




# Bachelor of Science in Mechanical Engineering Technology Map

This academic map is a suggested four-year schedule of courses based on degree requirements in the SGSC catalog. *Missing milestones could delay your program. This concentration requires close consultation with advisor*

Name \_\_\_\_\_  
ID# \_\_\_\_\_

FRESHMAN FALL		FRESHMAN SPRING		FRESHMAN SUMMER		
Course	Hours	Course	Hours	Courses to finish out the year	Hours	
<input type="checkbox"/> <b>ENGLISH COMPOSITION I</b> ENGL 1101 requires a grade of "C" or better and must be finished within the first 30 hours	3	<input type="checkbox"/> <b>ENGLISH COMPOSITION II</b> ENGL 1102 requires a grade of "C" or better and must be finished within the first 30 hours	3			
<input type="checkbox"/> <b>Pre-calculus</b> MATH 1113 requires a grade of "C" or better and must be finished within the first 30 hours	4	<input type="checkbox"/> <b>Principles of Microeconomics</b> ECON 2106	3			
<input type="checkbox"/> <b>Principles of Chemistry I</b> CHEM 1211K	4	<input type="checkbox"/> <b>Calculus I</b> MATH 2253 (MATH 1113 is a prerequisite) 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"/> <b>Introduction to Engineering</b> ENGR 2010 need a C or higher to do well in the program	2	<input type="checkbox"/> <b>Engineering Graphics for Design</b> ENGR 2500	2			
<input type="checkbox"/> <b>South Georgia State College Orientation and Success</b> SGSC 1000 Required for all First Time, Full Time Students	1	<input type="checkbox"/> <b>American Government</b> POLS 1101 Course to meet Legislative Requirements	3			
<input type="checkbox"/> <b>Theatre Appreciation</b> THEA 1100	3	<input type="checkbox"/> <b>Fitness for Life</b> PHED 1000	2			
<b>TOTAL</b>	17	<b>TOTAL</b>	17		<b>TOTAL</b>	
<b>RUNNING TOTAL</b>	17	<b>RUNNING TOTAL</b>	34	<b>RUNNING TOTAL</b>		
SOPHOMORE FALL		SOPHOMORE SPRING		SOPHOMORE SUMMER		
<input type="checkbox"/> <b>Principles of Physics I</b> PHYS 2211K only offered in Fall (MATH 2253 is a prerequisites) (need a C or higher to do well in the program)	4	<input type="checkbox"/> <b>Principles of Physics II</b> PHYS 2212K only offered in spring (PHYS 2211 is a prerequisites) (need a C or higher to do well in the program)	4			
<input type="checkbox"/> <b>Calculus II</b> MATH 2254 (MATH 2253 is a prerequisites)	4	<input type="checkbox"/> <b>Calculus III</b> MATH 2255 (MATH 2254 is a prerequisites)	4			
<input type="checkbox"/> <b>Computing Applications in Mechanical Engineering Technology</b> ENGR 1121 (MATH 1113 is a prerequisite)	2	<input type="checkbox"/> <b>Engineering Mechanics I</b> ENGR 2231 (PHYS 2211 is a prerequisites)	3	Milestones: If GPA is less than 2.75, a student is no longer competitive for graduate programs. GPA should be 2.5 or higher. If not, consult an academic advisor for options.		
<input type="checkbox"/> <b>American Civilization II</b> HIST 2112 Course to meet Legislative Requirements	3	<input type="checkbox"/> <b>Linear Algebra</b> MATH 2150 (MATH 2253 is a prerequisites)	3			
<input type="checkbox"/> <b>Computer Science I</b> CSCI 1301 (MATH 1113 is a prerequisite)	4	<input type="checkbox"/> <b>Public Speaking</b> COMM 1110	3			
