

**Office of Academic and Student Affairs  
Southern University and A&M College  
Advisement Curriculum Worksheet**

<b>College/School:</b> Engineering	<b>Department:</b> Mechanical Engineering	<b>Catalog:</b> 2010-2014	<b>Total Required Credit Hours:</b> 128
<b>HEGIS Code:</b> 141901	<b>SED Code:</b>	<b>Date:</b>	<b>Chair:</b>
<b>Student's Name:</b>	<b>Student No:</b>	<b>Faculty Advisor:</b>	<b>Dean:</b>

**Core Curriculum Requirements (Not Active = NA)**

Course Number	Course Title	Credits	Semester Taken	Grade	Course Substitutes/Transfer	Pre-Requisite(s)	Co-Requisite(s)
<b>Freshman Year</b>							
ENGR 120	Freshman Engineering I	2					
MATH 264	Calculus I	4				Math 135 & 140, or consent of department	
ENGL 110	Freshman Composition I	3				N/A	
CHEM 132	General Chem Lecture	3				High School Chem & Algebra, Math 135 or above	Chem 112
CHEM 112	General Chem Lab	1					Chem 132
	Life Science Elective	3				As in catalog	
ENGR 130	Freshman Engineering II	2				Engr 120 & Math 264	
MATH 265	Calculus II	4				Math 264	
ENGL 111	Freshman Composition II	3				Engl 110	
PHYS 221	General Physics I	3				Math 264	Phys 223
PHYS 223	General Physics I Lab	1				Math 264	Phys 221
ECON 205 <sup>§</sup>	Principles of Economics	3				As in catalog	
<b>Sophomore Year</b>							
CIEN 224	Statics	3				Phys 221, 223 & Math 265	
MATH 395	Cal III & Diff Eqns for Engr	4				Math 265	
	Social Science Elective	3				As in catalog	
PHYS 222	General Physics II	3				Math 265	Phys 224
PHYS 224	General Physics II Lab	1				Math 265	Phys 222
ENGR 230	Technical Communication	2				Engl 110	
MEEN 235	Material Science & Engr	3				Chem 132 & Phys 222	
MEEN 221	Numerical Meth for Engr	3				Engr 130 & Math 265	Math 395
MEEN 225	Dynamics	3				CiEn 224 & Math 265	
MEEN 227	Mechanics of Materials	3				CiEn 224	
MEEN 252	Intro to CADD	2				Engr 120,130 & CiEn 224	
ELEN 352	EE Fundamentals	3				Math 265	

**Junior Year**

MEEN 300	Thermodynamics I	3				Phys 222	
MEEN 312	Fluid Mechanics	3				Math 395	MeEn 227, 300
ENGR 340	Engineering Mathematics	3				Math 395	
MEEN 335	Materials Processing	3				MeEn 227 & MeEn 235	
MEEN 350	Mechanics of Machines	3				MeEn 225	
	Health/PE Activity	2				As in catalog	
MEEN 301	Thermodynamics II	3				MeEn 300	
	Material Sci & Engr Elect	3				As in catalog	
MEEN 365	Machine Design	3				MeEn 227	
MEEN 356	Measurements	3				ELEN 352	
ENGR 320	Probability & Statistics	2				Math 265	
	History Elective	3				As in catalog	

**Senior Year**

ENGR 400	Engineering Seminar	1				MeEn 450	
MEEN 442	Heat Transfer	3				MeEn 300 & MeEn 312	
MEEN 450	ME Senior Design I	2				MeEn 365	
	Thermal Science Elective	3				As in catalog	
	History Elective	3				As in catalog	
	Literature Elective	3				As in catalog	
CIEN 310	Engineering Economy	3				Econ 200/205 & Math 265	
MEEN 451	ME Senior Design II	2				MeEn 450	
MEEN 456	Engr Mod, Analysis & Control	3				MeEn 225,356 & Engr 340	
	General Technical Elective	3				As in catalog	
	Arts Elective	3				As in catalog	
	<b>Total</b>	<b>128</b>					

**University Curriculum Requirements (Not Active = NA)**

Course Number	Course Title	Credits	Semester Taken	Grade	Course Substitutes/Transfer	Pre-Requisite(s)	Co-Requisite(s)
ENGL 203	African American Exp.	0-3*					
SVLR 400 or 100, 200 & 300	Service Learning	0-3**					
ENGL 001	Writing Proficiency	0					
MEEN 000	Dept. Comp Exam	0					

**Notes:**

\*Satisfies both literature and African American Experiences requirements, other courses may be taken, see the catalog.

\*\* May be taken for 3 credit hours or 0 credit hours.

§ Econ 200 may be taken instead of Econ 205.