



## Biotechnology Public Pathways Program

We have partnered with Great Bay Community College to offer a Pathways Program that allows you to smoothly transition to UNH Manchester. This curriculum map will help you turn your **A.S. in Biotechnology** from GBCC into a **B.S. in Biotechnology** at UNH Manchester.

Students must take these courses at GBCC...	To fulfill these UNH degree requirements...
ENGL 110 – College Composition I	Discovery writing skills course
BIOL 108 – General Biology I <sup>1</sup>	BIOL 413 – Principles of Biology I
BTEC 105 – Intro to Biotech	Elective credit
MATH 150 – College Algebra <b>or</b> MATH 210 – Pre-calculus	No transfer credit for MATH 150. Elective credit for MATH 210
CIS 110 – Introduction to Computers	Elective credit
BTEC 205 – Bioethics	BSCI 501 – Ethical Issues in Biology
BIOL 109 – General Biology II	BIOL 414 – Principles of Biology II
CHEM 115 – General Chemistry I <sup>2</sup>	CHEM 403 – General Chemistry I
BIOL 220 – Genetics <sup>3</sup>	GEN 604 – Principles of Genetics
Discovery-approved fine arts elective <sup>4</sup>	Discovery fine and performing arts course
BTEC 210 – Biotech Research	Major elective credit in the Advanced Biology category
CHEM 116 – General Chemistry II	CHEM 404 – General Chemistry
BIOL 210 – Microbiology	BMS 503/504 – General Microbiology
ENGL 215 – Writing Technical Documents	ENGL 502 – Technical and Professional Writing
Discovery-approved social science elective <sup>4</sup>	Discovery social science course <b>or</b> SOC 120 – Environment, Technology and Society
BTEC 220 – Biomanufacturing <sup>5</sup>	CHE 651 – Biotech Experience/Biomanufacturing
CHEM 205 – Biochemistry <sup>6</sup>	BMCB 658/659 – General Biochemistry/General Biochemistry Lab
MATH225 – Probability and Statistics <sup>7</sup>	Discovery quantitative reasoning course

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

1. This course fulfills requirements for both the Discovery Program (biological science) and Biotechnology major at UNH Manchester.
2. This course fulfills requirements for both the Discovery Program (physical science) and Biotechnology major at UNH Manchester.
3. Technical electives that substitute for Genetics at GBCC will not necessarily transfer. Taking Genetics will expedite completion of the B.S. at UNH Manchester.
4. See page 3 for the list of Discovery-approved electives.
5. BTEC 220 counts as a Lab Techniques course in the major.
6. Biochemistry will transfer as a required course. Organic chemistry will transfer only as an elective. Taking Biochemistry will expedite completion of the B.S. at UNH Manchester.
7. This course fulfills requirements for both the Discovery Program (quantitative reasoning) and Biotechnology major at UNH Manchester.

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

**Major Course Requirements:**

CHEM 651/653 – Organic Chemistry I/Organic Chemistry Lab 1

CHEM 652/654 – Organic Chemistry II/ Organic Chem II Lab 2

Five advanced biology 600/700 courses (at least one from each of three groups and one writing intensive)

PHYS 401 – Introduction to Physics I

MATH 424B Calculus for Life Sciences\* **or** MATH 425 – Calculus I\* (if not already completed)

BSCI 701 – Senior Seminar (1 credit)

Capstone (Internship, Research, or Independent Study)

**Discovery Program\* Course Requirements:**

Discovery historical perspectives course

Discovery humanities course

Discovery world culture course

Discovery social science course **or** 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 GBCC to be eligible for dual enrollment at UNH Manchester.

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