

Arkansas State University - Jonesboro

Degree: Bachelor of Science in Mechanical Engineering

2011-2012

Students requiring developmental course work based on low entrance exam scores (ACT, SAT, ASSET, COMPASS) may not be able to complete this program of study in eight (8) semesters. Students having completed college level courses prior to enrollment will be assisted by their advisor in making appropriate substitutions. A minimum of 132 credit hours, of which 45 hours must be upper division credit (3000-4000 level), is required for this degree (developmental courses are excluded). Mandatory state and institutional assessment exams will be required during your degree program. Failure to participate in required assessments may delay graduation.

Year 1 Fall Semester				Year 1 Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
BIOL 1063	People and the Environment	3X		CHEM 1011	Lab for General Chemistry I	1X	
ENG 1003	Composition I	3X		CHEM 1013	General Chemistry I	3X	
ENGR 1402	Concepts of Engineering (FYE)	2		ENG 1013	Composition II	3X	
MATH 2204	Calculus I	4X		ENGR 1412	Software Applications for Engineers	2	
ANTH 2233 or HIST 1013 or 1023 or GEOG 2613	Intro to Cultural Anthropology or World Civilization to 1660 or World Civilization since 1660 or Intro to Geography	3	X	MATH 2214	Calculus II	4	
PE 1002	Concepts of Fitness	2X		PHYS 2034	University Physics I	4X	
Total Hours		17		Total Hours		17	
Year 2 Fall Semester				Year 2 Spring Semester			
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
ENGR 2403	Statics	3		ENGR 2411	Lab for Mechanics of Materials	1	
ENGR 2421	Lab for Electric Circuits I	1		ENGR 2413	Mechanics of Materials	3	
ENGR 2423	Electric Circuits I	3		ENGR 3423	Dynamics	3	
MATH 3254	Calculus III	4		MATH 4403	Differential Equations	3	
Art 2503 or Mus 2503 or Thea 2503	Fine Arts Visual or Musical or Theatre	3X		ME 2502	Solid Modeling for Mechanical Engineers	2	

SCOM 1203	Oral Communications	3X	Science Elective	See Bulletin	4		
Total Hours		17	Total Hours		16		
Year 3 Fall Semester			Year 3 Spring Semester				
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
ME 4563	Intro. To Man. Processes	3		ME 3513	Mechanical Vibrations	3	
ENGR 3433	Engineering Economics	3		ME 3533	Engineering Thermodynamics II	3	
ME 4543	Machine Design	3		Elective 3000/4000	ME Elective, (Mechanical Systems Stem)	3	
ENGR 3443	Engineering Thermo. I	3		Elective 3000/4000	ME Elective, (Thermal Systems Stem)	3	
ENGR 4453	Num. Meth, for Engineers	3		ENGR 3471	Lab for Fluid Mechanics	1	
HIST 2763 or 2773 or POSC 2103	US History to or since 1876 or Intro to US Government	3X		ENGR 3473	Fluid Mechanics	3	
Total Hours		18	Total Hours		16		
Year 4 Fall Semester			Year 4 Spring Semester				
Course No.	Course Name	Hrs	Gen Ed	Course No.	Course Name	Hrs	Gen Ed
ENGR 4463	Senior Design I	3		ENGR 4483	Senior Design II	3	
ME 3504	Process Monitoring and Control	4		ME 4503	Fluid and Thermal Energy Systems	3	
ME 4553	Heat Transfer	3		Elective 3000/4000	ME Elective	3	
ME 4573	Mechanical System Design	3		Elective	Professional Development Elective	3	
ENG 2003 or ENG 2013 or PHIL 1103	Intro to Lit I or Intro to Lit II or Intro to Philosophy	3X		HIST 2763 or 2773 or ECON 2313 or 2333 or POSC 2103 or 1003 or PSY 2013 or SOC 2213	US to 1876 or US since 1876 or Principles of Macroeconomics or Economic Issues and Concepts or Intro to US Government or Intro to Politics or Intro to Psychology or Intro to Sociology (select course not previously taken)	3X	
Total Hours		16	Total Hours		15		
Total Jr/Sr Hours (after 1st 30)		63	Total Degree Hours		132		