

Computer Information Systems Public Pathways Program

We have partnered with Nashua Community College to offer a Pathways Program that allows you to smoothly transition to UNH Manchester. This curriculum map shows you the **Software Development** 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 NCC ...	To fulfill these UNH degree requirements...
ENGL 101 – College Composition	Discovery writing skills course
CSCI 106 – Introduction to Software and Web Development	Elective credit
CSCI 102 – Website Development I ¹	Elective credit
CSCI 161 – Introduction to Programming ²	Elective credit
MATH 110 – Algebra and Trigonometry	No transfer credit
CSCI 140 – Essentials of Systems Analysis ³	Elective credit
CSCI 175 – Intermediate Programming: Using C++ ²	COMP 425 – Computing Fundamentals
CSCI 116 – Networking Basics	Major concentration course
MATH 170 – Discrete Mathematics	Discovery quantitative reasoning course
CSCI 103 – Website Development II ¹	COMP 405 – Introduction to Internet and Web Authoring
ENGL 230, 231, 240 or 241	Discovery humanities course
CSCI 207 – Database Design and Management ³	COMP 520 – Database Design and Development
CSCI 230 – Advanced Programming: Using C++ ⁴	Elective credit
Discovery-approved biological or physical science	Discovery biological or physical science course
Discovery-approved historical perspectives	Discovery historical perspectives course
Elective in major	Major concentration course
CSCI 278 – Data Structures: Using C++ ⁴	COMP 525 – Data Structures Fundamentals
CSCI 290 – Internship or CSCI 285 – Capstone	Major concentration course
Discovery-approved social science	Discovery social science course
GEOG 110 – World Geography	Discovery world cultures course
Elective in major	Major concentration course

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

1. Major credit when paired with CSCI 103 for COMP 405. Students must earn a grade of C or better in both CSCI 102 and CSCI 103 to earn credit for COMP 405.
2. Major credit when paired with CSCI 175 for COMP 425. Students must earn a grade of C or better in both CSCI 161 and CSCI 175 to earn credit for COMP 425.
3. Major credit when paired with CSCI 207 for COMP 520. Students must earn a grade of C or better in both CSCI 140 and CSCI 207 to earn credit for COMP 520.
4. Major credit when paired with CSCI 278 for COMP 525. Students must earn a grade of C or better in both CSCI 230 and CSCI 278 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 NCC, complete the following requirements at UNH Manchester to receive your bachelor's degree.

Major Course Requirements:

COMP 430 – System Fundamentals
COMP 530 – Machine and Network Architecture
COMP 550 – Networking Concepts
COMP 560 – Ethics and Law in the Digital Age
COMP 715 – Information Security
COMP 730 – Object-Oriented Software Development
COMP 690 – Internship Experience (4 credit)
COMP 790 – Capstone Project
UMST 582 – Internship and Career Planning Seminar (1 credit)
One Major concentration course
Three Major elective courses

Discovery Program* Course Requirements:

Discovery biological or physical science courses
Discovery fine and performing arts course
Discovery environment, technology and society 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 NCC to be eligible for dual enrollment at UNH Manchester.

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

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

Writing Skills

ENGL 101N – College Composition
ENGL 110N – Honors Expository Writing

Quantitative Reasoning

CSCI 161N – Intro to Programming Using Visual Basic
CSCI 175N – Intermediate Programming Using C++
MATH 106N – Statistics I
MATH 107N – Honors Statistics I
MATH 115N – Finite Mathematics
MATH 170N – Discrete Mathematics
MATH 206N – Statistics II
MATH 210N – Calculus I
MATH 214N – Honors Calculus I

Biological Science

BIOL 115 – Nutrition

Biological Science/DLAB

BIOL 101N – Germs 101
BIOL 105N – Biology in Focus I
BIOL 106N – Biology in Focus II
BIOL 107N – Principles of Biology I
BIOL 108N – Principles of Biology II
BIOL 111N – Basic Human Anatomy & Phys.
BIOL 130N – Anatomy and Physiology I
BIOL 131N – Anatomy and Physiology II
BIOL 201N – Adv. Anatomy and Physiology I
BIOL 202N – Adv. Anatomy and Physiology II
BIOL 210N – Medical Microbiology

Physical Science/DLAB

ENVS 105N – Earth Science
CHEM 110N – Intro to Chemistry
CHEM 130N – General Chemistry I
CHEM 131N – General Chemistry II
CHEM 135N – Honors Environment in Chemical Perspective
PHYS 101N – Physical Science I
PHYS 102N – Physical Science II
PHYS 115N – Astronomy
PHYS 116N – Meteorology
PHYS 130N – Physics I
PHYS 131N – Physics II

PHYS 230N – Calculus-Based Physics I
PHYS 231N – Calculus-Based Physics II

Environment, Technology & Society

ENVS 101N – Environmental Science
SOC 215N – Sociology of Technology

Historical Perspectives

HIST 101N – Western Civ. Ancient to 17 Century
HIST 102N – Western Civ. Since French Revolution
HIST 110N – Ancient Civ. of the World
HIST 140N – US History Colonial to Reconstruction
HIST 141N – US History since Reconstruction
HIST 210N – The Making of England: 1215-1707
HIST 215N – New Hampshire History
HIST 232N – History of Modern Asia
HIST 241N – American Constitutional History
HIST 246N – Modern America
HIST 260N – History of Multiculturalism
HIST 265N – Latin Amer. History from Independence to the Present

World Culture

ANTH 110N – Cultural Anthropology
ANTH 263N – Intro to Chinese Culture & Society
GEOG 110N – World Regional Geography
SPAN 205N – Spanish III
SPAN 206N – Spanish IV

Fine and Performing Arts

ARTS 101N – Intro to Drawing
HUMA 102N – Art Appreciation
HUMA 103N – Music Appreciation
HUMA 104N – Jazz and Its Roots
HUMA 120N – Intro to Theatre

Social Science

ANTH 105 – Ethnography of Work
ANTH 108N – Intro to Archeology
COMM 101N – Intro to Media Studies
COMM 102N – Principles of Communication

ECON 201N – Microeconomics
ECON 202N – Macroeconomics
GEOG 130N – Human Geography
POLS 101N – Intro to Political Science
POLS 102N – American Gov't and Politics
POLS 210N – State and Local Government
POLS 215N – World Affairs
POLS 220N – American Politics & Mass Media
PSYC 101N – Intro to Psychology
PSYC 130N – Human Relations
PSYC 201N – Human Growth and Development
SOC 101N – Intro to Sociology
SOC 201N – Contemporary Social Problems
SOC 228N – Social Inequalities

Humanities

ENGL 105N – Intro to Literature
ENGL 215N – Literature by American Women
ENGL 220N – Honors Contemporary Dramatic Literature
ENGL 230N – British Literature I
ENGL 231N – British Literature II
ENGL 240N – American Literature I
ENGL 241N – American Literature II
ENGL 255N – Honors Humor in Literature and Other Media
HIST 262N – Movies & Social History of USA
HUMA 101N – Intro to the Humanities
HUMA 107N – World Religions
HUMA 140N – American Cinema
HUMA 145N – American Popular Culture
HUMA 220N – Classic Myths in Western Civilization
PHIL 130N – Honors Ancient Greek Philosophy
PHIL 109N – Intro to Philosophy

Writing Intensive

ENGL 101N – College Composition
ENGL 102N – Writing About Literature
ENGL 105N – Intro to Literature
ENGL 235N – Poetry Workshop
ENGL 250N – Honors Advance Creative Writing



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.