

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.

TOTAL: 60 hours

(Not including SGSC 1000, support courses or PE)

First Year

| Fall Semester | Hrs |
|---|-----------|
| ENGL 1101 - Composition I | 3 |
| MATH 1113 - Pre-Calculus | 4 |
| Area D Sequence Course 1 | 4 |
| PHED Course | 1 |
| SGSC 1000 - South Georgia State College Orientation and Success | 1 |
| Area B/C/E Course | 3 |
| TOTAL | 16 |

| Spring Semester | Hrs |
|--------------------------------------|-----------|
| ENGL 1102 - Composition II | 3 |
| HLTH 1103-Contemporary Health Issues | 2 |
| MATH 2253 - Calculus I | 4 |
| Area D Sequence Course 2 | 4 |
| PHED Course | 1 |
| Area B/C/E Course | 3 |
| TOTAL | 17 |

Milestones:

Math and English courses require a grade of "C" or better and must be finished within the first 30 hours. First-year overall GPA should be 2.0 or higher.

Milestone Classes MATH 1113 and MATH 2253 (need a C or higher to do well in the program).

Focus courses are taken within the first 30 hours to give a feel of the chosen pathway

Required for all First Time, Full Time Students

Second Year

| Fall Semester | Hrs |
|--------------------------------------|-----------|
| PHYS 2211K - Principles of Physics I | 4 |
| MATH 2254 - Calculus II | 4 |
| Area B/C/E Course | 4 |
| POLS 1101- American Government | 3 |
| DVRS 1101-Topics in Diversity | 1 |
| TOTAL | 16 |

| Spring Semester | Hrs |
|---------------------------------------|-----------|
| PHYS 2212K - Principles of Physics II | 4 |
| HIST 2111/2112 | 3 |
| MATH 2255 - Calculus III | 3 |
| Area C ENGL or HUMN | 3 |
| Area B/C/E Course | 3 |
| TOTAL | 16 |

Milestones:

GPA should be 2.5 or higher, if less, consult an academic advisor for other major options.

If GPA is less than 2.75, a student is no longer competitive for transfer to a four-year program.

Milestone Classes MATH 2254/MATH 2255 (need a C or higher to do well in the program).

Sequence Alert!! PHYS 2211K and MATH 2254 is only offered in Fall, and PHYS 2212K and MATH 2255 is 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.

Name _____ ID Number _____ Date _____

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 _____ |
| COMM 2010 _____ | |

4hrs

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 _____

6hrs

Area C total hours

Physical Education Requirements

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

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 _____ |
| PHSC 1011/1011L _____ | |

12hrs

*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/1112K _____ required
 PHYS 2211K/2212K _____ 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

Completed Areas

| | |
|--|--|
| Area A (Must have C's or better) | |
| Area B | |
| Area C | |
| Area D | |
| Area E | |
| Area F (Must have C's or better) | |
| Phys Ed | |

| | |
|------------------------|----------------------|
| GA History Requirement | GA Gov't Requirement |
| HIST 2111 or 2112 | POLS 1101 |

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.

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