

Computer Science Public Pathways Program

We have partnered with NHTI to offer a Pathways Program that allows you to smoothly transition your associate degree to a bachelor's degree. This curriculum map will help you turn your A.S. in Computer Engineering Technology into a B.A. in Computer Science at UNH Manchester.

Students must take these courses at NHTI ...	To fulfill these UNH degree requirements...
CPET 107 – Introduction to Programming C++ ¹	COMP 415 – Mobile Computing
ELET 101 – Electric Circuits	Elective credit
ELET 115 – Digital Fundamentals	Elective credit
ENGL 101 – English Composition	Discovery writing skills course
MATH 124 – College Algebra	No transfer credit
CPET 125 – Data Structures	COMP 525 – Data Structures
ELET 144 – Embedded Microsystems	COMP 430 – Systems Fundamentals
ENGL 285 – Literature, Technology and Culture	Discovery environment, technology and society course
ENGL 125 – Communication and the Literature of Science and Technology	Discovery humanities course
MATH 140 – Pre-Calculus	MATH 418 – Analysis and Applications of Functions
PHYS 133 – Physics I (Algebra-Based)* OR PHYS 231 – Physics I (Calculus-Based)	PHYS 401 – Introduction to Physics I ² OR PHYS 407 – General Physics I ²
CPET 240 – Programming for Windows	COMP 425 – Introduction to Programming
CPET 260 – Computer Real Time Interfacing	COMP 530 – Machine and Network Architecture
CPET 301 – Computer Project Definition	Elective credit
MATH 205 – Calculus I	MATH 425 – Calculus I
PHYS 135 – Physics II (Algebra-Based)* OR PHYS 232 – Physics II (Calculus-Based)	PHYS 402 – Introduction to Physics II OR PHYS 408 – General Physics II
Discovery-approved social science elective	Discovery social science course
CPET 215 – Integrated Circuits and Interfacing	Major elective credit
CPET 222 – Data Communications and Internetworking	Major elective credit
CPET 252 – Networking and Internet Technologies	Major elective credit
CPET 303 – Computer Project	COMP 590 – Entrepreneurship Project
Discovery-approved fine arts elective	Discovery fine and performing arts course

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

1. Fulfills the Discovery quantitative reasoning course requirement.
2. Fulfills the Discovery physical science course requirement.

* PHYS 133 and 135 will transfer as elective credits equivalent to UNH PHYS 401 and 402. Transfer students must petition the Computer Science department for a waiver of the calculus-based physics course sequence (PHYS 407 and 408), which the department will grant. If PHYS 231 and 232 are taken they will transfer as equivalent to UNH PHYS 407 and 408 and a petition is not required.

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

Major Course Requirements:

COMP 490 – Statistics

COMP 500 – Discrete Structures

COMP 560 – Ethics and Law in the Digital Age¹

COMP 625 – Data Structures

COMP 630 – Systems Software

COMP 690 – Internship

UMST 582 – Internship and Career Planning Seminar

COMP 790 – Capstone

1. Fulfills the Discovery humanities course requirement.

Discovery Program* Course Requirements:

Discovery biological science course

Discovery historical perspectives course

Discovery world culture course

University Degree Requirements:

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

University writing requirement**

Two semesters of an introductory foreign language***

* 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.

*** Students can fulfill the foreign language requirement by: A) Completing one full year of introductory-level courses in an any foreign language, including American Sign Language, as long as they did not study the language for 2 or more years in high school, or B) Completing one semester of an intermediate- or advanced-level foreign language course.



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 NHTI to be eligible for dual enrollment at UNH Manchester.

