

## School of Engineering and Technology

Student ID  
Student Name


Degree/Program Plan: Dual BSME/MSTE  
Program/Plan Code: BSMEMTSPBS  
Requirement Term: 4188



## 1st Semester

Course#	Cr Hr	Title	Semester taken
CHEM-C 105	3	Principles of Chemistry	
COMM-R 110	3	Fund. Of Speech Communication	
ENGR 12500	1	1st Year Seminar	
ENGR 19600	3	Introduction to Engineering	
MATH 16500	4	Integrated Calculus and Analy. Ge	
MSTE 27200	3	Intro to Motorsports	

17

## 2nd Semester

Course#	Cr Hr	Title	Semester taken
ENG-W 131	3	Reading, Writing & Inquiry I	
ENGR 19700	2	Intro to Programming Concepts	
MATH 16600	4	Integ. Calculus and Analyt. Geom II	
PHYS 15200	4	Mechanics	
MATH 17100	3	Multidimensional Mathematics	
MSTE 29701	2	Computer Modeling for Motorsports	

18

## 3rd Semester

Course#	Cr Hr	Title	Semester taken
MATH 26100	4	Multivariate Calculus	
ME 20000	3	Thermodynamics	
ME 27000	3	Basic Mechanics I	
PHYS 25100	5	Heat, Electricity, and Optics	
ME 22501	1	Mechanical Engineering Lab I	
MSTE 29800	2	Comp. Modeling & Prog. For MSTE	

18

## 4th Semester

Course#	Cr Hr	Title	Semester taken
MSTE 31201	3	Business of Motorsports	
ECE 20400	4	Intr to Elect. And Electronic Circ.	
MATH 26600	3	Lin. Algebra and Diff. Equations	
ME 26201	2	Design, Ethics & Entrepreneurship	
ME 25001	1	Mechanical Engineering Lab II	
ME 27400	3	Basic Mechanics II	

16

## 5th Semester

Course#	Cr Hr	Title	Semester taken
ME 27200	3	Mechanics of Materials	
ME 31002	3	Fluid Mechanics	
ME 32501	1	Mechanical Engineering Lab III	
ME 33000	3	Modeling and Analysis of Dyn. Sys.	
ECON E201/ME 32700	3	Intro to Microeconomics/Engr. Economics	
MSTE 35000	3	Computer Aided Des. And Mnfng.	

16

## 6th Semester

Course#	Cr Hr	Title	Semester taken
STAT Elective	3	Statistics Elective	
ME 31401	3	Heat and Mass Transfer	
ME 35001	1	Mechanical Engineering Lab IV	
ME 34001	2	Dynamic Sys. And Measurements	
ME 37200	3	Mechanical Design II	
MET 33800	4	Manufacturing Processes	

16

## 7th Semester

Course#	Cr Hr	Title	Semester taken
ME 34400	3	Introduction to Engineering Materials	
MSTE 47200	3	Vehicle Dynamics	
MSTE 33001	2	Data Acquisition in Motorsports I	
MSTE 31700	1	Motorsports Practicum II	
REST Elect	3	Restricted Elective	
ME 42501	1	Mechanical Engineering Lab V	
ME 48200	3	Control Systems Analysis and Des.	

16

## 8th Semester

Course#	Cr Hr	Title	Semester taken
Gen Ed	3	Cultural Understanding	
MSTE 33100	3	Race Engineering	
MSTE 32000	3	Motorsports Design I	
ME 41400 or ME 45310	3	Thermal Fluid Design Mechanism Design	

12

## 9th Semester

Course#	Cr Hr	Title	Semester taken
MSTE 48200	3	Motorsports Aerodynamics (ME Sci/Tech)	
TECH Elect	3	ME Tech Elective	
TCM 36000	2	Comm. In Engineering Practice	
MSTE 41700	1	Motorsports Practicum III	
Gen Ed	3	Social Science or Arts & Humanities	

12

## 10th Semester

Course#	Cr Hr	Title	Semester taken
ME 46200	3	Engineering Design	
Gen Ed	3	Depth course	
ME 40600	1	Robust Design Standards and Cont. Issues	
MSTE 42600	3	Internal Comb. Eng. (ME TECH Elect)	
PHIL-P 120	3	Ethics	

13

## School of Engineering and Technology

Student ID   
 Student Name

## Core Requirements

Course#	Cr Hr	Sem/Yr	Grade	Comments
ENGR 12500	1			
ENGR 19600	3			
ENGR 19700	2			
ECE 20400	4			
ME 20000	3			
ME 22501	1			
ME 27000	3			
ME 25001	1			
ME 26201	2			
ME 27400	3			
ME 27200	3			
ME 31002	3			
ME 32501	1			
ME 33000	3			
ME 31401	3			
ME 34001	2			
ME 37200	3			
ME 35001	1			
ME 34400	3			
ME 48200	3			
ME 42501	1			
ME 41400 OR ME 45310	3			
ME 46200	3			
ME 40600	1			Robust Design Strds + Cont.Iss.
MET 33800	4			
MSTE 27200	3			
MSTE 29701	2			
MSTE 29800	2			
MSTE 31201	3			
MSTE 31700	1			
MSTE 32000	3			
MSTE 33001	2			
MSTE 33100	3			
MSTE 35000	3			
MSTE 41700	1			
MSTE 42600	3			
MSTE 47200	3			
MSTE 48200	3			

total: 92

## Math and Science Requirements

Course#	Cr Hr	Sem/Yr	Grade	Comments
CHEM-C 105	3			
MATH 16500	4			
MATH 16600	4			
MATH 17100	3			
MATH 26100	4			
PHYS 15200	4			
PHYS 25100	5			
MATH 26600	3			

total: 30

## General Education Requirements

Course#	Cr Hr	Sem/Yr	Grade	Comments
COMM-R 110	3			
ENG-W 131	3			
PHIL-P 120	3			
ECON-E 201 OR ME 32700	3			
STAT Elective	3			Approved list of Stat electives: STAT35000, STAT51100, IET15000, or ECE30200
TCM 36000	2			
GEN ED	3			See approved Cultural Understanding list*
GEN ED	3			See approved Soc Sci or Arts/Humanities list*
GEN ED	3			Depth course

total: 26

## Technical and Restricted Electives

Course#	Cr Hr	Sem/Yr	Grade	Comments
REST ELECT	3			See approved ME Sci, Tech Elect, or Gen Ed list*
TECH ELECT	3			See approved ME Tech Electives list*

total: 6

\*Science and Technical Electives website:

<http://www.engr.iupui.edu/departments/me/courses/me/index.php>

\*General Education Core website:

<https://uc.iupui.edu/UndergraduateEducation/GeneralEducationCurriculum/GeneralEducationCore.aspx>

154	Total Credit hours for Dual BS Program
	Total credits reduced to 154 from 158

Department of Mechanical Engineering: 274-9717  
 Offices: SL 260

Department of Engineering Technology: 274-2363  
 Offices: ET 201