

School of Engineering and Technology

Student ID:	
Student Name:	
Program Entry Date:	

Degree/Program Plan: B.S. Motorsports Engineering
 Program/Plan Code: ENGR1 / MSTRSENGRBS
 Requirement Term: 8/15/2018 [4188]

1st Semester

Course#	Units	Title	
ENG-W 131	3	Elementary Composition	
MATH 16500	4	Calculus I	
ENGR 19500	1	Learning Community	
CHEM C 105	3	Chemistry I	
MSTE 27200	3	Intro to Motorsports	
COMM-R 110	3	Fund of Speech	
Credit Hours	17		

2nd Semester

Course#	Units	Title	
MATH 16600	4	Calculus II	
PHYS 15200	4	General Physics I	
MATH 17100	3	Multidimensional Mathematics	
MSTE 31200	3	Business of Motorsports	
MSTE 29700	2	Modeling for Motorsports	
Credit Hours	16		

3rd Semester

Course#	Units	Title	
MATH 26100	4	Multivariate Calculus	
PHYS 25100	5	General Physics II	
ME 20000	3	Thermodynamics	
ME 27000	3	Basic Mechanics I	
MSTE 29800	2	Computer Modeling & Programming	
Credit Hours	17		

4th Semester

Course#	Units	Title	
ECE 20400	4	Electrical and Electronics Circuits	
ME 27400	3	Basic Mechanics II	
ME 27200	3	Strength of Materials	
MET 33800	4	Manufacturing Processes	
MATH 26600	3	Ordinary Diff. Equations	
Credit Hours	17		

5th Semester

Course#	Units	Title	
MSTE 47200	3	Vehicle Dynamics	
MSTE 33000	2	Data Acquisition in Motorsports I	
ME 31000	3	Fluid Mechanics	
ME 32501	1	Fluids lab	
MSTE 34000	3	Dynamic Systems and Signals	
MSTE 35000	3	Computer Aided Design and Analysis	
Credit Hours	15		

6th Semester

Course#	Units	Title	
MSTE 33100	3	Data Acquisition in Motorsports II	
STAT Elective	3	STAT Elective	
ME 34400	3	Materials	
TCM 36000	2	Communications/Writing	
MSTE 32000	3	Motorsports Design I	
MSTE 31700	1	Motorsports Practicum II	
Credit Hours	15		

7th Semester

Course#	Units	Title	
MSTE 48200	3	Motorsports Aerodynammics	
ME 48200	3	Control Systems Analysis and Des.	
MSTE 41700	1	Motorsports Practicum III	
Gen Ed Elect	3	See approved Arts & Humanities list	
Tech Elective	3	See approved course list	
Gen Ed Elect	3	See approved Cultural Understanding list	
Credit Hours	16		

8th Semester

Course#	Units	Title	
MSTE 41400	3	Motorsports Design II	
MSTE 42600	3	Internal Combustion Engines	
Tech Elective	3	See approved course list	
Gen Ed Elect	3	See approved Social Sciences list	
PHIL P120	3	Ethics	
Credit Hours	15		

Total Hours	128
-------------	-----

School of Engineering and Technology

Student ID:

Student Name:

Program Entry Date:

Degree/Program Plan: B.S. Motorsports Engineering
 Program/Plan Code: ENGR1 / MSTRSENGRBS
 Requirement Term: 8/15/2018 [4188]

Core Requirements - MSTE Specialty

Course#	Units	Term	Grade	Pre-requisites	Comments
ECE 20400	4			P: PHYS 25100 and P: MATH 26100	
ENGR 19500	1				
ME 20000	3			P: PHYS 15200 and C: MATH 26100	
ME 27000	3			P: PHYS 15200 and C: MATH 26100	
ME 27200	3			P: ME 27000	
ME 27400	3			P: ME 27000 and C: MATH 26600	
ME 31000	3			P:ME 20000& ME 27400 & MATH 26600 and C:ME 32501	
ME 32501	1			Fluids lab	
ME 34400	3			P: CHEM 10500 and Jr Standing	
ME 48200	3			P: ME 34000 or MSTE 34000	
MET 33800	4			P: MATH 15400 & TECH 104 (or MSTE 29700)	
MSTE 27200	3				
MSTE 29700	2				
MSTE 29800	2				
MSTE 31200	3			P: MSTE 27200 and ENG-W 131	
MSTE 31700	1			P: MSTE 35000 and Junior standing	
MSTE 32000	3			P: MSTE 35000 and MSTE47200 and Junior standing	
MSTE 33000	2			C: ECE 20400	
MSTE 33100	3			P: MSTE 33000 and MSTE 47200	
MSTE 34000	3			P: ME 27000, ME27400 and MATH 26600	
MSTE 35000	3			P: MSTE 29700 C: ME 27000	
MSTE 41400	3			P: MSTE 32000 & 472 and P or C: MSTE 48200	
MSTE 41700	1			P: MSTE 31700	
MSTE 42600	3			P: ME 20000	
MSTE 47200	3			P: ME 27000 and ME 27400	
MSTE 48200	3			P: MSTE 35000 and ME 31000 and MSTE47200	
total:	69				

Math and Science Requirements

Course#	Units	Term	Grade	Pre-requisites	Comments
MATH 16500	4			P: MATH 15400 or 15900 or Placement	
CHEM C 105	3				
MATH 16600	4			P: MATH 16500	
PHYS 15200	4			P or C: MATH 16600	
MATH 17100	3			P: MATH 15400 or 15900 or Placement	
MATH 26100	4			P: MATH 16600 and MATH 17100	
PHYS 25100	5			P: PHYS 15200 & MATH 165,166,171 & P or C: MATH 26100	
MATH 26600	3			P: MATH 16600 and MATH 17100 C: MATH 26100	
Stat Elective	3			See ENT web site	

total: 33

General Education Requirements - Communications, Humanites, Social Science

Course#	Units	Term	Grade	Pre-requisites	Comments
ENG-W131	3			P: Placement	
COMM R 110	3			P: Placement	
TCM 36000	2			P: ENG-W 131 and COMM R110	
Gen Ed Elec	3			See ENT web site for approved Social Sciences list	
Gen Ed Elec	3			See ENT web site for approved Cultural Understanding list	
Gen Ed Elec	3			See ENT web site approved Arts & Humanities list	
PHIL P120	3				

total: 20

Technical Electives Requirements

Course#	Units	Term	Grade	Pre-requisites	Comments
Tech Elective	3				
Tech Elective	3			(MSTE I41000 Internship may be used as 3 cred Tech Elect w permission	
total:	6			from MSTE Prog Director)	

See ENT site for complete list of acceptable Tech Electives

<http://www.engr.iupui.edu/departments/ent/undergrad/mste/index.php>

128 Total Credit Hours for BS Degree

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

