

## Computer Information Systems Public Pathways Program

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

Students must take these courses at WMCC...	To fulfill these UNH degree requirements...
ENGL 120 – College Composition	Discovery writing skills
IST 113 – IT Essentials	Elective credit
IST 120 – Web Design I	COMP 405 – Introduction to Internet and Web Authoring
IST 125 – Introduction to Programming	Major concentration course
IST 213 – Computer Networking I	Major concentration course
IST 114 – Fundamentals of Unix 1	Elective credit (major credit when paired with IST 230 for COMP 530)
IST 219 – Computer Networking II	COMP 550 – Networking Concepts
ENGL 211 – Technical Writing	Elective credit
PHYS 113 – Electricity and Electronics	Discovery physical science course
MATH 180 – Pre-Calculus	Elective credit
IST 115 – Object Oriented Programming with JAVA	COMP 425 – Computing Fundamentals
IST 232 – Computer Security	Major concentration course
IST 234 – Computer Networking III	Major concentration course
COMP 105 – Introduction to Database Management 2	Elective credit (major credit when paired with IST 235 for COMP 520)
Discovery-approved fine and performing arts	Discovery fine and performing arts course
MATH 215 – Calculus I	Discovery quantitative reasoning course
IST 230 – Network Servers and Security1	COMP 530 – Machine and Network Architecture
IST 235 – SQL Databases 2	COMP 520 – Database Design and Development
IST 244 – Computer Networking IV	Major concentration course
HUMA 120 – Environmental Issues	Discovery environment, technology and society course
Discovery-approved social science	Discovery social science course

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

1. Students must earn a C or better in IST 114 and 230 to earn credit for COMP 530.
2. Students must earn a C or better in both COMP 105 and IST 235 to earn credit for COMP 520.

*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 WMCC, complete the following requirements at UNH Manchester to receive your bachelor's degree.**

**Major Course Requirements:**

COMP 430 – Systems Fundamentals

COMP 525 – Data Structures Fundamentals

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

COMP 715 – Information Security

COMP 730 – Object-oriented Software Development

COMP 685 – Professional Development Seminar (1 credit)

COMP 690 – Internship Experience (4 credits)

COMP 790 – Capstone Project

Three major elective courses

**Discovery Program\* Course Requirements:**

Discovery biological science course

Discovery historical perspectives course

Discovery world cultures course

**University Degree Requirements:**

Elective courses to fill remainder of 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 WMCC to be eligible for dual enrollment at UNH Manchester.

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

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

### Writing Skills

ENGL 120W – College Composition

### Quantitative Reasoning

IST 125W – Introduction to Programming

MATH 214W – Statistics

MATH 215W – Calculus I

MATH 220W – Math in Our World

### Biological Science/DLAB

BIOL 111W – Biology

BIOL 114W – Human Anatomy and Physiology I

BIOL 115W – Human Anatomy and Physiology II

BIOL 120W – Human Biology

BIOL 211W – Microbiology

### Physical Science

PHYS 111W – Survey of Physical Science

### Physical Science/DLAB

CHEM 111W – Chemistry

GEOL 111W – Physical Geology

GEOL 112W – Geology and Soils

PHYS 112W – Physics I

PHYS 113W – Electricity and Electronics

### Environment, Technology and Society

ENVS 110W – Introduction to Environmental Science

ENVS 110W – Introduction to Environmental Science

ENVS 110W – Introduction to Environmental Science

HUMA 120W – Environmental Issues

### Historical Perspectives

ENGL 227W – History of American Women, 1690-1900

HIST 211W – America in the 20th Century

HIST 213W – United States in the Great Depression

HIST 214W – Western Civilization I

HIST 215W – Western Civilization II

HIST 216W – United States History to 1877

HIST 218W – America's Civil War 1861-1865

### World Cultures

ANTH 101W – Cultural Anthropology

ENGL 234W – Exploring Culture through Literature

### Fine and Performing Arts

ARTS 128W – A World of Art: Works in Progress

ARTS 130W – Introduction to Drawing

HUMA 105W – Introduction to Music (Exploring the World of Music)

### Social Science

CRMJ 110W – Terrorism

ECON 111W – Principles of Macroeconomics

ECON 112W – Principles of Microeconomics

ENGL 229W – Media and Society

POLS 231W – A Republic, If You Can Keep It: American Government

PSYC 111W – Psychology

PSYC 112W – Human Growth and Development

SOCI 111W – Sociology

SOCI 120W – Introduction to Economics & Sustainability

### Humanities

ENGL 213W – Survey of Women's Literature

ENGL 217W – North Country Literature and the New England Tradition

ENGL 223W – Survey of American Literature

ENGL 224W – The American Short Story

ENGL 226W – Critical Thinking through Literature

ENGL 233W – Environmental Literature

ENGL 238W – The Literature of Hunting and Fishing

ENGL 245W – Survey of British Literature I: AD 700-AD 1700

HUMA 126W – The Cinema: History and Art (American Cinema)

HUMA 130W – Philosophy for Modern Times

HUMA 140W – Science Fiction and Philosophy

HUMA 212W – Legal and Ethical Issues

HUMA 214W – World Religions

PHIL 101W – Introduction to Philosophy

PHIL 201W – Critics, Cynics, Radicals and Prophets

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### 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.

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