University of New Hampshire at Manchester

White Mountains Community College

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 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 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.

UNH Manchester's Public Pathways Program qualifies for the **THE NEW HAMPSHIRE DUAL ADMISSION PROGRAM**

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
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

Writing Intensive
ENGL 120W – College Composition
ENGL 130W – Writing in Your Major
ENGL 220W – Writing the Short Story
ENGL 230W – Creative Writing Workshop

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[1] (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 underlined approved study abroad programs.

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