensive courses, one in the student's major and one at the 600-level or above.



An advisor at UNH Manchester will provide you with the best possible guidance for course selections each term.

#### **Please also note:**

- UNH Manchester accepts a maximum of 72 credits in transfer from 2-year institutions. Only courses completed with a grade of C or better will be accepted as transfer credits.
- Students must earn a minimum overall grade point average of 2.50 at MCC to be eligible for dual enrollment at UNH Manchester.

*Course titles, names and/or sequencing are subject to change.*

## The Manchester Community College courses\* listed below fulfill UNH Manchester's Discovery Program course requirements:

### Writing Skills

ENGL 110M – College Composition I

### Quantitative Reasoning

CIS 118M – Visual Basic Net Programming  
CIS 148M – Java Programming  
CIS 158M – C# Programming  
MATH 170M – Discrete Mathematics  
MATH 200M – Finite Math  
MATH 202M – Probability & Statistics  
MATH 204M – Calculus I

### Biological Science

BIOL 106M – Human Body  
BIOL 150M – Nutrition

### Biological Science/DLAB

BIOL 101M – General Concepts in Biology  
BIOL 102M – Introduction to Botany  
BIOL 107M – Human Body Lab  
BIOL 108M – College Biology I  
BIOL 109M – College Biology II  
BIOL 110M – Human Anatomy & Physiology I  
BIOL 120M – Human Anatomy & Physiology II  
BIOL 151M – Nutrition Lab  
BIOL 201M – Principles of Genetics

### Physical Science

PHYS 105M – Astronomy

### Physical Science/DLAB

CHEM 115M – General Chemistry I  
CHEM 116M – General Chemistry II  
ESCI 110M – Earth Science  
PHYS 110M – Physical Science I  
PHYS 120M – Physical Science II  
PHYS 135M – College Physics I

PHYS 136M – College Physics II  
PHYS 210M – University Physics I  
PHSY 220M – University Physics II

### Environment, Technology & Society

ENVS 115M – Current Issues in the Environment  
ENVS 125M – Introduction to Environmental Science

### Historical Perspectives

HIST 120M – Western Civ. through 1500  
HIST 130M – Western Civ. 1500 to Present  
HIST 202M – US History to 1870  
HIST 204M – US History 1870 to Present  
HIST 205M – History of Russia

### World Culture

ANTH 101M – Intro to Anthropology  
HIST 210M – History of China  
HIST 211M – Modern Middle Eastern History

### Fine and Performing Arts

ARTS 117M – Art History I  
ARTS 123M – Drawing I  
ARTS 130M – Intro to Art  
ARTS 217M – Art History II  
ENGL 202M – Intro to Drama  
HUMA 105M – Intro to Music  
HUMA 106M – History of American Popular Music

### Social Science

ANTH 102M – Intro to Archeology  
BUS 120M – Intro to Communications Media  
ECON 134M – Macroeconomics  
ECON 135M – Microeconomics

GEOG 110M – Geography  
POLS 110M – American Government  
POLS 210M – Intro to Political Science  
PSYC 110M – Intro to Psychology  
PSYC 210M – Human Growth & Development  
SOC 109M – Contemporary Social Problems  
SOC 110M – Sociology  
SOC 250M – Multiculturalism

### Humanities

ENGL 200M – Topics in Literature  
ENGL 201M – Survey of Poetry  
ENGL 204M – Children's Literature  
ENGL 207M – Intro to Literary Analysis  
ENGL 218M – Short Story  
ENGL 223M – British Literature I  
ENGL 224M – British Literature II  
ENGL 225M – Shakespeare  
ENGL 230M – American Literature I  
ENGL 235M – American Literature II  
HIST 215M – World Religions  
HUMA 126M – Intro to Film  
HUMA 200M – Film & American Culture  
HUMA 220M – Love in the Western Tradition  
PHIL 110M – Intro to Philosophy  
PHIL 240M – Ethics

### Writing Intensive

ENGL 110M – College Composition I  
ENGL 120M – College Composition II  
ENGL 203M – Intro to Journalism  
ENGL 213M – Creative Writing  
ENGL 214M – Creative Nonfiction



### UNH Manchester Bachelor Degree Requirements

To graduate from UNH, students must fulfill course requirements in the following areas: **major** courses, University **Discovery** Program courses and **electives**, totaling 128 credits.

### Discovery Program Courses

UNH's Discovery Program builds each student's foundation in general education. To fulfill the Discovery Program, students must take the following courses: one inquiry course<sup>1</sup> (or INQ attribute course); one course in writing skills; one course in quantitative reasoning; as well as one 400- to 600-level course from each of the following Discovery Program categories: Biological Science (BS)<sup>2</sup>; Physical Science (PS)<sup>2</sup>; Environment, Technology and Society (ETS); Fine and Performing Arts (FPA); Historical Perspectives (HP); Humanities (HUMA); Social Science (SS) and World Cultures (WC)<sup>3</sup>

1. The Inquiry requirement shall be waived for students with 26 or more transfer credits.
2. One of these two courses must have a lab component.
3. Also may be satisfied by approved study abroad programs.