

QUANTITATIVE INQUIRY PATHWAY

Overview

The *Quantitative Inquiry* Pathway focuses on data driven reasoning, technological problem-solving and empirically-grounded decision-making skills. The overwhelming complexity of our interconnected world requires quantitative tools to make sense of it. This Pathway prepares students to make decisions grounded in measurable information, including the employment of technology to process and interpret reality and implement solutions. Through the courses in this Pathway, students learn to model complexity and interpret data in order to effect policy and enable action.

Majors restrict Pathway Certificates to encourage a breadth of skills-development beyond their program. A Quantitative Inquiry Pathway Certificate may be earned within a major **as a second certificate** for students in the following majors:

Accounting (BS)
Allied Health Sciences (BS)
Business Administration (BS)
Computer Science (BS)
Cybersecurity (APB)
Cybersecurity (BS)
Digital Music Production and Entrepreneurship (BA)
Finance (BS)
Forensic Science (BS)
Information Technology (BS)
Management (BS)
Marketing (BS)
Mathematical Data Science (BS)
Mathematics (BS)
Meteorology (BS)
Music and Music Education (BS)
Robotics (BS)
Robotics and Automation Engineering (APB)
Small Business Administration (APB)
Social Sciences (BS)
Sustainability Studies (BA)
Theatre Arts (BA)

BUS 2000	Financial & Managerial Accounting
BUS 3000	Financial Management
BUDI 2400	Personal Financial Planning (SSDI,WECO)
CS 2220	
CS 2370	Introduction to Programming
DAT 3000	Data Wrangling & Visualization (QRCO,TECO)
FIN 3100	Financial Analytics (QRCO,TECO)
HW 3705	Social Statistics (QRCO)
MGM 3190	Business Operations Analytics (QRCO)
MKT 3120	Marketing Research and Consumer Insights (QRCO)
MT 3230	Atmospheric Thermodynamics
MT 3725	Instruments and Observations in Meteorology
MU 2105	Introduction to Music Technology (TECO)
MU 3105	Recording and Mixing
MU 4115	Creating Music for Video
PE 2735	Motor Development
PE 3570	Kinesiology
PE 3720	Motor Learning
PO 3065	Political Analysis and Policy (TECO,WRCO)
SU 3115	Economic and Ecological Sustainability (GACO,QRCO)
TH 2500	Stagecraft Fundamentals (QRCO)
TH 2600	Fundamentals of Costume Construction
TH 3310	Theatre Technology: Topics

Total Credits **15-16**

Degree Requirements

Course	Title	Credits
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All students complete a quantitative foundations course, but Quantitative Inquiry pursues these skills in greater depth. This Pathway prepares students to make decisions grounded in measurable information, including the employment of technology to process and interpret reality and implement solutions. Students learn to model complexity and interpret data in order to effect policy and enable action.

Pathway Certificate Requirements	15-16
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To attain a Pathway certificate in Quantitative Inquiry, students must complete 15-16 credits from the following list of courses, including at least two courses at the 3000 level or higher from this list:

ACC 4100	Accounting Info Systems and Analytics (QRCO,TECO)
AHS 3305	Epidemiology and Evidence Based Medicine (GACO,QRCO,WRCO)
AN 3605	Forensic Anthropology
ANDI 2205	The Science of Archaeology (SIDI)