

Analytics and Data Science Public Pathways 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 Analytics and Data Science degree program.

Students must take these courses at MCC...	To fulfill these UNH degree requirements...
CIS 113 – Database Design and Management Using SQL ¹	Elective credit
MATH 204 – Calculus 1	MATH 425 – Calculus I
BUS 110 – Introduction to Business	BUS 400 – Introduction to Business
FYE 101 – First Year Cornerstone	No transfer credit
ENGL 101 – College Composition I	Discovery writing skills course
ENGL 206 – Professional Communication	ENGL 502 – Technical Writing
MATH 214 – Calculus II	MATH 426 – Calculus II
CIS 118, 122, 126, 148, or 158 – Programming Language elective ²	Elective credit
Discovery-approved social science course	Discovery social science course
CIS 220 – Object-Oriented Programming ²	COMP 425 – Computing Fundamentals
CIS 233 – Oracle Database Administration ¹	COMP 520 – Database Design and Development
Discovery-approved fine arts course	Discovery fine and performing arts course
ESCI – Introduction to Environmental Science	Discovery environment, technology and society course
MATH 202 – Probability and Statistics I	Discovery quantitative reasoning course
MATH 212 – Probability and Statistics II	COMP 490 – Statistics in Computing and Engineering
DATA 210 – Introduction to Data Mining Analytics	DATA 557 – Introduction to Data Science and Analytics
Discovery-approved physical science	Discovery physical science course
Discovery-approved history course	Discovery historical perspectives course
MATH 218 – Linear Algebra	MATH 545 – Introduction to Linear Algebra or MATH 645 – Linear Algebra for Applications
Discovery-approved biological science	Discovery biological science course
DATA 215 – Applied Analytics	Elective credit

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

1. Major credit when paired with CIS 233 for COMP 520. Students must earn a grade of C or better in both CIS 113 and CIS 233 to earn credit for COMP 520.
2. Major credit when paired with CIS 220 for COMP 425. Students must earn a grade of C or better in both the selected elective and CIS 220 to earn credit for COMP 425.

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:

MATH 739 – Applied Regression

COMP 430 – System Fundamentals

COMP 525 – Data Structures Fundamentals

DATA 674 – Predictive and Prescriptive Analytics I

DATA 675 – Predictive and Prescriptive Analytics II

DATA 757 – Big Data

BUS 453 – Leadership for Managers

BUS 620 – Organizational Behavior

USMT 599 – Professional Development Seminar (1 credit)

DATA 690 – Internship Experience (4 credits)

DATA 790 – Capstone Project

Discovery Program* Course Requirements:

Discovery humanities course

Discovery world cultures course

University Degree Requirements:

Elective courses to fill remainder of 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 MCC to be eligible for dual enrollment at UNH Manchester.

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

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

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

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



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.