College of Science

Academy of Integrated Science

Minor: Data and Decisions

For students graduating in calendar year 2020

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 *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(3)____
FREC 1004/GEOG 1084	Digital Planet *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(3)____
HIST/SOC/STS 2604	Introduction to Data in Social Context *Core outcome: Quantitative and Computational Thinking; Critical Thinking in the Humanities* *Integrative outcome: Ethical Reasoning; Intercultural and Global Awareness*	(3)____
STAT 1014	Data in our Lives *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(3)____
Three 1-credit SPIA classes:		
SPIA 2005	Introduction to Urban Analytics *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(1)____
SPIA 2006	Introduction to Urban Analytics *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(1)____
SPIA 2104	Urban Analytics for Decisions-Making *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(1)____

II. Core Requirements (6 credits):

CMDA 2014	Data Matter (Pre: MATH 1014) *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(3)____
BDS 2005	Fundamentals of Behavioral Decision Science *Core outcome: Reasoning in the Social Sciences* *Integrative outcome: Ethical Reasoning*	(3)____

III. Restricted Electives - Applying Data and Decisions (6 Credits): Choose two courses from the following list.

FREC 3004	Environmental Informatics *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(3)____
GEOS/GEOG 4354	Introduction to Remote Sensing	(3)____
STAT 3604	Statistics for Social Sciences *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(3)____
PSCI 2024	Research Methods in Political Science (Pre: (1014 or 1014H), (1024 or 1024H))	(3)____
SOC/HD 2104	Quantitative Approaches to Community Research *Core outcome: Quantitative and Computational Thinking* *Integrative outcome: Ethical Reasoning*	(3)____
SOC 3204	Social Research Methods (Pre: 1004)	(3)____
UAP 3024	Urban and Regional Analysis	(3)____
HIST 3774	Digital History	(3)____
BIT 3434	Advanced Modeling for Business Analytics (Pre: 2406)	(3)____
BIT 4604	Data Governance, Privacy, and Ethics (2405 or CMDA 2014 or CS 1114) *Core outcome: Critical Thinking in the Humanities* *Integrative outcome: Ethical Reasoning*	(3)____

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

BIT/MGT 4854	Analytics in Action (Pre: CMDA 2014, BDS 2005) *Core outcome: Discourse* *Integrative outcome: Intercultural and Global Awareness*	(3)____

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.

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.