I. Introductory Restricted Elective (3 credits): Choose one course from the following list. Note, three 1-credit SPIA modules will count as one class for this section.

ACIS 1504  Introduction to Business Analytics & Business Intelligence (3)
CS 1014  Introduction to Computational Thinking (3)
Core outcome: Foundational Quantitative and Computational Thinking
Integrative outcome: Ethical Reasoning
FREC 1004/GEOG 1084  Digital Planet (3)
Core outcome: Foundational Quantitative and Computational Thinking
Integrative outcome: Ethical Reasoning
HIST/SOC/STS 2604  Introduction to Data in Social Context (3)
Core outcome: Foundational Quantitative and Computational Thinking; Critical Thinking in the Humanities
Integrative outcome: Ethical Reasoning; Intercultural and Global Awareness
STAT 1014  Data in our Lives (3)
Core outcome: Foundational Quantitative and Computational Thinking
Integrative outcome: Ethical Reasoning

Three 1-credit SPIA classes:
SPIA 2005  Introduction to Urban Analytics (1)
Core outcome: Advanced Quantitative and Computational Thinking
Integrative outcome: Ethical Reasoning
SPIA 2006  Introduction to Urban Analytics (1)
Core outcome: Advanced Quantitative and Computational Thinking
Integrative outcome: Ethical Reasoning
SPIA 2104  Urban Analytics for Decisions-Making (1)
Core outcome: Advanced Quantitative and Computational Thinking
Integrative outcome: Ethical Reasoning

II. Core Requirements (6 credits):

BDS 2005  Fundamentals of Behavioral Decision Science (3)
Core outcome: Reasoning in the Social Sciences
Integrative outcome: Ethical Reasoning
CMDA 2014  Data Matter (Pre: MATH 1014) (3)
Core outcome: Advanced Quantitative and Computational Thinking
Integrative outcome: Ethical Reasoning
III. Restricted Electives - Applying Data and Decisions (6 Credits): Choose two courses from the following list.

  - Core outcome: Reasoning in the Social Sciences
  - Integrative outcome: Ethical Reasoning

- BIT 3434 Advanced Modeling for Business Analytics (Pre: BIT 2406) (3)

- BIT 4604 Data Governance, Privacy, and Ethics (Pre: BIT 2405 or CMDA 2014 or CS 1114) (3)
  - Core outcome: Critical Thinking in the Humanities
  - Integrative outcome: Ethical Reasoning

- FREC 3044 Environmental Data Science (3)
  - Core outcome: Advanced Quantitative and Computational Thinking
  - Integrative outcome: Ethical Reasoning

- GEOS/GEOG 4354 Introduction to Remote Sensing (3)

- HD 3024 Community Analytics (3)

- HIST 2624 Topics in the History of Data in Social Context (3)
  - Core outcome: Discourse; Critical Thinking in the Humanities
  - Integrative outcome: Ethical Reasoning

- HIST 3774 Digital History (3)

- PHS/HNFE 3634 Epidemiologic Concepts of Health and Disease (3)

- PHS 4064 Modeling Infectious Diseases (3)

- PSCI 2024 Research Methods in Political Science (Pre: (PSCI 1014 or PSCI 1014H), (PSCI 1024 or PSCI 1024H)) (3)

- SOC/HD 2104 Quantitative Approaches to Community Research (3)
  - Core outcome: Foundational Quantitative and Computational Thinking
  - Integrative outcome: Ethical Reasoning

- SOC 3204 Social Research Methods (Pre: SOC 1004) (3)

- STAT 3604 Statistics for Social Sciences (3)
  - Core outcome: Advanced Quantitative and Computational Thinking
  - Integrative outcome: Ethical Reasoning

- UAP 3024 Urban and Regional Analysis (3)

IV. Data and Decisions Capstone Requirement (3 credits):

  - Core outcome: Advanced Discourse
  - Integrative outcome: Intercultural and Global Awareness

Prerequisites
Some courses listed on this checksheet may have prerequisites. Students are required to double check course prerequisites and equivalents. Please see your advisor or consult the Undergraduate Course Catalog for more information.

Acceptable Substitutions:
- CS 1014: CS 1114 Introduction to Software Design OR CS 1064 Introduction to Programming in Python OR CS 1054 Introduction to Programming in Java OR CS 1044 Introduction to Programming in C
- STAT 3604: STAT 3005 Statistical Methods OR STAT 3615 Biological Statistics OR CMDA 2005 Integrated Quantitative Sciences*

*Note: If CMDA 2005 is taken for an Applying Data & Decisions Restricted Elective, 9 credits of Applying Data & Decisions Restricted Electives will be required for the minor, making the total minor requirements 21.

Minimum GPA
For the courses attempted for this minor, the student must have a GPA of 2.0 or better.

Number of Credits
18 total credit hours are required to complete the minor.