

Dual BSME and BSMSTE Plan of Study

School of Engineering and Technology

Student ID
 Student Name

Degree/Program Plan: Dual MSME/MSTE
 Program/Plan Code: BSMEMTSPBS
 Requirement Term: 4138

1st Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
CHEM-C 105	3	Chemical Science I	P: CHEM-C 101 or Placement
COMM-R 110	3	Fund. Of Speech Communication	
ENGR 19500	1	Intro the Engineering Profession	
ENGR 19600	3	Introduction to Engineering	C: MATH 15400 or 15900
MATH 16500	4	Integrated Calculus and Analy. Ge	P: MATH 15400, 15900, or placement
MSTE 27200	3	Intro to Motorsports	

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6th Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
STAT 350	3	STAT ELECTIVE	
ME 31400	4	Heat and Mass Transfer	P: ME 31000
ME 34000	3	Dynamic Sys. And Measurements	P: ME 33000; C: STAT 350
ME 37200	3	Mechanical Design II	P: ME 26200, ME 27200 and ME 27400
MET 33800	4	Manufacturing Processes	

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2nd Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
ENG-W 131	3	Elementary Composition I	
ENGR 19700	2	Intro to Programming Concepts	C: MATH 16500
MATH 16600	4	Integ. Calculus and Analyt. Geom II	P: MATH 16500
PHYS 15200	4	Mechanics	C: MATH 16600
MATH 17100	3	Multidimensional Mathematics	
MSTE 29700	1	Computer Modeling for Motorsports	

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7th Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
ME 34400	3	Introduction to Engineering Materials	P: CHEM-C 105 & Junior Standing
MSTE 47200	3	Vehicle Dynamics	P: MSTE 21000 or ME 27400
MSTE 33000	3	Data Acquisition in Motorsports I	P: ECE 20400
MSTE 31700	1	Motorsports Practicum II	P: MSTE 21700
RESTRICT Elective	3	Restricted Elective	
ME 39700	1	ME Materials/Mechanical Design Lab	C: ME 37200 and ME 34400
ME 48200	3	Control Systems Analysis and Des.	C: ME 34000

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3rd Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
MATH 26100	4	Multivariate Calculus	P: MATH 16600 and MATH 17100
ME 20000	3	Thermodynamics	P: PHYS 15200, C: MATH 26100
ME 27000	3	Basic Mechanics I	P: PHYS 15200, C: MATH 26100
PHYS 25100	5	Heat, Electricity, and Optics	P: PHYS 15200 C: MATH 26100
ENGR 29700	1	Matlab	P: ENGR 19700
MSTE 29800	2	Comp. Modeling & Prog. For MSTE	

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8th Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
MSTE 31200	4	Business of Motorsports	P: MSTE 27200
MSTE 33100	3	Data Acquisition in Motorsports II	P: MSTE 33000 and MSTE 47200
MSTE-I 41000	1	Internship (ME SCI/TECH Elect)	
MSTE 32000	3	Motorsports Design I	P: MSTE 35000
ME 41400 or ME 49700	3	Thermal Fluid Design Mechanism Design	P: ME 26200, STAT ELEC; C: ME 31400 C: 37200

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4th Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
Gen Ed	3	Cultural Understanding	
ECE 20400	4	Intr to Elect. And Electronic Circ.	C: PHYS 25100
MATH 26600	3	Lin. Algebra and Diff. Equations	P: MATH 16000 and MATH 17100
ME 26200	3	Mechanical Design I	P: ENGR 19600 C: ME 27000 and ENGR 29700
ME 27400	3	Basic Mechanics II	P: ME 27000, C: MATH 26600

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9th Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
MSTE 48200	3	Motorsports Aerodynamics	P: MSTE 35000 and ME 31000
TECH Elect	3	ME Tech Elective	P: Senior Standing
TCM 36000	2	Comm. In Engineering Practice	P: ENG-W 131, COMM-R 110
MSTE 41700	1	Motorsports Practicum III	P: MSTE 31700
Gen Ed	3	Social Science	

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5th Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
ME 27200	3	Mechanics of Materials	P: ME 27000
ME 31000	4	Fluid Mechanics	P:ME 20000, MATH 26600, ME 27400
ME 33000	3	Modeling and Analysis of Dyn. Sys.	P: MATH 26600 and ECE 20400
ECON E201/ME 32700	3	Intro to Microeconomics/Engr. Economics	P: Sophomore standing
MSTE 35000	3	Computer Aided Des. And Mnfg.	P: MSTE 29800 and MSTE 21000
MSTE 21700	1	Motorsports Practicum I	

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10th Semester

Course#	Cr Hr	Title	Pre- or Co-requisite
ME 46200	3	Engineering Design	P: ME 34400, 37200, C: ME 41400 or ME 49700, 48200, & 40500
Gen Ed	3	Arts and Humanities	
ME 40500	1	FE Exam Prep and Seminar	P: Senior Standing, ME 34400, 37200, C: ME 48200
MSTE 42600	3	Internal Comb. Eng. (ME TECH Elect)	P: ME 20000
PHIL-P 120	3	Ethics	

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