**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 your **A.S. in Biological Sciences** from **NCC** into a **B.S. in Biotechnology** at UNH Manchester.

### Students must take these courses at NCC…

<table>
<thead>
<tr>
<th>NCC Course</th>
<th>UNH Equivalent</th>
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<tbody>
<tr>
<td>BIOL 107 – Principles of Biology I ¹</td>
<td>BIOL 413 – Principles of Biology I</td>
</tr>
<tr>
<td>CHEM 130 – General Chemistry I ²</td>
<td>CHEM 403 – General Chemistry I</td>
</tr>
<tr>
<td>ENGL 101 – College Composition I</td>
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</tr>
<tr>
<td>MATH 120 – Pre-Calculus*</td>
<td>MATH 418 – Analysis &amp; Applications of Functions</td>
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<tr>
<td>BIOL 108 – Principles of Biology II</td>
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<tr>
<td>CHEM 131 – General Chemistry II</td>
<td>CHEM 404 – General Chemistry II</td>
</tr>
<tr>
<td>Discovery-approved humanities elective</td>
<td>Discovery humanities course</td>
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<tr>
<td>MATH 106 – Statistics I ³</td>
<td>PSYC 402 – Statistics in Psychology</td>
</tr>
<tr>
<td>BIOL 215 – Microbiology</td>
<td>BMS 503/504 – General Microbiology</td>
</tr>
<tr>
<td>BTEC 205 - Bioethics🍊</td>
<td>BSCI 501 – Ethical Issues in Biology</td>
</tr>
<tr>
<td>PHYS 130 – Physics I</td>
<td>PHYS 401 – Introduction to Physics I</td>
</tr>
<tr>
<td>PSYC 101 – Introduction to Psychology ⁵</td>
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<tr>
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<tr>
<td>BIOL 270 – Advanced Topics in Biology ⁶</td>
<td>BSCI 670 – Clinical Pathophysiology**</td>
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<td>BIOL 230 – Genetics</td>
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### To fulfill these UNH degree requirements...

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

* Taking a higher math is recommended for students who test 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
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 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

**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

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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 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 (PPA); 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.

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

September 24, 2018