

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING (BSME) DEGREE  
PLAN OF STUDY (POS)  
(Students at IUPUI before Fall 2013)**

Name:		Student No:		Co-op (Yes/No):	
School (E and T) Admission Date:			Program (M.E.) Entry Date:		
Expected Graduation Date:			Date of Plan of Study:		
Phone Number:			E-Mail:		
Course Number	Name of Course	Credit Hours	Grade	Alternative Courses/Comments	
<b>I. FRESHMAN ENGINEERING ( 7hours)</b>					
*ENGR 19500	Introduction to the Engineering Profession	1			
*ENGR 19600	Introduction to Engineering	3			
*ENGR 19700	Introduction to Programming Concepts	2			
ENGR 29700	Computer Tools for Engineering	1			
<b>II. MATH &amp; SCIENCES (30 hours)</b>					
*CHEM C105	Chemical Science I	3			
**MATH 16500	Integrated Calculus and Analytic Geometry I	4			
**MATH 16600	Integrated Calculus and Analytic Geometry II	4			
**MATH 17100	Multidimensional Mathematics	3			
MATH 26100	Multivariate Calculus	4			
MATH 26600	Differential Equations	3			
*PHYS 15200	Mechanics	4			
PHYS 25100	Heat, Electricity, and Optics	5			
<b>III. ENGINEERING SCIENCE (36 Hours)</b> <i>(Includes: Mechanical, Thermal/Fluid Sciences, &amp; Systems Measurements and Controls)</i>					
ECE 20400	Introduction to Electrical and Electronic Circuits	4			
ME 20000	Thermodynamics I	3			
ME 27000	Basic Mechanics	3			
ME 27200	Mechanics of Materials	3			
ME 27400	Basic Mechanics II	3			
ME 31000	Fluid Mechanics	4			
ME 31400	Heat and Mass Transfer	4			
ME 33000	Modeling & Analysis of Dynamic Systems	3			
ME 34000	Dynamic Systems & Measurements	3			
ME 34400	Intro. to Engineering Materials	3			
ME 48200	Control Systems Analysis & Design	3			
<b>IV. ENGINEERING DESIGN (14 hours)</b>					
ME 26200	Engr. Design, Ethics and Entrepreneurship	3			

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ME 37200	Design of Mechanisms	3		
ME 397 LAB	Engineering Lab	1		
ME 40500	Seminar & Fundamentals of Engineering Review	1		
ME 41400 OR ME 49700	Thermal-Fluid Systems Design OR Machine Design	3		
ME 46200	Capstone Design	3		
<b>V. ELECTIVES (18 Hours) Tech Electives</b>				
TECH ELEC.		3		
TECH ELEC.		3		
TECH ELEC.		3		
SCI/TECH ELEC.	Science or Technical Elective	3		
RESTRC. ELECTIVE	Sci/Tech or Gen. Ed Elective	3		
STATS	Statistics 35000 (math minor)	3		
<b>VI. GENERAL EDUCATION (23 hours)</b>				
*COMM R110	Fundamentals of Speech Communication	3		
ME 32700 OR ECON E201	Engineering Economics	3		
*ENG W131	Elementary Composition I	3		
TCM 36000	Communication in Engineering Practice	2		
***GEN ED	Arts & Humanities	3		
***GEN ED	Cultural Understanding	3		
***GEN ED	Arts & Humanities or Social Science	3		
***GEN ED	Depth Course (200 level or higher)	3		
				<b>TOTAL SEMESTER HOURS: (128 Minimum)</b>
Student Signature:				Date:
Advisor's Signature:				Date:
Department Chair:				Date:
Date:	Degree Grade Point Average:			
<b>Certified for Graduation</b>				

**Notes:**

As of November 11, 2005, only one advisor signature is needed for approval of a POS before the chair's approval.

\*As of Fall 2013, students must have a C- or better in these courses.

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\*\*\*Students who began IUPUI before Fall 2013 must meet the following requirements for General Education: two very bold,

two courses from the same department and two non-introductory courses.

[http://et2.engr.iupui.edu/departments/me/courses/me/General%20Ed%20electives\\_Before%20Fall%202013.pdf](http://et2.engr.iupui.edu/departments/me/courses/me/General%20Ed%20electives_Before%20Fall%202013.pdf)