

BUTLER UNIVERSITY • DEPARTMENT OF ART

DUAL DEGREE: B.A. IN ART + DESIGN (from Butler University) PLUS B.S. IN MOTORSPORTS ENGINEERING (from Purdue University)

- Engineering contact: Jessica McCormick, 317-940-9021, jrmccorm@butler.edu
- The B.A. degree in Art + Design requires 126 hours, of which 40 hours must be 300 or 400-level courses.
- The Dual Degree of Art + Design and Motorsports Engineering will fulfill the following Areas of Inquiry in the Butler University Core Curriculum: Perspectives of the Creative Arts, The Natural World, and Analytical Reasoning. In addition, the Dual Degree curriculum fulfills the Writing Across the Curriculum and Speaking Across the Curriculum requirements of the Butler University Core Curriculum; art majors are exempted from the Butler Cultural Requirement because of the performance attendance requirements for all JCA majors. The Indianapolis Community Requirement is NOT satisfied.

Semester 1

ART 105	Art History Survey 1	3
ART 107	Drawing 1	3
FYS 101	First Year Seminar	3
PWB__	Physical Well Being	1
CH 105	General Chemistry 1	5
DD 190	Elementary Engr Design	3

Semester 2

ART 205	Art History Survey 2	3
ART 210	Professional Practices	3
JC 100-01	Arts Event Attendance (P/F)	0
FYS 102	First Year Seminar	3
CH 106	General Chemistry 2	5
MA 106**	Calculus & Anal. Geo. 1	4

***Math placement test required. There is the possibility that the student will need to take MA 101 (Algebra, 3 cr.) and/or MA 102 (Precalculus, 3 cr.) prior to MA 106 and MA 107.*

TOTAL Credit Hours:	18	18
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Semester 3

ART 322	Painting 1	3
ART __	Art Elective	3
MA 107	Calculus & Anal Geo. 2	4
MSTE 27200	Intro to Motorsports	3
PH 201	Intro to Anal. Physics 1	5

Semester 4

ART 308	Graphic Design 1	3
ART __	Art Elective	3
JC 200-01	Arts Event Attendance (P/F)	0
MA 208	Calculus & Anal. Geo. 3	4
ME 27000	Basic Mechanics 1	3
PH 202	Intro to Anal. Physics 2	5

TOTAL Credit Hours:	18	18
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Semester 5

ART ____	Art Elective	3
GHS ____	Global and Historical Studies	3
MA 334	Differential Equations	3
ME 27400	Basic Mechanics 2	3
MSTE 29700	Modeling for Motorsports	2
MSTE 29800	Computer Mod & Program	2
PH 351-W	Analog Electronics	4
TOTAL Credit Hours:		20

Semester 6

ART ____	Art Elective	3
JC 300-01	Arts Event Attendance (P/F)	0
TI ____	Texts and Ideas	3
ME 20000	Thermodynamics	3
MET 33800	Manufacturing Processes	4
MSTE 31200	Business of Motorsports	3
SW 220-EC	The Economy and Society	3
TCM 250	Career Planning for Engineers	1
TOTAL Credit Hours:		20

Semester 7

ART 453	Internship	3
ART ____	Art Elective	3
MSTE 33000	Data Acquisition in Motsp 1	2
MSTE 34000	Dynamic Systems & Signals	3
MSTE 35000	Computer Aided Des & Anal	3
MSTE 47200	Vehicle Dynamics	3
TCM 360-W/C	Comm in Engineering Prac	2
TOTAL Credit Hours:		19

Semester 8

ART 411-C	Thesis	3
GHS ____	Global and Historical Studies	3
ME 27200	Mechanics of Materials	3
ME 31000	Fluid Mechanics	3
ME 32501	Fluids Lab	1
MSTE 31700	Motorsports Practicum 2	1
MSTE 32000	Motorsports Design 1	3
MSTE 33100	Data Acquisition in Motsp 2	3
TOTAL Credit Hours:		20

Semester 9

COM 101	Rhetoric & the Amer Dem Tra	3
MA 215	Linear Algebra	3
ME 34400	Intro to Engineer Materials	3
ME 48200	Control Systems	3
MSTE 41700	Motorsports Practicum 3	1
MSTE 48200	Motorsports Aerodynamics	3
____	Tech Electives	3
TOTAL Credit Hours:		19

