Engineering Dual Degree Requirements

Motorsports Engineering & Economics

University Core Curriculum

Common Core Requirements			Credits
FYS	101	First Year Seminar	3
FYS	102	First Year Seminar	3
GHS	201-209	Global and Historical Studies	3
GHS	201-209	Global and Historical Studies	3

General Core Requirements		Credits
TI	Text and Ideas (TI 244-PL)[3]	3
PCA	Perspectives in the Creative Arts	3
SW	*The Social World (exempt)*	*3*
AR	*Analytical Reasoning (exempt)*	*3*
NW	*The Natural World (exempt)*	*5*
PWB	Physical Well-Being	1
	Core Credits	19(30)

Additional Core Requirements		
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	Credits
Foreign Language (min 6 cr 200 level or above)	6-14
Spanish, French, German, Chinese, Latin	
Credits	25-33

Common Engineering

Mathematics			Credits
MA	106	Calculus & Analytical Geometry 1[+]	4
MA	107	Calculus & Analytical Geometry 2	4
MA	208	Calculus & Analytical Geometry 3	4
MA	215	Linear Algebra	3
MA	334	Differential Equations	3

Science			Credits
CH	105	General Chemistry 1	5
CH	106	General Chemistry 2	5
PH	201	Introduction to Analytical Physics 1[1]	5
PH	202	Introduction to Analytical Physics 2	5

Engineering			Credits
DD	190	Elementary Engineering Design	3
DD	297	MATLAB	1
CS	142	Intro to Comptuer Science & Prog	3

Other			Credits
COM	101	Rhetoric and the American Demo	3
TCM	250	Career Planning for Engineers	1
TCM	360	Comm in Engineering Practice (WAC/SAC)	2
ENGR	200	Engineering Internship	1
		Credits	52

Economics			Credits
MS	*100*	*Basic Excel Skills*[1]	-
MS	264	Business Statistics	3
MS	265	Information Technology	3
EC	231	Principles of Microeconomics	3
EC	232	Principles of Macroeconomics	3
EC	332	Intermediate Macroeconomics	3
EC	354	Intermediate Microeconomics	3
EC	464	Quantitative Methods-Econometrics	3
Economics Electives (choose 4)			12
EC	336	Comparative Economic Systems	
EC	339	Economic History of the United States	
EC	342	Law and Economics	
EC	346	Health Care Economics	
EC	351	Urban Economics	
EC	352	Personnel Economics (WAC)	
EC	355	Money & Banking	
EC	391	Environmental & Natural Resources	
EC	433	International Economics	
EC	434	Economics of Taxation & Public Expenditures	
EC	438	Economic History of Europe	
EC	462	Mathematical Economics	
EC	495	Special Topics in Economics	
		Credits	33

184 - 192 Total Credits

[1-3] used as equivalents for degree reqirements

[+] also required for Economics major

Motorsports Engineering			Credits
PHIL	*120*	*Ethics*[3]	-
PH	351	Analog Electronics (WAC)	4
MA	*359*	*Probability and Statistics*[2]	-
ME	200	Thermodynamics	3
ME	270	Basic Mechanics I	3
ME	272	Mechanics of Materials	3
ME	274	Basic Mechanics II	3
ME	310	Fluid Mechanics	3
ME	325	Fluids Lab	1
ME	344	Intro to Engineering Materials	3
ME	482	Control Systems	3
MET	338	Manufacturing Processes	4
MSTE	272	Introduction to Motorsports	3
MSTE	297	Modeling for Motorsports	2
MSTE	298	Computer Modeling & Programming	2
MSTE	312	Business of Motorsports	3
MSTE	317	Motorsports Practicum II	1
MSTE	320	Motorsports Design I	3
MSTE	330	Data Acquisition in Motorsports I	2
MSTE	331	Data Acquisition in Motorsports II	3
MSTE	340	Dynamic Systems and Signals	3
MSTE	350	Comp Aided Design & Analysis	3
MSTE	414	Motorsports Design II	3
MSTE	417	Motorsports Practicum III	1
MSTE	426	Internal Combustion Engines	3
MSTE	472	Vehicle Dynamics	3
MSTE	482	Motorsports Aerodynamics	3
Tech Electives			6
		Credits	74