

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 your WMCC associate degree to a bachelor's degree program at UNH Manchester. This document will help you turn your A.S. in Information Technology from WMCC into a 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.

Once you've finished 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 64 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

MATH 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/DLAB

PHYS 111W – Survey of Physical Science

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

HUMA 120W – Environmental Issues

Historical Perspectives

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

HIST 211W – America in the 20th Century

Xxxx xxxW – American Economic Development

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

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

ART 130W – Introduction to Drawing

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

Social Science

ECON 111W – Principles of

Macroeconomics

ECON 112W – Principles of

Microeconomics

ENGL 229W – Media and Society

Xxxx xxxW – American Government

(Voices in Democracy)

POLS 231W – A Republic, If You Can Keep

It: American Government

PSYC 111W – Psychology

PSYC 112W – Human Growth and

Development

SOCI 111W – Sociology

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 214W – World Religions

PHIL 101W – Introduction to Philosophy

PHIL 201W – Critics, Cytics, 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 course¹ (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)²; Physical Science (PS)²; Environment, Technology and Society (ETS); Fine and Performing Arts (FPA); Historical Perspectives (HP); Humanities (HUMA); Social Science (SS) and World Cultures (WC)³

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.