

Engineering Dual Degree Requirements

Motorsports Engineering & Biology

University Core Curriculum		Common Engineering	
Common Core Requirements		Mathematics	
FYS 101	First Year Seminar	3	
FYS 102	First Year Seminar	3	
GHS 201-209	Global and Historical Studies	3	
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General Core Requirements		Science	
TI	Text and Ideas (TI 244-PL)	3	
PCA	Perspectives in the Creative Arts	3	
SW	The Social World	3	
AR	<i>Analytical Reasoning (exempt)</i>	3	
NW	<i>The Natural World (exempt)</i>	5	
PWB	Physical Well-Being	1	
Core Credits		22(30)	
Additional Core Requirements		Engineering	
BCR	Butler Cultural Requirement	8 events	
ICR	Indianapolis Community Requirement	1 course	
SAC	Speaking Across the Curriculum	1 course	
WAC	Writing Across the Curriculum	1 course	
Liberal Arts and Science Requirements		Other	
Foreign Language (min 6 cr 200 level or above)		6-14	
Spanish, French, German, Chinese, Latin			
Credits		28-36	
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Biology		Motorsports Engineering	
BI 111	<i>Contemporary Issues in Biology</i> †	-	
BI 210	Genetics	4	
BI 220	Cellular and Molecular Biology	4	
BI 230	Ecology and Evolutionary Biology	5	
BI 299	<i>Biology Seminar</i> †	-	
BI 480	Senior Biology Capstone (WAC)	3	
Biology Electives		19	
<p>To acquire the remaining credit hours for the major, students must take biology electives at the 300 level or above; at least four of these electives must be lab courses. One of the electives taken must be an organism-based course. Students will be allowed to use a maximum of three hours of independent study credit, internship credit, research or honors thesis credit toward the 37-hour† minimum required for the biology major.</p>			
Credits		35	
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191 - 199 Total Credits		51	
		51	
		77	

¹ used as equivalents for degree requirements

† also required for Biology major

† EDDP students are exempt from BI 111 and 299 with credits fulfilled from engineering courses

PHIL 120 *Ethics* ¹

PH 351 Analog Electronics (WAC)

MA 359 Probability and Statistics

ME 200 Thermodynamics

ME 270 Basic Mechanics I

ME 272 Mechanics of Materials

ME 274 Basic Mechanics II

ME 310 Fluid Mechanics

ME 325 Fluids Lab

ME 344 Intro to Engineering Materials

ME 482 Control Systems

MET 338 Manufacturing Processes

MSTE 272 Introduction to Motorsports

MSTE 297 Modeling for Motorsports

MSTE 298 Computer Modeling & Programming

MSTE 312 Business of Motorsports

MSTE 317 Motorsports Practicum II

MSTE 320 Motorsports Design I

MSTE 330 Data Acquisition in Motorsports I

MSTE 331 Data Acquisition in Motorsports II

MSTE 340 Dynamic Systems and Signals

MSTE 350 Comp Aided Design & Analysis

MSTE 414 Motorsports Design II

MSTE 417 Motorsports Practicum III

MSTE 426 Internal Combustion Engines

MSTE 472 Vehicle Dynamics

MSTE 482 Motorsports Aerodynamics

Tech Electives

Credits 77