# 3-Year Tentative Course Plan for Mathematics Undergraduate Students

## LOWER LEVEL CORE COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Required For</th>
<th>FS15</th>
<th>SP16</th>
<th>FS16</th>
<th>SP17</th>
<th>FS17</th>
<th>SP18</th>
<th>FS18</th>
<th>SP19</th>
</tr>
</thead>
<tbody>
<tr>
<td>1250</td>
<td>Introduction to Computing</td>
<td>Math, CS, Physics, BSED(Math)</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
</tr>
<tr>
<td>2020</td>
<td>Introduction to Differential Equations</td>
<td>Math, Physics, Eng, BSED(Math)</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
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<tr>
<td>2450</td>
<td>Elementary Linear Algebra</td>
<td>Math, CS, BS(Phys)1, BS(Phys)2, BSED(Math)</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
<td>D,E</td>
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<td>D,E</td>
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## UPPER LEVEL COURSE OFFERINGS

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Required For</th>
<th>FS15</th>
<th>SP16</th>
<th>FS16</th>
<th>SP17</th>
<th>FS17</th>
<th>SP18</th>
<th>FS18</th>
<th>SP19</th>
</tr>
</thead>
<tbody>
<tr>
<td>3000</td>
<td>Discrete Structures</td>
<td>Math, CS, BSED(Math)</td>
<td>E</td>
<td>D</td>
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<td>D</td>
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<tr>
<td>4100</td>
<td>Real Analysis I</td>
<td>Math, BSED(Math), MA</td>
<td>D</td>
<td>D</td>
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<td>D</td>
<td>E</td>
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<tr>
<td>4160</td>
<td>Complex Analysis I</td>
<td>BS(Math), MA</td>
<td>D</td>
<td>E</td>
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<td>E</td>
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<tr>
<td>4200</td>
<td>Mathematical Statistics I</td>
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<tr>
<td>4400</td>
<td>Introduction to Abstract Algebra</td>
<td>Math</td>
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<tr>
<td>4450</td>
<td>Linear Algebra</td>
<td>BS(Math), MA</td>
<td>E</td>
<td>D</td>
<td>E</td>
<td>D</td>
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<td>D</td>
<td>E</td>
<td>D</td>
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<tr>
<td>4660, 4670, or equal</td>
<td>Geometry</td>
<td>BSED(Math)</td>
<td>E</td>
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<td>E</td>
<td>E</td>
<td>E</td>
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<td>E</td>
<td>D</td>
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</tr>
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</table>

Other 4000 math electives will be offered as resources are available. This schedule does not include possible summer courses.

**Code:**
- Math = BA or BS in Math, CS = BS in Computer Science, MA = MA in Mathematics
- BSED(Math) = BS in Education – Mathematics, Chem = BA or BS in Chemistry, Physics = BA or BS in Physics,
- BS(Phys)1 = BS in Physics – General Physics Option, BS(Phys)2 = BS in Physics – Astrophysics Option,
- BS(Phys)3 = BS in Physics - Engineering Physics Option,
- Eng = UMSL/Washington University Joint Engineering Program
- D = Day course, E = Evening course

The above is a tentative schedule of courses that will be offered (primarily for the mathematics major) over the next few semesters. It may be subject to change based on availability of instructors to teach specific courses. Students should check the Bulletin for complete degree requirements.