



Associate of Science: Physics Pathway Map

This academic map is a suggested two-year schedule of courses based on degree requirements in the SGSC catalog. **Missing milestones could delay your program.**

Name _____
ID# _____

FRESHMAN FALL		FRESHMAN SPRING		FRESHMAN SUMMER	
Course	Hours	Course	Hours	Courses to finish out the year	Hours
<input type="checkbox"/> ENGLISH COMPOSITION I (Communicating in Writing) ENGL 1101 requires a grade of "C" or better and must be finished within the first 30 hours	3	<input type="checkbox"/> ENGLISH COMPOSITION II (Communicating in Writing) ENGL 1102 requires a grade of "C" or better and must be finished within the first 30 hours	3		
<input type="checkbox"/> Pre-calculus (Mathematics and Quantitative Skills) MATH 1113 requires a grade of "C" or better and must be finished within the first 30 hours need a C or higher to do well in the program	4	<input type="checkbox"/> Contemporary Health Issues HLTH 1103	2		
<input type="checkbox"/> Principles of Chemistry I (Technology, Mathematics & Sciences) CHEM 1211K	4	<input type="checkbox"/> Calculus I (Field of Study) MATH 2253 need a C or higher to do well in the program	4	<input type="checkbox"/> Explore Volunteer Service Opportunities. <input type="checkbox"/> Join a club or organization. <input type="checkbox"/> Attend an academic or cultural event related to your field of study. Milestones: GPA should be 2.0 or higher.	
<input type="checkbox"/> Theatre Appreciation (Arts, Humanities & Ethics) THEA 1100	3	<input type="checkbox"/> American Government (Political Science and U.S. History) POLS 1101 Course to meet Legislative Requirements	3		
<input type="checkbox"/> South Georgia State College Orientation and Success SGSC 1000 Required for all First Time, Full Time Students	1	<input type="checkbox"/> Principles of Chemistry II (Technology, Mathematics & Sciences) CHEM 1212K	4		
		<input type="checkbox"/> Fitness for Life PHED 1000	2		
TOTAL	15	TOTAL	18	TOTAL	
RUNNING TOTAL	15	RUNNING TOTAL	33	RUNNING TOTAL	

SOPHOMORE FALL		SOPHOMORE SPRING		SOPHOMORE SUMMER	
Course	Hours	Course	Hours		
<input type="checkbox"/> Principles of Physics I (Field of Study) PHYS 2211K need a C or higher to do well in the program	4	<input type="checkbox"/> Principles of Physics II (Field of Study) PHYS 2212K need a C or higher to do well in the program	4		
<input type="checkbox"/> Calculus II (Field of Study) MATH 2254	4	<input type="checkbox"/> Calculus II (Technology, Mathematics & Sciences) MATH 2255	4		
<input type="checkbox"/> A Survey of the Humanities in the West I (Arts, Humanities & Ethics) HUMN 2111	3	<input type="checkbox"/> Economics of Financial Literacy (Social Sciences) ECON 1101	3	Graduation in May! <input type="checkbox"/> Research career options and education required Milestones: Apply to Engineering program at South Georgia State College.	
<input type="checkbox"/> American Civilization I (Political Science and U.S. History) HIST 2111 Course to meet Legislative Requirements	3	<input type="checkbox"/> Public Speaking (Institutional Priority) COMM 1110	3		
<input type="checkbox"/> Introduction to General Psychology (Social Sciences) PSYC 1101	3	<input type="checkbox"/> Topics in Diversity (Institutional Priority) DVRS 1101	1		
TOTAL	17	TOTAL	15		
RUNNING TOTAL	50	RUNNING TOTAL	65	RUNNING TOTAL	

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. 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).

This map is not a substitute for academic advisement—contact your advisor if you have any questions about scheduling or about your degree requirements. Also, see the current undergraduate catalog for a complete list of requirements, electives, and pre-requisites. This is a typical schedule. Depending on course availability, other courses in the IMPACTS domain may be substituted. Discuss any substitutions with your advisor. (FoS Field of Study)

The USG core curriculum, Core IMPACTS, is designed to ensure that students acquire essential knowledge in foundational academic domains and develop career-ready competencies. There are seven Core IMPACTS domains. As presented in the table below, IMPACTS is a mnemonic to emphasize the impact of the overall core curriculum.

Core IMPACTS
Institutional Priority
Mathematics & Quantitative Skills
Political Science and U.S. History
Arts, Humanities & Ethics
Communicating in Writing
Technology, Mathematics & Sciences
Social Sciences

Core IMPACTS domain (Shorthand)	Courses (Credit Hours)			
Institutional Priority "Contributing to a Global Community" (Institution) Credit Hours required 4	ANTH 1102 (3) ANTH 1104 (3) COMM 1100 (3) COMM 1110 (3)	COMM 2000 (3) COMM 2010 (3) DVRS 1101 (1)	HIST 1111 (3) HIST 1112 (3) HIST 2220 (3)	POLS 2401 (3) SOCI 2501 (3) Or any 3-hour SABR course
Mathematics and Quantitative Skills (Mathematics) Credit Hours required 3	MATH 1001 (3) MATH 1101 (3)	MATH 1111 (3) MATH 1113 (4)	MATH 1401 (3)	MATH 2253 (4)
Political Science and U.S. History (Citizenship) Credit Hours required 6	HIST 2111 (3)	HIST 2112 (3)	POLS 1101 (3)*	
Arts, Humanities & Ethics (Humanities) Credit Hours required 6	ARTS 2205 (3) COMM 1100 (3) COMM 1110 (3) COMM 2000 (3) COMM 2010 (3)	ENGL 2111 (3) ENGL 2112 (3) ENGL 2121 (3) ENGL 2122 (3)	ENGL 2131 (3) ENGL 2132 (3) HUMN 2111 (3) HUMN 2112 (3)	MUSI 1100 (3) PHIL 2010 (3) THEA 1100 (3) Any 3-hr. Foreign Language course
Communicating in Writing (Writing) Credit Hours required 6	ENGL 1101 (3)*	ENGL 1102 (3)*		
Technology, Mathematics & Sciences (STEM) Credit Hours required 11	ASTR 1010/1010L (4) ASTR 1020/1020L (4) BIOL 1010K (4) BIOL 1020K (4) BIOL 2000/2000L (4) BIOL 2107K (4) BIOL 2108K (4)	CHEM 1151K (4) CHEM 1152K (4) CHEM 1211K (4) CHEM 1212K (4) CSCI 1301 (4) CSCI 1302 (4)	MATH 1113 (4) MATH 1401 (3) MATH 2253 (4) MATH 2254 (4) MATH 2255 (4) PHSC 1011/1011L (4)	PHYS 1111K (4) PHYS 1112K (4) PHYS 2211K (4) PHYS 2212K (4) SCIE 1111/1111L (4) SCIE 1121/1121L (4)
Social Sciences (Social Sciences) Credit Hours required 6	ECON 1101 (3) ECON 2105 (3) ECON 2106 (3) HIST 1111 (3) HIST 1112 (3) HIST 1121 (3)	HIST 1122 (3) HIST 2100 (3) HIST 2111 (3) HIST 2112 (3) HIST 2200 (3) HIST 2220 (3)	POLS 2100 (3) POLS 2200 (3) POLS 2401 (3) PSYC 1101 (3) PSYC 2101 (3) PSYC 2103 (3)	PSYC 2201 (3) SOCI 1101 (3) SOCI 1160 (3) SOCI 2293 (3) SOCI 2501 (3)

*required for all pathways