

B.S. in Mathematics
Applied Math or Statistics Concentration
Interdisciplinary Sequence Suggestions

Italicized courses are needed as prerequisites (and are generally General Education courses), but are not an official part of the sequence.

Accounting

- ACC 200 – Fundamentals of Financial Accounting (3 credits)
- ACC 201 – Managerial Accounting (3 credits)
- ACC 306 – Tax Accounting (3 credits)

OR

ACC 312 – Cost Determination and Analysis (3 credits)

Biology

- *BIO 115 – Principles of Biology I (4 credits)*
- BIO 208 – Field Biology (3 credits)
- BIO 242 – Ecology (3 credits)
- BIO 444 – Conservation Biology (3 credits)

OR

- *BIO 115 – Principles of Biology I (4 credits)*
- CHM 121 – Chemical Bonding (3 credits)
- BIO 116 – Principles of Biology II (4 credits)
- BIO 260 – Genetics (3 credits)

Chemistry

- CHM 121 – Chemical Bonding (3 credits)
- CHM 125 – Laboratory IB – Stoichiometry & Reactions (1 credit)
- CHM 122 – Chemical Dynamics (3 credits)
- CHM 126 – Laboratory IIB – Equilibrium and Instrumentation (1 credit)

OR

CHM 124 – Laboratory IIA – Experimental Quantitative Analysis (1 credit)

Computer Science

- *CSC 110 – Computer Science I (4 credits)*
- CSC 111 – Computer Science II (4 credits)
- CSC 210 – Data Structures and Algorithms (4 credits)

OR

CSC 220 – Computer Organization (4 credits)

OR

CSC 401 – Simulation Techniques (4 credits)

Criminal Justice

- CRJ 100 – Introduction to Criminal Justice (3 credits)
- CRJ 241 – Survey of Corrections (3 credits)

- CRJ 310 – Research Methods (3 credits)

OR

- CRJ 100 – Introduction to Criminal Justice (3 credits)
- CRJ 336 – Introduction to Forensic Science (3 credits)
- CRJ 456 – Forensic Science Evidence Analysis (3 credits)

Earth Science

- ESS 110 – Introduction to Geology (3 credits)
- ESS 210 – Physical Geology (3 credits)
- ESS 442 – Environmental Geology (3 credits)

OR

- *ESS 111 – Introduction to the Atmosphere (3 credits)*
- ESS 207 – Atmospheric Studies (3 credits)
- ESS 355 – Meteorology (3 credits)
- ESS 404 – Applied Meteorology and Climatology (3 credits)

Economics

- ECN 102 – Principles of Microeconomics (3 credits)

OR

- ECN 113 – Principles of Economics (4 credits)
- ECN 280 – Managerial Economics (3 credits)
- ECN 303 – Labor Economics: Theory & Policy (3 credits)

OR

- *ECN 101 – Principles of Macroeconomics (3 credits)*
- ECN 102 – Principles of Microeconomics (3 credits)
- ECN 484 – Mathematical Economics (3 credits)
- ECN 485 – Econometrics (3 credits)

Finance

- *ECN 102 – Principles of Microeconomics (3 credits)*

OR

- *ECN 113 – Principles of Economics (4 credits)*
- *ACC 200 – Fundamentals of Financial Accounting (3 credits)*
- FIN 311 – Financial Management (3 credits)
- FIN 312 – Investments (3 credits)
- FIN 442 – Derivatives Markets (3 credits)

OR

- *ECN 102 – Principles of Microeconomics (3 credits)*
- **OR**
- *ECN 113 – Principles of Economics (4 credits)*
- ACC 200 – Fundamentals of Financial Accounting (3 credits)
- FIN 311 – Financial Management (3 credits)
- FIN 425 – Global Financial Management (3 credits)

OR

- *ECN 102 – Principles of Microeconomics (3 credits)*

OR

ECN 113 – Principles of Economics (4 credits)

- *ACC 200 – Fundamentals of Financial Accounting (3 credits)*
- *FIN 311 – Financial Management (3 credits)*
- *FIN 340 – Principles of Real Estate (3 credits)*
- *FIN 405 – Real Estate Appraisal and Investment Analysis (3 credits)*

OR

- *ECN 102 – Principles of Microeconomics (3 credits)*

OR

ECN 113 – Principles of Economics (4 credits)

- *ACC 200 – Fundamentals of Financial Accounting (3 credits)*
- *FIN 311 – Financial Management (3 credits)*
- *FIN 333 – Applied Company and Security Planning (3 credits)*

OR

- *ECN 102 – Principles of Microeconomics (3 credits)*

OR

ECN 113 – Principles of Economics (4 credits)

- *ACC 200 – Fundamentals of Financial Accounting (3 credits)*
- *FIN 311 – Financial Management (3 credits)*
- *FIN 320 – Risk Management and Insurance (3 credits)*

Geography (any 3 of the following)

- *GEO 441 – Quantitative Methods (3 credits)*
- **ANY 2 of the FOLLOWING**
 - GEO 202 – Introduction to Geographic Information Systems (3 credits)*
 - GEO 203 – Climatology (3 credits)*
 - GEO 222 – Map and Air Photo Analysis (3 credits)*
 - GEO 226 – Hydrology (3 credits)*
 - GEO 244 – Land Use (3 credits)*
 - GEO 420 – Geographic Information Systems (3 credits)*
 - GEO 440 – Field Techniques (3 credits)*
 - GEO 441 – Quantitative Methods (3 credits)*
 - GEO 444 – Environmental Land-Use Planning (3 credits)*
 - GEO 445 – Remote Sensing (3 credits)*
 - GEO 446 – Water Resources Management (3 credits)*

Gerontology

- *GRN 100 – Introduction to Gerontology (3 credits)*
- *GRN 483 – Using Applied Statistics in Gerontology Professions (3 credits)*
- *GRN 484 – Evaluating Gerontology Programs, Services and Products (3 credits)*

Information Management and Analysis

- *ECN 113 – Principles of Economics (4 credits)*
- *ISM 142 – Business Computer Systems (3 credits)*
- *INM 380 – Data Mining for Information Management (3 credits)*

OR

- ECN 113 – Principles of Economics (4 credits)
- INM 330 – Operations Management (3 credits)
- INM 390 – Applications of Information Management (3 credits)

OR

- ECN 113 – Principles of Economics (4 credits)
- INM 330 – Operations Management (3 credits)
- INM 481 – Decision Models for Supply Chain Management (3 credits)

Philosophy

- PHL 102 – Critical Thinking (3 credits)
- PHL 285 – Philosophy of Science (3 credits)
- PHL 301 – Formal Logic (3 credits)

Physics

- PHY 205 – Intermediate Physics I (4 credits)
- PHY 313 – Intermediate Physics II (4 credits)

Political Science

- PLS 100 – U.S. Government and Politics (3 credits)
- PLS 301 – Political Science Research Methods (3 credits)
- PLS 302 – Public Policy Analysis (3 credits)

Psychology

- PSY 101 – General Psychology (3 credits)
- OR**
- PSY 102 – Foundations of Psychology (3 credits)
 - PSY 301 – Experimental Psychology (3 credits)
 - PSY 305 – Applied Research Methods in Psychology (3 credits)

Sociology

- SOC 101 – Introduction to Sociology: Society and Diversity (3 credits)
- SOC 385 – Introduction to Social Research (3 credits)
- SOC 386 – Data Collection and Analysis (3 credits)