# College of Science, Department of Mathematics
## Mathematics Minor
For students graduating in calendar year 2021

### I. Required Mathematics Courses (17 credits)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1225: Calculus of a Single Variable</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1226: Calculus of a Single Variable</td>
<td>4</td>
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<tr>
<td>MATH 2114: Introduction to Linear Algebra (Pre: 1225 or 1226)</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2204: Intro Multivariable Calculus or CMDA 2005: Integrated Quantitative Sci. Pre: MATH 1226 (C-) Co: MATH 2114</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2214: Intro Differential Equations Pre: (1114 or 1114H or 2114 or 2114H), (1206 or 1226) or CMDA 2006: Integrated Quantitative Sci. Pre: 2005 (C-), (MATH 2114 (C-) or 2114H (C-))</td>
<td>3</td>
</tr>
</tbody>
</table>

### II. Mathematics Electives (9 credits)

Any 9 credits of MATH courses numbered 3000 or higher with the following exceptions:
 MATH 2534: Intro to Discrete Mathematics Pre: CS 1114 (C) or ECE 1574 (C-) (3) may be used.

- The following may not be used:
  - MATH 3054: Programming for Mathematical Problem Solving
  - MATH 4044: History of Mathematics
  - MATH 4625, 4626: Mathematics for Secondary Teachers
  - MATH 4644: Secondary School Mathematics with Technology
  - MATH 4654: Capstone Thesis and Seminar
  - MATH 4664: Senior Math Education Seminar
  - MATH 4974: Independent Study
  - MATH 4994: Undergraduate Research
- MATH 4984 Special Study may be used only with the permission of the Associate Chair.
- CMDA 3605, 3606: Mathematical Modeling: Methods and Tools Pre: CS 1114 (C) or MATH 3054), MATH 2114 (C-) or MATH 2114H (C-) or MATH 2405H (C-), MATH 2204 (C-) or MATH 2204H or MATH 2406H or CMDA 2006), (MATH 2214 (C-) or MATH 2214H (C-) or MATH 2406H (C-) or CMDA 2006 (C-) may be used.
- CMDA 4604: Intermediate Topics in Mathematical Modeling Pre: 3606 may be used.

**Note:** Enrollment opportunities in some courses may be limited for nonmajors.

### III. Minimum Credits
At least 26 credits required.

### IV. Minimum GPA
The courses used to satisfy the minor requirements must be completed with a combined GPA or 2.0 or higher.

**Note:** Unless specified, course duplications or non-mathematics substitutions are not acceptable in lieu of the specific courses indicated above. Some courses listed on this checksheet may have prerequisites; please consult the University Course Catalog or check with your advisor.