

**MATHEMATICS (APPLIED MATH & SCIENTIFIC COMPUTATION TRACK) PROPOSED PROGRAM OF STUDY**

|                  |  | Fall Semester  |                                |      | Spring Semester |                                       |                |    |
|------------------|--|----------------|--------------------------------|------|-----------------|---------------------------------------|----------------|----|
|                  |  | Course         | Course Title                   | Hrs. | Course          | Course Title                          | Hrs.           |    |
| <b>Freshman</b>  |  | MA 125         | Calculus 1                     | 4    | MA 236          | Calculus 2                            | 4              |    |
|                  |  | EH 101         | English Composition I          | 3    | EH 102          | English Composition II                | 3              |    |
|                  |  | HY 101         | Western Civilization I         | 3    | HY 102          | Western Civilization II               | 3              |    |
|                  |  | ARH 101        | The Art Experience             | 3    | CS 201          | Intro. to Object Oriented Programming | 4              |    |
|                  |  | CS 101         | Computing Fundamentals         | 3    |                 |                                       |                |    |
|                  |  |                | Total Credits:                 |      | 16              |                                       | Total Credits: |    |
| <b>Sophomore</b> |  | MA 227         | Calculus 3                     | 4    | MA 252          | Intro. to Differential Equations      | 4              |    |
|                  |  | EH 216         | Intro. to Literature           | 3    | MA 361          | Intro. to Mathematical Modeling       | 3              |    |
|                  |  | MA 360         | Scientific Programming         | 3    | PHL 100         | Intro. to Philosophy                  | 3              |    |
|                  |  | CS 302         | Object Oriented Programming    | 4    |                 |                                       |                |    |
|                  |  | PH 221         | General Physics I              | 4    | PH 222          | General Physics II                    | 4              |    |
|                  |  |                |                                |      | CS 250          | Discrete Structures                   | 3              |    |
|                  |  | Total Credits: |                                | 18   |                 | Total Credits:                        |                | 16 |
| <b>Junior</b>    |  | MA 260         | Introduction to Linear Algebra | 3    | MA Elective     | Math Elective                         | 3              |    |
|                  |  | MA Sequence    | Math Sequence                  | 3    | MA Sequence     | Math Sequence                         | 3              |    |
|                  |  | CM 101         | Public Speaking                | 3    | EC 210          | Principles of Microeconomics          | 3              |    |
|                  |  | CS 303         | Algorithms & Data Structures   | 4    | CS 334          | Internetworking & Intranets           | 3              |    |
|                  |  | PY 101         | Intro. to Psychology           | 3    | PHL 115         | Contemporary Moral Issues             | 3              |    |
|                  |  |                |                                |      |                 |                                       |                |    |
|                  |  | Total Credits: |                                | 16   |                 | Total Credits:                        |                | 15 |
| <b>Senior</b>    |  | MA 485         | Intro. to Probability          | 3    | MA Elective     | Math Elective                         | 3              |    |
|                  |  | XXX            | Elective                       | 3    | XXX             | General Electives                     | 10             |    |
|                  |  | CS 410         | Database Management Systems    | 3    |                 |                                       |                |    |
|                  |  | XXX            | General Electives              | 6    |                 |                                       |                |    |
|                  |  |                |                                |      |                 |                                       |                |    |
|                  |  | Total Credits: |                                | 15   |                 | Total Credits:                        |                | 13 |

- A technical minor is required (business, science, or engineering). The above assumes a computer science minor.