



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 (C) 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 (C) ENGL 1102 requires a grade of "C" or better and must be finished within the first 30 hours	3				
<input type="checkbox"/> Pre-calculus (M) 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 (T) CHEM 1211K	4		<input type="checkbox"/> Calculus I (FoS) 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 (A) THEA 1100	3		<input type="checkbox"/> American Government (P) 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 (T) 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		
<input type="checkbox"/> Principles of Physics I (FoS) PHYS 2211K need a C or higher to do well in the program	4		<input type="checkbox"/> Principles of Physics II (FoS) PHYS 2212 K need a C or higher to do well in the program	4		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"/> Calculus II (FoS) MATH 2254	4		<input type="checkbox"/> Calculus II (T) MATH 2255	4				
<input type="checkbox"/> A Survey of the Humanities in the West I (A) HUMN 2111	3		<input type="checkbox"/> Global Issues(S) POLS 2401	3				
<input type="checkbox"/> American Civilization I (P) HIST 2111 Course to meet Legislative Requirements	3		<input type="checkbox"/> Public Speaking (I) COMM 1110	3				
<input type="checkbox"/> Introduction to General Psychology (S) PSYC 1101	3		<input type="checkbox"/> Topics in Diversity (I) DVRS 1101	1				
TOTAL	17		TOTAL	15			TOTAL	
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 area 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 areas and develop career-ready competencies. There are seven Core IMPACTS areas. 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 area (Shorthand)	Courses (Credit Hours)			
Institutional Priority "Contributing to a Global Community" (Institution) Credit Hours required 4	ANTH 1102 (3)	COMM 2000 (3)	HIST 1111 (3)	POLS 2401 (3)
	ANTH 1104 (3)	COMM 2010 (3)	HIST 1112 (3)	SOCI 2501 (3)
	COMM 1100 (3)	DVRS 1101 (1)	HIST 2220 (3)	Or any 3-hour SABR course
	COMM 1110 (3)			
Mathematics and Quantitative Skills (Mathematics) Credit Hours required 3	MATH 1001 (3)	MATH 1111 (3)	MATH 1401 (3)	MATH 2253 (4)
	MATH 1101 (3)	MATH 1113 (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)	ENGL 2111 (3)	ENGL 2131 (3)	MUSI 1100 (3)
	COMM 1100 (3)	ENGL 2112 (3)	ENGL 2132 (3)	PHIL 2010 (3)
	COMM 1110 (3)	ENGL 2121 (3)	HUMN 2111 (3)	THEA 1100 (3)
	COMM 2000 (3)	ENGL 2122 (3)	HUMN 2112 (3)	Any 3-hr. Foreign Language course
	COMM 2010 (3)			
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)	CHEM 1151K (4)	MATH 1113 (4)	PHYS 1111K (4)
	ASTR 1020/1020L (4)	CHEM 1152K (4)	MATH 1401 (3)	PHYS 1112K (4)
	BIOL 1010K (4)	CHEM 1211K (4)	MATH 2253 (4)	PHYS 2211K (4)
	BIOL 1020K (4)	CHEM 1212K (4)	MATH 2254 (4)	PHYS 2212K (4)
	BIOL 2000/2000L (4)	CSCI 1301 (4)	MATH 2255 (4)	SCIE 1111/1111L (4)
	BIOL 2107K (4)	CSCI 1302 (4)	PHSC 1011/1011L (4)	SCIE 1121/1121L (4)
	BIOL 2108K (4)			
Social Sciences (Social Sciences) Credit Hours required 6	ECON 2105 (3)	HIST 2100 (3)	POLS 2100 (3)	PSYC 2201 (3)
	ECON 2106 (3)	HIST 2111 (3)	POLS 2200 (3)	SOCI 1101 (3)
	HIST 1111 (3)	HIST 2112 (3)	POLS 2401 (3)	SOCI 1160 (3)
	HIST 1112 (3)	HIST 2200 (3)	PSYC 1101 (3)	SOCI 2293 (3)
	HIST 1121 (3)	HIST 2220 (3)	PSYC 2103 (3)	SOCI 2501 (3)
	HIST 1122 (3)			

*required for all pathways