

Academic Advising Worksheet

**Engineering Science**

Student Name: \_\_\_\_\_ J# \_\_\_\_\_ Date: \_\_\_\_\_

Program Core Courses- Engineering Science	Number of Credits	Prerequisite or Corequisite	Courses Completed	Courses Needed
ENGR 102 Engineering Design and Laboratory	4	MATH 162		
MATH 171 Calculus I	4	MATH 161-162		
CHEM 121 College Chemistry	4	CHEM 110 (or H.S. chemistry)		
ENGR 202 Engineering Design and Laboratory II	4	ENGR 102		
PHYS 140 Mechanics, Heat & Sound	5	MATH 171		
MATH 172 Calculus II	4	MATH 171		
MATH 270 Linear Algebra	4	MATH 171, MATH 172		
MATH 271 Calculus III	4	MATH 172		
CHEM 122 College Chemistry II	4	CHEM 121		
ENGR 221 Statics <sup>1</sup>	3	PHYS 140, MATH 172		
PHYS 241 Electricity, Magnetism & Light	5	PHYS 140, MATH 172		
MATH 272 Differential Eqs.	4	MATH 172, MATH 270		
ENGR 222 Dynamics <sup>1</sup>	3	ENGR 221, MATH 271		
<b>General Education Courses</b>				
ENGL 101 English Composition I	3			
ENGL 102 English Composition II	3	ENGL 101		
<b>Directed Electives (To be selected after consultation with an advisor)</b>				
SOC 101 Introduction to Sociology <sup>2</sup>	3			
Social Science Elective	3			
CSCI 111 Program Alg. Dev. I	4	MATH 161		
Or ENGR 205 Materials Engineering	4	PHYS 241, MATH 1		

Total to Graduate: 68 credits minimum

<sup>1</sup>A student planning to major in Chemical Engineering at a transfer institution may substitute CHEM 221 –222 (or CHEM 221 -212) for ENGR 221 and ENGR 222.

<sup>2</sup>A different social science course that satisfies the American Diversity requirement may be substituted.