Computer Information Systems Public Pathways Program

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

<table>
<thead>
<tr>
<th>Students must take these courses at NCC ...</th>
<th>To fulfill these UNH degree requirements...</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 101 – College Composition</td>
<td>Discovery writing skills course</td>
</tr>
<tr>
<td>CSCI 106 – Introduction to Software and Web Development</td>
<td>Elective credit</td>
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<tr>
<td>CSCI 102 – Website Development 1</td>
<td>Elective credit</td>
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<tr>
<td>CSCI 161 – Introduction to Programming 2</td>
<td>Elective credit</td>
</tr>
<tr>
<td>MATH 110 – Algebra and Trigonometry</td>
<td>No transfer credit</td>
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<tr>
<td>CSCI 140 – Essentials of Systems Analysis 3</td>
<td>Elective credit</td>
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<tr>
<td>CSCI 116 – Networking Basics</td>
<td>Major concentration course</td>
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<tr>
<td>MATH 170 – Discrete Mathematics</td>
<td>Discovery quantitative reasoning course</td>
</tr>
<tr>
<td>CSCI 103 – Website Development II 1</td>
<td>COMP 405 – Introduction to Internet and Web Authoring</td>
</tr>
<tr>
<td>ENGL 230, 231, 240 or 241</td>
<td>Discovery humanities course</td>
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<tr>
<td>CSCI 207 – Database Design and Management 3</td>
<td>COMP 520 – Database Design and Development</td>
</tr>
<tr>
<td>CSCI 230 – Advanced Programming: Using C++ 4</td>
<td>Elective credit</td>
</tr>
<tr>
<td>Discovery-approved biological or physical science</td>
<td>Discovery biological or physical science course</td>
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<tr>
<td>Discovery-approved historical perspectives</td>
<td>Discovery historical perspectives course</td>
</tr>
<tr>
<td>Elective in major</td>
<td>Major concentration course</td>
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<tr>
<td>CSCI 278 – Data Structures: Using C++ 4</td>
<td>COMP 525 – Data Structures Fundamentals</td>
</tr>
<tr>
<td>CSCI 290 – Internship or CSCI 285 – Capstone</td>
<td>Major concentration course</td>
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<tr>
<td>Discovery-approved social science</td>
<td>Discovery social science course</td>
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<tr>
<td>GEOG 110 – World Geography</td>
<td>Discovery world cultures course</td>
</tr>
<tr>
<td>Elective in major</td>
<td>Major concentration course</td>
</tr>
</tbody>
</table>

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

1. Major credit when paired with CSCI 103 for COMP 405. Students must earn a grade of C or better in both CSCI 102 and CSCI 103 to earn credit for COMP 405.
2. Major credit when paired with CSCI 175 for COMP 425. Students must earn a grade of C or better in both CSCI 161 and CSCI 175 to earn credit for COMP 425.
3. Major credit when paired with CSCI 207 for COMP 520. Students must earn a grade of C or better in both CSCI 140 and CSCI 207 to earn credit for COMP 520.
4. Major credit when paired with CSCI 278 for COMP 525. Students must earn a grade of C or better in both CSCI 230 and CSCI 278 to earn credit for COMP 525.

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

**Major Course Requirements:**

- COMP 430 – System Fundamentals
- COMP 530 – Machine and Network Architecture
- COMP 550 – Networking Concepts
- COMP 560 – Ethics and Law in the Digital Age
- COMP 715 – Information Security
- COMP 730 – Object-Oriented Software Development
- COMP 690 – Internship Experience (4 credit)
- COMP 790 – Capstone Project
- UMST 582 – Internship and Career Planning Seminar (1 credit)
- One Major concentration course
- Three Major elective courses

**Discovery Program* Course Requirements:**

- Discovery biological or physical science courses
- Discovery fine and performing arts course
- 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 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**
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 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. 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 Civilization
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 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); Physical Science (PS); 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.

February 23, 2018