



Analytics Public Pathways Program

We have partnered with Great Bay Community College to offer a Pathways Program that allows you to smoothly transition your GBCC associate degree to a bachelor's degree program at UNH Manchester. This document will help you turn your A.S. in Analytics from GBCC into a B.S. in Analytics at UNH Manchester.

Students must take these courses at GBCC...	To fulfill these UNH degree requirements...
CIS 112 – Introduction to Object-Oriented Programming ¹	Elective Credit
MATH 230 – Calculus I	MATH 425 – Calculus I
BUS 110 – Introduction to Business	BUS 400 – Introduction to Business
FYE 101 – First Year Seminar	No transfer credit
ENGL 110 – College Composition I	Discovery writing skills course
ENGL 215 – Writing Technical Documents	ENGL 502 – Technical Writing
MATH 250 – Calculus II	MATH 426 – Calculus II
CIS 113 – Database Design and Management ²	Elective credit
CIS 148 – Introduction to Java Programming ¹	COMP 425 – Computing Fundamentals
Discovery-approved fine arts	Discovery fine and performing arts course
SOC 120 – Society and Technological Change	Discovery environment, technology and society course
CIS 177 – Python	Elective credit
MATH 235 – Statistics for Engineers and Scientists	COMP 490 – Statistics in Computing and Engineering
DATA 210 – Elements of Data Science	DATA 557 – Introduction to Data Science and Analytics
Discovery-approved physical science	Discovery physical science course
Discovery-approved history	Discovery historical perspectives course
CIS 210 – Data Structures with Elementary Algorithms ²	COMP 520 – Database Design and Development
MATH 245 – Linear Algebra	MATH 545 – Intro to Linear Algebra or MATH 645 – Linear Algebra for Applications
Discovery-approved biological science	Discovery biological science course
DATA 220 – Data Analysis w/R	Elective credit
DATA 225 – Analytics Capstone	Elective credit

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

1. Major credit when paired with CIS 148 for COMP 425. Students must earn a grade of C or better in both CIS 112 and CIS 148 to earn credit for COMP 425.
2. Major credit when paired with CIS 210 for COMP 520. Students must earn a grade of C or better in both CIS 113 and CIS 210 to earn credit for COMP 520.

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

Once you've finished your associate degree at GBCC, 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 world cultures course

Discovery social science course

Discovery humanities 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 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 GBCC to be eligible for dual enrollment at UNH Manchester.

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

The Great Bay Community College courses* listed below fulfill UNH Manchester's Discovery Program course requirements:

Writing Skills

ENGL 110G – College Composition I

Quantitative Reasoning

CIS 148G – Intro to Java Programming

CIS 158G – Introduction to C++

MATH 170G – Discrete Mathematics

MATH 215G – Finite Mathematics

MATH 225G – Probability & Statistics

MATH 230G – Calculus I

MATH 235G – Statistics for Engineers

& Scientists

Biological Science/DLAB

BIOL 101G – Human Disease

BIOL 106G – Human Body

BIOL 108G – Biology I

BIOL 109G – Biology II

BIOL 110G – Human Anatomy & Physiology I

BIOL 120G – Human Anatomy & Physiology II

BIOL 150G – Nutrition

BIOL 160G – Intro to Environmental Science

BTEC 105G – Intro to Biotechnology

Physical Science

CHEM 110G – Introduction to Chemistry

CHEM 115G – General Chemistry

CHEM 116G – General Chemistry II

ECSI 110G – Earth Science

PHYS 135G – College Physics I

PHYS 136G – College Physics II

PHYS 290G – University Physics I

PHYS 295G – University Physics II

Environment, Technology & Society

BTEC 205G – Bioethics

NATR 105G – Sustainable Agriculture & Food Systems

NATR 229G – Contemporary Conservation Issues & Environmental Awareness

SOCI 120G – Society & Technological Change

Historical Perspectives

HIST 120G – Western Civilization thru 1500

HIST 130G – Western Civilization 1500-Pres

HIST 201G – History of New England

HIST 202G – US History thru 1870

HIST 204G – US History 1870 to Present

HIST 212G – US History since 1945

World Culture

ANTH 101G – Intro to Anthropology

HIST 210G – History of China

HIST 211G – Modern Middle East History

Fine and Performing Arts

ARTS 103G – Fundamentals of Acting

ARTS 105G – Introduction to Music

ARTS 117G – Art History I

ARTS 123G – Drawing I

ARTS 124G – Art, Design & Color

ARTS 125G – Visual Language

ARTS 127G – Art History II

ARTS 137G – Contemporary Art History

DGMT 115G – Intro to Graphic Design

Social Science

AMER 110G – Intro to American Studies

ECON 234G – Macroeconomics

ECON 235G – Microeconomics

GEOG 110G – World Geography

POLS 110G – American Government

POLS 210G – Intro to Political Science

PSYC 110G – Intro to Psychology

PSYC 210G – Human Growth & Development

SOCI 110G – Sociology

SOCI 135G – Sociology of Gender

SOCI 250G – Multi-Ethnic Cross

Cultural Relations

Humanities

ENGL 117G – Introduction to Literature

ENGL 120G – Introduction to African-American Literature & Culture

ENGL 200G – Film and Society

ENGL 209G – American Literature through the Civil War

ENGL 212G – Sociology of Gender

ENGL 220G – American Literature after the Civil War

ENGL 222G – Major Writers

ENGL 223G – British Literature to 1800

ENGL 224G – British Literature from 1800-Present

ENGL 225G – Plays of William Shakespeare

PHIL 110G – Introduction to Philosophy

PHIL 215G – World Religions

PHIL 240G – Ethics

Writing Intensive

ENGL 110G – College Composition I

ENGL 213G – Creative Writing

ENGL 214G – Introduction to Creative

Nonfiction (formerly College

Composition II)



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.