

Biotechnology Public Pathways Program

We have partnered with **Nashua Community College** to offer a Pathways Program that allows you to smoothly transition your **NCC** associate degree to a bachelor's degree program at UNH Manchester. This document will help you turn you're **A.S. in Biological Sciences** from **NCC** into a **B.S. in Biotechnology** at UNH Manchester.

Students must take these courses at NCC...	To fulfill these UNH degree requirements...
BIOL 107 – Principles of Biology I ¹	BIOL 413 – Principles of Biology I
CHEM 130 – General Chemistry I ²	CHEM 403 – General Chemistry I
ENGL 101 – College Composition I	Discovery writing skills course
MATH 120 – Pre-Calculus*	MATH 418 – Analysis & Applications of Functions
BIOL 108 – Principles of Biology II	BIOL 414 – Principles of Biology II
CHEM 131 – General Chemistry II	CHEM 404 – General Chemistry II
Discovery-approved humanities elective	Discovery humanities course
MATH 106 – Statistics I ³	PSYC 402 – Statistics in Psychology
BIOL 215 – Microbiology	BMS 503/504 – General Microbiology
BTEC 205 - Bioethics ⁴ OR PHYS 130 – Physics I	BSCI 501 – Ethical Issues in Biology PHYS 401 – Introduction to Physics I
PSYC 101 – Introduction to Psychology ⁵	PSYC 401 – Introduction to Psychology
Discovery-approved history elective	Discovery historical perspectives course
Discovery-approved fine arts elective	Discovery fine and performing arts course
BIOL 270 – Advanced Topics in Biology ⁶	BSCI 670 – Clinical Pathophysiology**
BIOL 230 – Genetics	GEN 604 - Principles

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

* Taking a higher math is recommended for students who step into MATH 210 – Calculus I. MATH 210 transfers as equivalent to MATH 425 – Calculus I and satisfies the Biotechnology program math requirement.

** Comes in as an advanced biology course.

1. Fulfills requirements for both the Discovery Program (biological science/DLAB) and the Biological Sciences major at UNH Manchester.
2. Fulfills requirements for both the Discovery Program (physical science/DLAB) and the Biological Sciences major at UNH Manchester.
3. Fulfills the Discovery quantitative reasoning course requirement.
4. Fulfills the Discovery environment, technology and society course requirement.
5. Fulfills the Discovery social science course requirement.
6. BIOL 205N – Basic Pathophysiology is recommended. Other advanced topic courses are pending review.

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

Once you've finished your associate degree at NCC, complete the following requirements at UNH Manchester to receive your bachelor's degree.

Major Course Requirements:

600/700-level Biological concentration – four courses

BSCI 701 – Senior Seminar

Capstone (Internship, Research or Independent Study)

University Degree Requirements:

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

University writing requirement*

* 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

ARTS 111 – Photography & Digital Imaging
ENVS 101N – Environmental Science
SOCI 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
SOCI 101N – Intro to Sociology
SOCI 201N – Contemporary Social Problems
SOCI 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 Civ.
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.