

Year 2**Fall – Semester 3 (credit hours: 14)**

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|------|--|-----|---------------------------|
| MATH | 2335 | Transition to Advanced Mathematics | 3 | |
| MATH | 2441 | Mathematical Computation | 4 | |
| | | LD UCA Core ¹ | 3 | core link |
| | | LD UCA Core (Natural Sciences) ^{1, 2} | 4 | core link |

Spring – Semester 4 (credit hours: 16/17)

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|------|---|--------|----------|
| MATH | 2471 | Calculus III | 4 | MATH2603 |
| MATH | 3320 | Linear Algebra (UD UCA Core: I) | 3 | |
| MATH | 3331 | Differential Equations (UD UCA Core: C) | 3 | |
| | | Program Requirement ² | 3 or 4 | |
| | | Minor Field ^{3, 4} | 3 | |

Year 3**Fall – Semester 5 (credit hours: 15/16)**

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|----------------------|--|--------|---------------------------|
| MATH | 4371 | Introduction to Probability (UD UCA Core: R) | 3 | |
| MATH | 4315 4340 4373 | Partial Differential Equations or Numerical Methods or Regression Analysis | 3 | |
| | | LD UCA Core ¹ | 3 | core link |
| | | Program Requirement (if needed) or General Elective ² | 3 or 4 | |
| | | Minor Field ^{3, 4} | 3 | |

Spring – Semester 6 (credit hours: 15)

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|------|-----------------------------|-----|---------------------------|
| MATH | 3311 | Statistical Methods | 3 | |
| | | MATH Major Elective | 3 | |
| | | LD UCA Core ¹ | 3 | core link |
| | | Minor Field ^{3, 4} | 3 | |
| | | Minor Field ^{3, 4} | 3 | |

Year 4**Fall – Semester 7 (Credit hours: 15)**

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|-----|-------------------------------|-----|------|
| | | MATH Major Elective | 3 | |
| | | General Elective ⁴ | 4 | |
| | | General Elective ⁴ | 3 | |
| | | Minor Field ^{3, 4} | 3 | |
| | | Minor Field ^{3, 4} | 3 | |

Spring – Semester 8 (Credit hours: 13/15)

| SUBJ | NUM | TITLE | SCH | ACTS |
|------|------|--|--------|------|
| MATH | 4306 | Modeling and Simulation (UD UCA Core: Z) | 3 | |
| | | General Electives ⁴ | 3 | |
| | | General Electives ^{4, 5} | 1 or 3 | |
| | | Minor Field ^{3, 4} | 3 | |
| | | Minor Field ^{3, 4} | 3 | |

 SIGNED – DEPARTMENT CHAIR

 DATE

 SIGNED – COLLEGE DEAN

 DATE

To be completed by the advisor when an Eight-Semester plan is accepted by the student:

If applicable, has student selected a minor? Type “x” as appropriate. No Yes

If “yes,” specify: _____

Notes

¹ See appropriate choices, alternatives, or substitutions under “LD UCA Core” in the *Undergraduate Bulletin*. Prior to completion of 30 semester hours, a student must complete a LD UCA Core course designated as a First-Year Seminar (FYS) in Critical Inquiry, Diversity, or Responsible Living.

The student will also need to complete major, minor, or general elective courses designated as fulfilling the upper-division and capstone requirements of the UCA Core. See annotations in this Academic Map for courses in the major that will fulfill UD UCA Core requirements; for others, consult the *Undergraduate Bulletin* and your academic advisor.

² Program Requirements: PHYS 1441 and PHYS 1442 OR PHYS 1410 and PHYS 1420 OR CHEM 1450 and PHYS 1451 OR ECON 2320 and ECON 2321. Students who use the first course of the sequence for a LD UCA Core Critical Inquiry requirement (Physical Science or Social Science) will take an additional general elective instead of the program requirement in their fifth semester.

³ This Academic Plan includes 24 credit hours in the Minor field of study. Minor requirements range from 15–27 credit hours, so the student will need to adapt the number of general elective and minor elective credit hours in this plan as needed, depending upon the chosen minor field. Depending on a student’s choice of minor and special degree requirements, the total number of credit-hours taken may exceed the total number of credit hours required to complete the program.

⁴ The applied mathematics major requires 24 hours of upper-division courses. The additional 16 upper-division credit hours needed to complete the degree may be met by courses in the minor field and by additional math or general electives.

⁵ Students will need to adjust the number of general elective credit hours depending on the sequence chosen to meet the program requirements.