Biotechnology Public Pathway Program

We have partnered with Manchester Community College to offer a Pathways Program that allows you to smoothly transition to UNH Manchester. This curriculum map shows you the MCC course sequence you should follow for seamless transfer into our B.S. in Biotechnology at UNH Manchester.

<table>
<thead>
<tr>
<th>Students must take these courses at MCC…</th>
<th>To fulfill these UNH degree requirements…</th>
</tr>
</thead>
<tbody>
<tr>
<td>FYC 100 – First Year Cornerstone</td>
<td>No transfer credit</td>
</tr>
<tr>
<td>ENGL 110 – College Composition I</td>
<td>Discovery writing skills course</td>
</tr>
<tr>
<td>BIOL 108 – College Biology I¹</td>
<td>BIOL 413 – Principles of Biology I</td>
</tr>
<tr>
<td>PSYC 110 – Introduction to Psychology</td>
<td>Discovery social science course</td>
</tr>
<tr>
<td>CHEM 115 – Chemistry I²</td>
<td>CHEM 403 – General Chemistry I</td>
</tr>
<tr>
<td>MATH 171 – Pre-Calculus OR MATH 204 – Calculus I</td>
<td>Elective credit OR Discovery quantitative reasoning course</td>
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<tr>
<td>Discovery-approved history course</td>
<td>Discovery historical perspectives course</td>
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<tr>
<td>Discovery-approved fine arts course</td>
<td>Discovery fine and performing arts course</td>
</tr>
<tr>
<td>BIOL 109 – College Biology II</td>
<td>BIOL 414 – Principles of Biology II</td>
</tr>
<tr>
<td>BIOL 110 – Human Anatomy and Physiology I</td>
<td>Elective credit</td>
</tr>
<tr>
<td>BIOL 120 – Human Anatomy and Physiology II</td>
<td>Elective credit</td>
</tr>
<tr>
<td>CHEM 116 – Chemistry II</td>
<td>CHEM 404 – General Chemistry II</td>
</tr>
<tr>
<td>ENGL 120 – College Composition II</td>
<td>Elective credit</td>
</tr>
<tr>
<td>PHIL 240 – Ethics</td>
<td>Discovery humanities course</td>
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<tr>
<td>BIOL 201 – Principles of Genetics</td>
<td>GEN 604 – Principles of Genetics</td>
</tr>
<tr>
<td>BIOL 210 – Microbiology²</td>
<td>BMS 503/504 – General Microbiology</td>
</tr>
<tr>
<td>BIOL 220 – Pathophysiology</td>
<td>Elective credit</td>
</tr>
<tr>
<td>LSCI 229 – Life Science Capstone</td>
<td>Elective credit</td>
</tr>
</tbody>
</table>

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

1. This course fulfills requirements for both Discovery biological science and Biotechnology major at UNH Manchester.
2. This course fulfills requirements for both Discovery physical science and Biotechnology major at UNH Manchester.
3. This course must have been taken Fall 2014 or later to count

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

**Major Course Requirements:**

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHEM 651/653</td>
<td>Organic Chemistry I/Organic Chemistry Lab I</td>
</tr>
<tr>
<td>CHEM 652/654</td>
<td>Organic Chemistry II/Organic Chemistry Lab II</td>
</tr>
<tr>
<td>BCMB 658/659</td>
<td>Biochemistry/Biochemistry Lab (writing intensive)</td>
</tr>
<tr>
<td>BSCI 501</td>
<td>Ethical Issues in Biology (writing intensive)</td>
</tr>
<tr>
<td>Five advanced Biology 600/700 courses</td>
<td>(at least one from each of three groups and one intensive writing course)</td>
</tr>
<tr>
<td>PHYS 401</td>
<td>Introduction to Physics OR PHYS 407 – General Physics I</td>
</tr>
<tr>
<td>PSYC 402</td>
<td>Statistics in Psychology</td>
</tr>
<tr>
<td>MATH 424B OR MATH 425</td>
<td>Calculus for Life Sciences OR Calculus I (if not already completed)</td>
</tr>
<tr>
<td>BSCI 701</td>
<td>Senior Seminar (1 credit)</td>
</tr>
<tr>
<td>Capstone</td>
<td>(Research, Internship or Independent Study)</td>
</tr>
</tbody>
</table>

**Discovery Program* Course Requirements:**

- Discovery quantitative reasoning course
- Discovery environmental, technology and society course
- Discovery world cultures course

**University Degree Requirements:**

- Elective courses to fill remainder of credits required for bachelor’s degree (128 credits)
- 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 MCC to be eligible for dual enrollment at UNH Manchester.

