Mathematics—Decision Science Major (53 credit hours)

## Major Requirements*

- MATH 2010, Calculus I, 4 credit hours (semester 1 of freshmen year)
- MATH 2020, Calculus II, 4 credit hours (semester 2 of freshmen year)
- MATH 2120, Introductory Statistics with Applications, 4 credit hours
- MATH 3010, Linear, Algebra, 4 credit hours
- MATH 3020, Calculus III, 4 credit hours
- MATH 3200, Mathematical Models, 3 credit hours
- MATH 4000, Problem Seminar, 2 credit hours
- MATH 4010, Mathematical Statistics, 4 credit hours

One course from:

- MATH 3100, Differential Equations, 3 credit hours
- MATH 3300, Numerical Analysis, 3 credit hours
- MATH 3400, Mathematics of Finance, 3 credit hours
- BSNS 2710, Principles of Management, 3 credit hours
- BSNS 2810, Principles of Marketing, 3 credit hours
- BSNS 3240, Operations Management, 3 credit hours
- BSNS 3510, Supply Chain Management, 3 credit hours
- BSNS 4110, Marketing Research, 3 credit hours
- BSNS 4330, Marketing Management, 3 credit hours
- One 3 hour independent study course combining mathematics and decision science.

Proposed course sequence:
Freshman: BSNS 2710, MATH 2010; MATH 2020, 2120
Sophomore: MATH 3010; BSNS 2810, MATH 3020, 3200
Junior: BSNS 3510, MATH 3100/3300/3400, 4010; BSNS 3240
Senior: BSNS 4110, MATH 4000; BSNS 4330, Independent Study

- MATH 2010, Calculus I, is a Quantitative Reasoning course in the Liberal Arts Program.
- MATH 2120, Introductory Statistics with Applications, is a Quantitative Reasoning course in the Liberal Arts Program.
- MATH 4000, Problem Seminar, is a Speaking Intensive course in the Liberal Arts Program.


## ANDERSON UNIVERSITY

Mathematics: Decision Science Major Suggested Course Sequence

| SEMESTER 1 | SEMESTER 2 | 2018-2019 |  |
| :--- | :--- | :--- | :--- |
| BSNS 2710 | 3 Hours | MATH 2020 | 4 Hours |
| MATH 2010 | 4 Hours | MATH 2120 | 4 Hours |
| ENGL 1100/ENGL 1110 | $3-4$ Hours | ENGL 1120 | 3 Hours |
| LART 1050 | 1 Hour | LART 1100 | 2 Hours |
| Foreign Language | 4 Hours |  |  |


| SEMESTER 3 |  | SEMESTER 4 |  |
| :--- | :--- | :--- | :--- |
| MATH 3010 | 3 Hours | BSNS 2810 | 3 Hours |
| BIBL 2000 | 3 Hours | MATH 3020 | 4 Hours |
| COMM 1000 | MATH 3200 | 3 Hours |  |
| Personal Wellness | 2-Hours | Scientific Ways of Knowing | 4 Hours |


| SEMESTER 5 |  | SEMESTER 6 |  |
| :--- | :--- | :--- | :--- |
| BSNS 3510 | 3 Hours | BSNS 3240 | 3 Hours |
| MATH 3100/3300/3400 | 3 Hours | Civic Ways of Knowing | 3 Hours |
| MATH 4010 | 4 Hours | Global/Intercultural | 3 Hours |
| Social \& Behavioral Ways of Knowing | 3 Hours | Writing Intensive | 3 Hours |


\left.| SEMESTER 7 |  | 3 Hours | BSNS 4330 |
| :--- | :--- | :--- | :--- |$\right]$

Decision science is a discipline that is concerned with using mathematics to make appropriate decisions when confronted with complex problems. It can deal with optimizing the design or operation of systems involving machinery, materials, money and even people.

The Mathematics-Decision Science major allows students to enhance a Mathematics major with courses from the Falls School of Business, without requiring a double major. The resulting major is more focused than a traditional Mathematics major, yet still versatile for a broad range of career paths fields throughout business, industry, and government.

