University of New Hampshire at Manchester

Nashua Community College

Academic Year 2015-2016

Computer Information Systems 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 Software Development from NCC into a B.S. in Computer Information Systems at UNH Manchester.

Students must take these courses at NCC …	To fulfill these UNH degree requirements…
ENGL 101 – College Composition	Discovery writing skills course
CSCI 106 – Introduction to Software and Web Development	Elective credit
CSCI 102 – Website Development I [1]	Elective credit
CSCI 161 – Introduction to Programming [2]	Elective credit
MATH 110 – Algebra and Trigonometry	No transfer credit
CSCI 140 – Essentials of Systems Analysis [3]	Elective credit
CSCI 175 – Intermediate Programming: Using C++ [2]	COMP 425 – Computing Fundamentals
CSCI 116 – Networking Basics	Major concentration course
MATH 170 – Discrete Mathematics	Discovery quantitative reasoning course
CSCI 103 – Website Development II [1]	COMP 405 – Introduction to Internet and Web Authoring
ENGL 230, 231, 240 or 241	Discovery humanities course
CSCI 207 – Database Design and Management [3]	COMP 520 – Database Design and Development
CSCI 230 – Advanced Programming: Using C++	Major concentration course
Discovery-approved biological or physical science	Discovery biological or physical science course
Discovery-approved historical perspectives	Discovery historical perspectives course
Elective in major	Major concentration course
CSCI 278 – Data Structures: Using C++	COMP 525 – Data Structures Fundamentals
CSCI 290 – Internship **or** CSCI 285 – Capstone	Major concentration course
Discovery-approved social science	Discovery social science course
GEOG 110 – Cultural Anthropology	Discovery world cultures course
Elective in major	Major concentration course

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

1. Students must earn a C or higher in both CSCI 102 and CSCI 103 to earn credit for COMP 405.
2. Students must earn a C or higher in both CSCI 161 and CSCI 175 to earn credit for COMP 425.
3. Students must earn a C or higher in both CSCI 140 and CSCI 207 to earn credit for COMP 520.

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

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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:

- 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 685 – Professional Development Seminar (1 credit)
- COMP 690 – Internship Experience (4 credit)
- COMP 790 – Capstone Project
- 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 64 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 NCC 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 115N – Finite Mathematics
MATH 170N – Discrete Mathematics
MATH 206N – Statistics II
MATH 210N – Calculus I
MATH 214N – Honors Calculus I

Biological Science
BIOL 105N – Biology in Focus I
BIOL 106N – Biology in Focus II

Biological Science/DLAB
BIOL 107N – Principles in Biology I
BIOL 108N – Bio II: An Evolutionary Journey
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 215N – 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 the Env. 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 210N – History of Modern America
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 Indep. to Pres.

World Culture
ANTH 110N – Cultural Anthropology
ANTH 263N – Intro to Chinese Culture & Society
GEOG 110N – World Regional Geography
SPAN 206N – Spanish IV

Fine And Performing Arts
ARTS 101N – Intro to Drawing
ENGL 220N – Contemporary Dramatic Literature
HUMA 102N – Art Appreciation
HUMA 103N – Music Appreciation
HUMA 104N – Jazz and Its Roots
HUMA 120N – Intro to Theatre

Social Science
ANTH 108N – Intro to Archeology
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 220N – American Politics and 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 230N – British Literature I
ENGL 231N – British Literature II
ENGL 240N – American Literature I
ENGL 241N – American Literature II
ENGL 255N – Honors Human in Lit. 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 I
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 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 (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.

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

January 20, 2016