Transfer Pathway Map for Math or Pre-Engineering

Students who complete this program are prepared to pursue the bachelor’s degree in mathematics or mathematics education. Theoretical mathematicians develop new principles and relationships. Applied mathematicians develop mathematical approaches to solve practical problems in business, government, engineering, and the various sciences.

**Fall/Spring Example Schedule for Full-Time Students**

<table>
<thead>
<tr>
<th>Semester: 1</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1101</td>
<td>3</td>
</tr>
<tr>
<td><strong>MATH 1113</strong></td>
<td>4</td>
</tr>
<tr>
<td>PHED Course</td>
<td>1</td>
</tr>
<tr>
<td>SGSC 1000</td>
<td>1</td>
</tr>
<tr>
<td><strong>CHEM 1211k/BIOL 2107k</strong></td>
<td>3</td>
</tr>
<tr>
<td>Area B/C/E Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

**USG* Requirement:**
Area A courses must be taken in first 30 hours.

<table>
<thead>
<tr>
<th>Semester: 2</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1102</td>
<td>3</td>
</tr>
<tr>
<td><strong>MATH 2253/2254</strong></td>
<td>4</td>
</tr>
<tr>
<td>HLTH 1103</td>
<td>2</td>
</tr>
<tr>
<td>CHEM 1212k/BIOL 2108k</td>
<td>4</td>
</tr>
<tr>
<td>PHED Course</td>
<td>1</td>
</tr>
<tr>
<td>Area B/C/E Course</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

**USG* Requirement:**
Area A course must be taken in first 30 hours.

<table>
<thead>
<tr>
<th>Semester: 3</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1111K/2211K</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2254/2255</td>
<td>4</td>
</tr>
<tr>
<td>Area D Option</td>
<td>4</td>
</tr>
<tr>
<td>POLS 1101</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>15</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semester: 4</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 1112K/2212K</td>
<td>4</td>
</tr>
<tr>
<td>HIST 2111/2112</td>
<td>3</td>
</tr>
<tr>
<td>Area B/C/E Course</td>
<td>3</td>
</tr>
<tr>
<td>Area C ENGL or HUMN</td>
<td>3</td>
</tr>
<tr>
<td>Area B/C/E Course</td>
<td>3</td>
</tr>
<tr>
<td>DVRS 1101</td>
<td>1</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>17</strong></td>
</tr>
</tbody>
</table>

**Total: 64 hours**

**Sequence Alert!!**
PHYS 1111K/2211K are only offered in Fall, and PHYS 1112K/2212K are only offered in Spring.

Possible career opportunities after additional education include: actuary, statistician, economist, operations research analyst, mathematical technician, applied mathematician, theoretical mathematician, math educator, and numerous engineering disciplines (aerospace, biomedical, chemical and biomolecular, civil, computer, electrical, mechanical, etc.). Please see mynextmove.org for more information on possible career options with salary information.

*University System of Georgia

** *(Not including SGSC 1000 or support courses)*
ASSOCIATE OF SCIENCE: Math/Engineering Pathway Checklist

Area A – Essential Skills
ENGL 1101 _____ required
ENGL 1102 _____ required
MATH 1113 _____ required
*Extra hour used in area F Area A total hours 10hrs

Area B – Institutional Options
DVRS 1101 _____ required
Select one of the following:
ANTH 1102 _____ HIST 1111 _____
ANTH 1104 _____ HIST 1112 _____
COMM 1100 _____ POLS 2401 _____
COMM 1110 _____ SOCI 2501 _____
COMM 2000 _____ SABR 2001 _____ 4hrs
COMM 2010 _____
Area B total hours

Area C – Humanities/ Fine Arts
Select one of the following:
ENGL 2111 _____ ENGL 2121 _____
ENGL 2112 _____ ENGL 2122 _____
HUMN 2111 _____ ENGL 2131 _____
HUMN 2112 _____ ENGL 2132 _____
Select one of the following:
ARTS 2205 _____
ENGL 2111 _____
ENGL 2112 _____
ENGL 2121 _____
ENGL 2122 _____
ENGL 2131 _____ Any 3 hour foreign
ENGL 2132 _____ Language _____
HUMN 2111 _____
HUMN 2112 _____
MUSI 1100 _____
THEA 1100 _____
PHIL 2010 _____ Area C total hours 6hrs

Area D – Science, Mathematics, Technology
Choose one of the two series:
Biol 2107K _____ & BIOL 2108K _____
CHEM 1211 K _____ & CHEM 1212 K _____
Select one of the following:
ASTR 1010/1010L _____ MATH 2253 _____
ASTR 1020/1020L _____ MATH 2254 _____
BIOL 2000/2000L _____ MATH 2255 _____
CHEM 1211K _____ SCIE 1111/1111L _____
CHEM 1212K _____ SCIE 1121/1121L _____ 12hrs
PHSC 1011/1011L _____
*Extra hour used in area F Area D total hours

Area E – Social Studies
POLS 1101 _____ required
Select one of the following:
HIST 2111 _____
HIST 2112 _____
Select two of the following:
ECON 2105 _____ POLS 2200 _____
ECON 2106 _____ POLS 2401 _____
HIST 1121 _____ PSYC 1101 _____
HIST 1122 _____ PSYC 2101 _____
HIST 2100 _____ PSYC 2201 _____
HIST 2111 _____ PSYC 2103 _____
HIST 2112 _____ SOCI 1101 _____
HIST 2200 _____ SOCI 1160 _____
HIST 2220 _____ SOCI 2293 _____
POLS 2100 _____ 12hrs
Area E total hours

Area F-Courses Related to the Program of Study
PHYS 1111K/11112K _____ required
PHYS 2211K/22112K _____ required
MATH 2253 or MATH 2254 _____ required
MATH 2254 or MATH 2255 _____ required
Two excess hours from Area A and Area D = 2 hours 18hrs
Area F total hours

Physical Education Requirements
HLTH 1103 _____ required 4hrs
Physical Ed _____ two hours Physical Ed. total hours

Comments:
If planning to pursue Engineering, take PHYS 2111 and 2212.

If HIST 2111/2112 or POLS 1101 is taken at a non-USG institution, Georgia history and government exams must be taken to fulfill requirements.