<b>TOTAL</b>	17	<b>TOTAL</b>	17		<b>TOTAL</b>	
<b>RUNNING TOTAL</b>	51	<b>RUNNING TOTAL</b>	68	<b>RUNNING TOTAL</b>		
JUNIOR FALL		JUNIOR SPRING		JUNIOR SUMMER		
<input type="checkbox"/> <b>Mechanics of Materials</b> ENGR 3233 (ENGR 2231 is a prerequisite)	3	<input type="checkbox"/> <b>World Literature I</b> ENGL 2111	3			
<input type="checkbox"/> <b>Differential Equations</b> MATH 3100 (MATH 2254 is a prerequisite)	3	<input type="checkbox"/> <b>Fluid Mechanics</b> ENGR 3235 (PHYS 2212K is a prerequisite) (ENGR 2231 is a prerequisite)	3			
<input type="checkbox"/> <b>Dynamics of Rigid Bodies</b> ENGR 2232 (PHYS 2211K is a prerequisite) (MATH 2253 is a prerequisite) (ENGR 2231 is a prerequisite)	3	<input type="checkbox"/> <b>Thermodynamics</b> ENGR 3431 (PHYS 2211K is a prerequisite) (MATH 2253 is a prerequisite)	3			
<input type="checkbox"/> <b>Mechanical Engineering Technology Case Studies in Design &amp; Analysis</b> MENT 2110 (ENGR 2500 is prerequisite)	1	<input type="checkbox"/> <b>Mechanism Design</b> MENT 3130 (ENGR 2232 is prerequisite)	3	<input type="checkbox"/> Explore internship options. <input type="checkbox"/> Find a mentor.  Milestones: GPA should be 3.0 minimum		
<input type="checkbox"/> <b>Electronics and Circuit Analysis</b> ENGR 2131 (ENGR 2139 is a co-requisite) (PHYS 2212K is a prerequisite)	3	<input type="checkbox"/> <b>Materials Science</b> MENT 3331 (CHEM 1211K is prerequisite) (ENGR 3233 is prerequisite)	3			
<input type="checkbox"/> <b>Numerical Methods in Engineering</b> ENGR 2139 (MATH 2253 is a prerequisite) (MATH 2150 is prerequisite)	3					
<b>TOTAL</b>	16	<b>TOTAL</b>	15	<b>TOTAL</b>		
<b>RUNNING TOTAL</b>	84	<b>RUNNING TOTAL</b>	99	<b>RUNNING TOTAL</b>		
SENIOR FALL		SENIOR SPRING				
<input type="checkbox"/> <b>Topics in Diversity</b> DVRS 1101	1	<input type="checkbox"/> <b>Global Issues</b> POLS 2401	3			
<input type="checkbox"/> <b>Machine Design</b> MENT 3135	3	<input type="checkbox"/> <b>Senior Design II</b> MENT 4502	1			
<input type="checkbox"/> <b>Heat Transfer</b> MENT 3233	2	<input type="checkbox"/> <b>Internship</b> MENT 3398	3			
<input type="checkbox"/> <b>Introduction to Mechatronics</b> MENT 3531	3	<input type="checkbox"/> <b>Heat Transfer and Thermodynamics Lab</b> MENT 4403	1			
<input type="checkbox"/> <b>Materials Processing</b> MENT 3333	3	<input type="checkbox"/> <b>Engineering Quality Control and Project Management</b> MENT 4430	3			
<input type="checkbox"/> <b>Senior Design I</b> MENT 4501	1	<input type="checkbox"/> <b>Contemporary Health Issues</b> HLTH 1103	2			
<b>TOTAL</b>	13	<b>TOTAL</b>	13			
<b>RUNNING TOTAL</b>	112	<b>RUNNING TOTAL</b>	125			

South Georgia State College Bachelor of Science in Mechanical Engineering Technology (BSMET) graduates can work in many industries, and their work varies by industry and function. BSMET graduates will be able to apply the knowledge and skills they have learned in a number of local industries in the region. Job placement opportunities will exist in industries that rely on mechanical engineering consultations, product and materials testing, drafting and computer graphics and manufacturing and quality management.