Semester 10

ART ____	Art Elective	3
ENGR 20010	Engineering Internship	1
MA 359	Probability and Statistics	3
MSTE 41400	Motorsports Design 2	3
MSTE 42600	Internal Combustion Engines	3
PHIL P-120	Ethics	3
____	Tech Electives	3
TOTAL Credit Hours:		19

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SUMMARY

REQUIRED ART COURSES:

ART 105	Art History Survey 1	3
ART 107	Drawing 1	3
ART 205	Art History Survey 2	3
ART 210	Professional Practices	3
ART 308	Graphic Design 1	3
ART 322	Painting 1	3
ART 411-C	Thesis	3
ART 451, 452, 453	Internship: Art + Design	3
JC 100,200, 300, 400	Arts Event Attendance (P/F)	0
ART Electives, chosen from:		18
ART 207, 307	Drawing 2, 3	3
ART 303/313/323	Photography 1, 2, 3	3
ART 304	Depiction	3
ART 305	Animation and Video	3
ART 306	Interactive	3
ART 311	Function	3
ART 312	Design: His and Theory	3
ART 314	Art Museum Studies	3
ART 315	Postmodernism in the Arts	3
ART 316	Modernism in the Arts	3
ART 317	Amer Art & Visual Culture	3
ART 318, 328	Graphic Design 2, 3	3
ART 319	World Hist of Photography	3
ART 320	Race, Gender, & Sexuality	3
ART 332, 342	Painting 2, 3	3
ART 360	Sculpture	3
ART 380, 381, 382	Special Topics in Art + Des	1, 2, 3
ART 401, 402, 403	Ind Study: Art + Design	1, 2, 3
ART 499	Honors Thesis	3
TOTAL		42

BUTLER UNIVERSITY CORE CURRICULUM:

FYS 101, 102	First Year Seminar	3, 3
GHS _____	Global & Historical Studies	3, 3
TI _____	Texts and Ideas	3
PWB _____	Physical Well Being/Marching Band	1
TOTAL		16

COURSES REQUIRED FOR THE MOTORSPORTS ENGINEERING DEGREE:

CH 105	General Chemistry 1	5
CH 106	General Chemistry 2	5
COM 101	Rhetoric & the Amer Dem Tradition	3
DD 190	Elementary Engineering Design	3
ENGR 20010	Engineering Internship	1

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MA 106*	Calculus & Anal Geometry 1	4
MA 107*	Calculus & Anal Geometry 2	4
MA 208	Calculus & Anal Geometry 3	4
MA 215	Linear Algebra	3
MA 334	Differential Equations	3
MA 359	Probability and Statistics	3
ME 20000	Thermodynamics	3
ME 27000	Basic Mechanics 1	3
ME 27200	Mechanics of Materials	3
ME 27400	Basic Mechanics 2	3
ME 31000	Fluid Mechanics	3
ME 32501	Fluids Lab	1
ME 34400	Intro to Engineering Materials	3
ME 48200	Control Systems	3
MET 33800	Manufacturing Processes	4
MSTE 27200	Introduction to Motorsports	3
MSTE 29700	Modeling for Motorsports	2
MSTE 29800	Computer Modeling & Program	2
MSTE 31200	Business of Motorsports	3
MSTE 31700	Motorsports Practicum 2	1
MSTE 32000	Motorsports Design 1	3
MSTE 33000	Data Acquisition in Motorsports 1	2
MSTE 33100	Data Acquisition in Motorsports 2	3
MSTE 34000	Dynamic Systems and Signals	3
MSTE 35000	Comp Aided Design and Analysis	3
MSTE 41400	Motorsports Design 2	3
MSTE 41700	Motorsports Practicum 3	1
MSTE 42600	Internal Combustion Engines	3
MSTE 47200	Vehicle Dynamics	3
MSTE 48200	Motorsports Aerodynamics	3
PH 201	Intro to Analytical Physics 1	5
PH 202	Intro to Analytical Physics 2	5
PH 351-W	Analog Electronics	4
PHIL P-120	Ethics	3
SW 220-EC	The Economy and Society	3
TCM 250	Career Planning for Engineers	1
TCM 360-W+C	Comm in Engineering Practice	2
Tech Electives		6

TOTAL **131**

**Students get credit for MA 106 if they receive a 4 or 5 on the Calculus AB AP exam; they receive credit for both MA 106 and MA 107 if they receive a 4 or 5 on the Calculus BC AP exam with a 4 or 5 on the AB subscore.*