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>
</tr>
<tr>
<td>MATH 2114: Introduction to Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2204: Intro Multivariable Calculus</td>
<td>3</td>
</tr>
<tr>
<td>MATH 2214: Intro Differential Equations</td>
<td>3</td>
</tr>
</tbody>
</table>

II. Mathematics Electives (9 credits)

Any 9 hours of MATH courses numbered 3000 or higher with the following exceptions.

- MATH 2534* Introduction to Discrete Mathematics (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 by permission** of the Math Undergraduate Policy & Curriculum Committee. Contact math advising.
- CMDA 3605-3606: Mathematical Modeling: Methods and Tools* **may** be used.
- CMDA 4604: Intermediate Topics in Mathematical Modeling* **may** be used.

III. Minimum Credits

At least 26 credits required.

All courses taken toward a math minor must be taken in A-F grade mode. To graduate with a Virginia Tech undergraduate degree, a minimum of 25% of total credits for majors and minors must be taken at Virginia Tech. This means at least 7 credits for the math minor must be taken at Virginia Tech.

IV. Minimum GPA

The courses used to satisfy the minor requirements must be completed with a combined GPA of 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 and/or corequisites; please consult the University Course Catalog.*