

School of Mechanical Engineering, Purdue University

Student ID:

Student Name:

Program Entry Date:

Degree/Program Plan: B.S. Motorsports Engineering

Program/Plan Code:

Requirement Term:

1st Semester

Course#	Units	Title	
MA 16500	4	Diff Calculus	
ENGR 13100	2	Ideas to Innovation I	
CHEM 11500	4	Gen Chem	
WC Elective	3	Written Communication Elective	
Gen Ed Elec	3	Gen Ed Elective I	

Credit Hours 16

2nd Semester

Course#	Units	Title	
MA 16600	4	Integ Calculus	
PHYS 17200	4	Modern Physics	
ENGR 13200	2	Ideas to Innovation II	
OC Elective	3	Oral Communication Elective	
SCI Elec	3	Science Elective	

Credit Hours 16

3rd Semester

Course#	Units	Title	
MA 26100	4	Multivariate Calculus	
ME 27000	3	Statics	
MSPE 29701	2	Motorsports Intro to Modeling	
MSPE 29000	1	Seminar	
MSPE 29800	2	Motorsport Programming	
Gen Ed Elec	3	Gen Ed Elective II	

Credit Hours 15

4th Semester

Course#	Units	Title	
MA 26200	4	Linear Alg & Differential Eq	
ECE 20001	3	Electrical Engineering Fundamentals I	
ECE 20007	1	Electrical Engineering Fundamentals Lab	
ME 20000	3	Thermodynamics I	
ME 26400	3	Intro to Manufacturing & Design	
ME 27400	3	Dynamics	

Credit Hours 17

5th Semester

Course#	Units	Title	
ME 32300	3	Mechanics of Materials	
ME 32301	1	Mechanics of Materials Lab	
ME 36500	3	Measurment & Control Systems I	
MSPE 33000	3	System Engineering in Motorsports	
MSPE 35000	3	Computer Aided Design and Analysis	
MSPE 47200	3	Vehicle Dynamics	

Credit Hours 16

6th Semester

Course#	Units	Title	
ME 30800	3	Fluid Mechanics	
MSPE 37500	3	Motorsports Control Systems	
MSPE 31700	1	Practicum I	
MSPE 32000	3	Motorsports Design I	
World Elec	3	World Cultural Elective	
Econ Elec	3	Econ Elective	

Credit Hours 16

7th Semester

Course#	Units	Title	
ME 30801	1	Fluid Mechanics Lab	
MSPE 48200	3	Vehicle Aerodynamics	
MSPE 42600	3	Motorsports Powertrain	
MSPE 41700	1	Practicum II	
MSPE Elec	3	MSPE Elective	
MSPE/ME Tec	3	MSPE/ME Tech Elective	
Gen Ed Elec	3	Gen Ed Elective III	

Credit Hours 17

8th Semester

Course#	Units	Title	
MSPE 41400	3	Motorsports Design II	
MSPE 43100	3	Race Engineering	
MSPE Elec	3	MSPE Elective	
MSPE/ME Tec	3	MSPE/ME Tech Elective	
Gen Ed Elec	3	Gen Ed Elective IV	

Credit Hours 15

Total Credit Hours for BS in Motorsports Engineering 128

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Engineering Core Course Requirements

Course#	Units	Term	Grade	Pre-requisites	Comments
ECE 20001	3			C: MA26100, ME 27400	
ECE 20007	1				
ENGR 13100	2				
ENGR 13200	2			P: ENGR 13100	
ME 20000	3			P: CHEM 11500	
ME 27000	3			P: PHYS 17200, C: MA 26100, ME 20000	
ME 26300	3				
ME 27400	3			P: ME 27000	
ME 30800	3			P: ME 20000	
ME 30801	1			C: ME30800	
ME 32300	3			P: ME 27000	
ME 32301	1			C: ME 32300	
ME 36500	3			P: MA 26200, ECE 20001, 20007, ME 274000	
MSPE 29000	1			P: WC1, OC1	
MSPE 29700	2			C: ME 27000	
MSPE 29800	2			P: MA 16600	
MSPE 31700	1			P: MSPE 35000 and Junior Standing	
MSPE 32000	3			P: MSPE 35000, MSPE 47200, ME 32300	
MSPE 33000	3			C: ECE20001 & 20007, ME 36500	
MSPE 35000	3			P: MSPE 29701 C: MSPE 32300	
MSPE 37500	3			P: MSPE 29800, ME 36500	
MSPE 41400	3			P: MSPE 32000, C: MSPE 48200	
MSPE 41700	1			P: MSPE 31700 and Senior Standing	
MSPE 42600	3			P: MSPE 33000, ME20000	
MSPE 43100	3			P: MSPE 33000, MSPE 47200	
MSPE 47200	3			P: ME 27400	
MSPE 48200	3			P: MSPE 47200, ME 30800	

ECE Credits 4

ENGR Credits 4

ME Credits 23

MSPE Credits 34

Total 65

Math and Science Requirements

Course#	Units	Term	Grade	Pre-requisites	Comments
MA 16500	4				
MA 16600	4				
MA 26100	4				
MA 26200	4				
PHYS 17200	4				
CHEM 11500	4				

Total: 24

General Education Electives

Course#	Units	Term	Grade	Pre-requisites	Comments
WC Elec	3				
OC Elec	3				
CS 15900	3				
Gen Ed Elec	3				
Gen Ed Elec	3				
Gen Ed Elec	3				
Gen Ed Elec	3				
Econ Elec	3				
World Ctr Elec	3				

Total: 27

Technical Electives

Course#	Units	Term	Grade	Pre-requisites	Comments
MSPE Tech	6				
MSPE/ME Tech	6				

Total: 12

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