

BUTLER UNIVERSITY • DEPARTMENT OF ART

DUAL DEGREE: B.A. IN ART + DESIGN (from Butler University) PLUS B.S. IN BIOMEDICAL 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 Biomedical 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
CH 351	Organic Chemistry 1	5
CS 142	Intro to Comp Sc & Prog	3
MA 107	Calculus & Anal Geo. 2	4

Semester 4

ART 308	Graphic Design 1	3
ART ____	Art Elective	3
JC 200-01	Arts Event Attendance (P/F)	0
COM 101	Rhetoric and the Am Dem Tra	3
CH 352	Organic Chemistry 2	5
MA 208	Calculus & Anal. Geo. 3	4

TOTAL Credit Hours:	18	18
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BUTLER UNIVERSITY • DEPARTMENT OF ART

Semester 5

ART ____	Art Elective	3
BI 210	Genetics	4
DD 297	MATLAB	1
MA 215	Linear Algebra	3
PH 201	Intro to Anal. Physics 1	5
TCM 360-W/C	Comm in Engineering Prac	2

TOTAL Credit Hours: 18

Semester 6

ART ____	Art Elective	3
JC 300-01	Arts Event Attendance (P/F)	0
BI 220	Cellular & Molecular Biology	4
BME 22200	Biomeasurements	4
BME 24100	Biomechanics	4
PH 202	Intro to Anal. Physics 2	5

20

Semester 7

SW ____	The Social World	3
BI 433	Advanced Cell Biology	4
BME 33100	Biosignals and Systems	3
BME 33400	Biomedical Computing	3
BME 38100	Implantable Mat & Bio Resp	3
BME 38300	Probs in Imp Mat & Bio Resp	1
TCM 250	Career Planning for Eng	1

TOTAL Credit Hours: 18

Semester 8

ART 411-C	Thesis	3
TI ____	Texts and Ideas	3
BME 32200	Prob & Statistics for BME	3
BME 35200	Cell/Tissue Beh & Properties	3
BME 35400	Probs in Cell/Tiss Beh & Prop	1
BME ____	BME Elective	3
MA 334	Differential Equations	3

19

Semester 9

ART 453	Internship	3
GHS ____	Global & Historical Studies	3
BME 41100	Quantitive Physiology	3
BME 46100	Transport Processes in BME	3
BME 49100	BME Design 1	3
BME ____	BME Elective	3

TOTAL Credit Hours: 18

Semester 10

ART ____	Art Elective	3
ART ____	Art Elective	3
GHS ____	Global & Historical Studies	3
BME 40200	Senior Seminar in BME	1
BME 44200	Biofluid & Biosolid Mech	3
BME 49200	BME Design 2	3
BME ____	BME/Science/Tech Elective	3
ENGR 20010	Engineering Internship	1

20

BUTLER UNIVERSITY • DEPARTMENT OF ART

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 and Historical Studies	3, 3
TI _____	Texts and Ideas	3
SW _____	The Social World	3
PWB _____	Physical Well-Being/Marching Band	1
TOTAL		19

COURSES REQUIRED FOR THE BIOMEDICAL ENGINEERING DEGREE:

BI 210	Genetics	4
BI 220	Cellular and Molecular Biology	4
BI 433	Advanced Cell Biology	4
BME 22200	Biomeasurements	4
BME 24100	Biomechanics	4
BME 32200	Probability & Statistics for BME	3
BME 33100	Biosignals and Systems	3
BME 33400	Biomedical Computing	3

BUTLER UNIVERSITY • DEPARTMENT OF ART

BME 35200	Cell/Tissue Behavior & Properties	3
BME 35400	Probs in Cell/Tissue Beh & Prop	1
BME 38100	Implantable Mat & Biological Resp	3
BME 38300	Probs in Implant Mat & Bio Resp	1
BME 40200	Senior Seminar in BME	1
BME 41100	Quantitive Physiology	3
BME 44200	Biofluid & Biosolid Mechanics	3
BME 46100	Transport Processes in BME	3
BME 49100	Biomedical Engineering Design 1	3
BME 49200	Biomedical Engineering Design 2	3
BME Electives		3,3
BME/Science/Tech Elective		3
CH 105	General Chemistry 1	5
CH 106	General Chemistry 2	5
CH 351	Organic Chemistry 1	5
CH 352	Organic Chemistry 2	5
COM 101	Rhetoric & the Amer Dem Tradition	3
CS 142	Intro to Computer Sci & Prog	3
DD 190	Elementary Engineering Design	3
DD 297	MATLAB	1
ENGR 20010	Engineering Internship	1
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
PH 201	Intro to Analytical Physics 1	5
PH 202	Intro to Analytical Physics 2	5
TCM 250	Career Planning for Engineers	1
TCM 360-W+C	Comm in Engineering Practice	2

TOTAL **124**

**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.*