

Transfer Pathway Map for Physics or Pre-Engineering

Students who complete this program are prepared to pursue the bachelor's degree in physics or engineering. Through systematic observation and experimentation, physicists describe in mathematical terms the structure of the universe and the interaction of matter and energy. Physicists develop theories that describe the fundamental forces of nature. Most physicists work in research and development. Some do basic research to increase scientific knowledge while others do applied research and help develop new products.

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 D option	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
Area B/C/E Course	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 PHYS 2211K/PHYS 2212K (need a C or higher to do well in the program).

Sequence Alert!! PHYS 2211K is only offered in Fall, and PHYS 2212K is only offered in Spring.

Possible career opportunities after additional education include: astronomers, acoustical physicists, astrophysicists, biophysicists, geophysicists, health/medical physicists, nuclear physicists, optical physicists, and science educators in addition to 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: **Physics/Engineering** Pathway Checklist

Area A – Essential Skills

ENGL 1101 _____ required
 ENGL 1102 _____ required
 MATH 1113 _____ required

10hrs

*Extra hour used in area F Area A total hours

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

4hrs

Physical Ed. total hours

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 _____

12 hrs

*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 2211K _____ required
 PHYS 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: PHYS 2211K is only offered in fall, and PHYS 2212K is only offered in spring.