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

The NHTI courses* listed below fulfill UNH Manchester's Discovery Program course requirements:

Writing Skills

ENGL 101C – English Composition

Quantitative Reasoning

CPET 107C – Intro to Programming C++
MATH 125C – Finite Mathematics
MATH 205C – Calculus I
MATH 251C – Statistics

Biological Science

BIOL 125C – Human Genetics and Society

Biological Science/DLAB

BIOL 111C – General Biology I
BIOL 112C – General Biology II
BIOL 115C – Intro to Ecology
BIOL 117C – Intro to Plant Biology
BIOL 120C – Human Biology
BIOL 159C – Personal Nutrition
BIOL 195C – Anatomy and Physiology I
BIOL 196C – Anatomy and Physiology II
BIOL 202C – Microbiology
ENVS 101C – Fundamentals of Environmental Science

Physical Science

GEOL 101C – Essentials of Geology

Physical Science/DLAB

CHEM 103C – General Chemistry I
CHEM 104C – General Chemistry II
CHEM 105C – Chemistry
CHEM 110C – Intro to Biochemistry
CHEM 120C – Intro to Forensic Science
PHYS 133C – Physics I (Algebra-Based)
PHYS 135C – Physics II (Algebra-Based)
PHYS 231C – Physics I (Calculus-Based)
PHYS 232C – Physics II (Calculus-Based)
SCI 104C – Astronomy & Space
SCI 107C – Intro to Meteorology

Environment, Technology & Society

ENGL 285C – Literature, Technology and Culture

Historical Perspectives

HIST 104C – Western Civ.: Antiquity to 1650
HIST 105C – Western Civ.: 1650 to Present
HIST 120C – U.S. History to 1870
HIST 121C – U.S. History 1870 to Present
HIST 131C – World History I (to 1500)
HIST 132C – World History II (1500 to Present)
HIST 221C – New Hampshire History

World Culture

ANTH 101C – Intro to Cultural Anthropology
ANTH 210C – Native American Studies
INDL 120C – Global Public Health Issues

Fine and Performing Arts

DANC 140C – Intro to Modern Dance
VRTS 101C – Intro to Drawing
MUSC 105C – Intro to Music
MUSC 106C – History of Jazz, Blues, Rock & Roll
MUSC 107C – World Music
THTR 110C – Intro to Theatre
VRTS 101C – Intro to Drawing
VRTS 102C – Intro to Visual Arts
VRTS 111C – Survey of Western Art History
VRTS 112C – Survey of Western Art History
VRTS 115C – History of Modern Art

Social Science

ENGL286C/TECP86C – Intro to Linguistics
ENGL 120C – Communications
ENGL 120MC – Communications
ENGL 120WC – Communications
ECON 101C – Macroeconomics

ECON 102C – Microeconomics
POLS 110C – American Government
PSYC 105C – Intro to Psychology
PSYC 220C – Human Growth & Development: Life Span
SOCI 105C – Intro to Sociology
SOCI 205C – The Individual and Society
SOCI 214C – Ethnic & Race Relations

Humanities

ENGL 102C – Intro to Literature
ENGL 121C – Intro to Film
ENGL 125C – Communication & the Literature of Science & Technology
ENGL 150C – Intro to Drama
ENGL 160C – Intro to Poetry
ENGL 210C – British Literature I
ENGL 211C – British Literature II
ENGL 214C – American Lit. Survey I (to 1865)
ENGL 215C – American Lit. Survey II (1865-Present)
ENGL 251C – Contemporary Drama
ENGL 255C – Shakespeare
ENGL 260C – The Novel
ENGL 272C – Modern Short Fiction
ENGL 287C – Women in Literature
ENGL 291AC – Contemporary Latin American Literature
ENGL 291BC – Contemporary Spanish Literature
PHIL 110C – Intro to Philosophy
PHIL 226AC – Comparative World Religions
PHIL 242C – Contemporary Ethical Issues

Writing Intensive

ENGL 101C – English Composition
ENGL 120WC – Communicating Mindfully
ENGL 201C – English Composition
ENGL 295AC – Creative Writing: Fiction
ENGL 295CB – Creative Writing: Poetry
ENGL 295CC – 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 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.