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

July 11, 2017
The Manchester Community College courses* listed below fulfill UNH Manchester's Discovery Program course requirements:

**Writing Skills**
- ENGL 110M – College Composition I

**Quantitative Reasoning**
- CIS 118M – Visual Basic Net Programming
- CIS 148M – Java Programming
- CIS 158M – C# Programming
- MATH 170M – Discrete Mathematics
- MATH 200M – Finite Math
- MATH 202M – Probability & Statistics
- MATH 204M – Calculus I

**Biological Science**
- BIOL 106M – Human Body
- BIOL 150M – Nutrition

**Biological Science/DLAB**
- BIOL 101M – General Concepts in Biology
- BIOL 102M – Introduction to Botany
- BIOL 107M – Human Body Lab
- BIOL 108M – College Biology I
- BIOL 109M – College Biology II
- BIOL 110M – Human Anatomy & Physiology I
- BIOL 120M – Human Anatomy & Physiology II
- BIOL 151M – Nutrition Lab
- BIOL 201M – Principles of Genetics

**Physical Science**
- PHYS 105M – Astronomy

**Physical Science/DLAB**
- CHEM 115M – General Chemistry I
- CHEM 116M – General Chemistry II
- ESCI 110M – Earth Science
- PHYS 110M – Physical Science I
- PHYS 120M – Physical Science II
- PHYS 135M – College Physics I
- PHYS 136M – College Physics II
- PHYS 210M – University Physics I
- PHSY 220M – University Physics II

**Environment, Technology & Society**
- ENVS 125M – Current Issues in the Environment

**Historical Perspectives**
- HIST 120M – Western Civ. through 1500
- HIST 130M – Western Civ. 1500 to Present
- HIST 202M – US History to 1870
- HIST 204M – US History 1870 to Present
- HIST 205M – History of Russia

**World Culture**
- ANTH 101M – Intro to Anthropology
- HIST 210M – History of China
- HIST 211M – Modern Middle Eastern History

**Fine and Performing Arts**
- ARTS 117M – Art History I
- ARTS 123M – Drawing I
- ARTS 130M – Intro to Art
- ARTS 217M – Art History II
- ENGL 202M – Intro to Drama
- HUMA 105M – Intro to Music
- HUMA 106M – History of American Popular Music

**Social Science**
- ANTH 102M – Intro to Archeology
- BUS 120M – Intro to Communications Media
- ECON 134M – Macroeconomics
- ECON 135M – Microeconomics

**Humanities**
- ENGL 200M – Topics in Literature
- ENGL 201M – Survey of Poetry
- ENGL 204M – Children's Literature
- ENGL 207M – Intro to Literary Analysis
- ENGL 218M – Short Story
- ENGL 223M – British Literature I
- ENGL 224M – British Literature II
- ENGL 225M – Shakespeare
- ENGL 230M – American Literature I
- ENGL 235M – American Literature II
- HIST 215M – World Religions
- HUMA 126M – Intro to Film
- HUMA 200M – Film & American Culture
- HUMA 220M – Love in the Western Tradition
- PHIL 110M – Intro to Philosophy
- PHIL 240M – Ethics

**Writing Intensive**
- ENGL 110M – College Composition I
- ENGL 120M – College Composition II
- ENGL 203M – Intro to Journalism
- ENGL 213M – Creative Writing
- ENGL 214M – Creative Nonfiction
- GEOG 110M – Geography
- POLS 110M – American Government
- POLS 210M – Intro to Political Science
- PSYC 110M – Intro to Psychology
- PSYC 210M – Human Growth & Development
- SOCI 109M – Contemporary Social Problems
- SOCI 110M – Sociology
- SOCI 250M – Multiculturalism

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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 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.

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* Course titles, names and/or sequencing are subject to change. November 4, 2016