BUTLER UNIVERSITY • DEPARTMENT OF ART

B.A. IN ART + DESIGN PLUS A SECONDARY MAJOR IN DATA SCIENCE

• The B.A. degree in Art + Design requires 126 credits.
   --40 hours must be 300 or 400-level courses.
   --All art majors have Arts Event Attendance Requirements; for details, check
      https://www.butler.edu/jca/for-current-students.

• The double major of Art + Design and Data Science will fulfill the following Areas of Inquiry in the University Core Curriculum: Perspectives of the Creative Arts and Analytic Reasoning. In addition, the B.A. Art + Design curriculum fulfills the Indianapolis Community Requirement and the Social Justice and Diversity requirement of the Butler University Core Curriculum; art majors are exempted from the Butler Cultural Requirement because of the arts event attendance requirements for all arts majors.

• The student will be assigned a Data Science advisor in addition to their Art advisor.

Semester 1

ART 105	Art History Survey 1	3
ART 107	Drawing 1	3
FYS 101	First Year Seminar	3
CS 142	Intro to Comp Sci and Program	3
CS 151	Foundations of Computing 1	3
MA 106*	Calculus & Anal. Geo. 1	4
TOTAL Credit Hours:		19

Semester 2

ART 205	Art History Survey 2	3
ART 210	Professional Practices	3
FYS 102	First Year Seminar	3
CS 252	Foundations of Computing 2	3
MA 107	Calculus & Anal. Geo. 2	4
		16

Math placement test required; the student may need to take MA 101 (Algebra, 3 cr.) and/or MA 102 (Precalculus, 3 cr.) prior to MA 106. 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.

Semester 3

ART 308	Graphic Design 1	3
ART _____	Art Elective	3
CS 333	Database Systems	3
MA 162	Elementary Statistics	3
Language Elective		3

Semester 4

ART _____	Art Elective	3
SW _____	The Social World	3
CS 248	Object-Orient Prog & Data Str	5
MA 310	Linear Algebra	3
Language Elective		3

Explanation: 6 hours of the same language at the 200-level or higher are required.

TOTAL Credit Hours:	15	17

Semester 5

ART _____	Art-Focused SJD Elective	3
ART _____	Art Elective	3
GHS _____	Global and Historical Studies	3
PWB _____	Physical Well-Being	1
CS 351	Algorithms	3
MA 360	Probability Theory 1	3
TOTAL Credit Hours:		16

Semester 6

ART _____	Art Elective	3
ART _____	Art Elective	3
GHS _____	Global and Historical Studies	3
CS 341	Advanced Data Structures	3
MA 361	Statistical Theory	3
		15

Semester 7

ART 453-ICR	Internship	3
ART _____	Art Elective	3
NW _____	The Natural World	5
CS 485	Computer Ethics	1
MA 362	Linear Regress & Time Series	3
TOTAL Credit Hours:		15

Semester 8

ART 411	Thesis	3
TI _____	Texts and Ideas	3
CS 445	Artificial Intelligence	3
MA 369	Multivariate Statis Methods	3
MA 468	Predict Analy & Data Mining	3
		15

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 411	Thesis	3
ART 451/2/3-ICR	Internship	3

Art-Focused Social Justice and Diversity course: Choose ONE: 3

ART 317-SJD	American Art and Visual Culture	
ART 319-SJD	World History of Photography	
ART 320-SJD	Race, Gender & Sexuality in Cont Art	

EIGHTEEN credits chosen from the following: 18 (maximum of 6 in Art History*)

ART 207,307	Drawing 2,3	3,3
ART 303,313,323	Photography 1,2,3	3,3,3
ART 304	Depiction	3
ART 305	Animation + Video	3
ART 311	Function	3
ART 312*	Design: History 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-SJD*	American Art and Visual Culture	3
ART 318,328	Graphic Design 2,3	3,3
ART 319-SJD*	World History of Photography	3
ART 320-SJD*	Race, Gen & Sexuality in Cont Art	3
ART 322,332,342	Painting 1,2,3	3,3,3
ART 360	Sculpture	3
ART 380/1/2	Special Topics in Art and Visual Cult	1,2,3
ART 401/2/3	Independent Study	1,2,3
ART 499	Honors Thesis	3
	TOTAL	***42***

UNIVERSITY CORE CURRICULUM:

FYS 101,102	First Year Seminar	3,3
GHS _____	Global and Historical Studies	3,3
NW _____	The Natural World	5
SW _____	The Social World (if needed)	3
TI _____	Texts and Ideas	3
PWB _____	Physical Well-Being	1
	TOTAL	***24***

COURSES REQUIRED FOR THE DATA SCIENCE MAJOR:

CS 142	Intro to Computer Science and Programming	3
CS 151	Foundations of Computing 1	3
CS 248	Object-Oriented Prog & Data Structures	5
CS 252	Foundations of Computing 2	3
CS 333	Database Systems	3

CS 341	Advanced Data Structures	3
CS 351	Algorithms	3
CS 445	Artificial Intelligence	3
CS 485	Computer Ethics	1
MA 106*	Calculus and Anal Geometry 1	4
MA 107	Calculus and Anal Geometry 2	4
MA 162	Elementary Statistics	3
MA 310	Linear Algebra	3
MA 360	Probability Theory 1	3
MA 361	Statistical Theory	3
MA 362	Linear Regression and Time Series	3
MA 369	Multivariate Statistical Methods	3
MA 468	Predictive Analytics and Data Mining	3
Language	6 hours of the same language at the 200-level or higher	
	TOTAL	*62*

Math placement test required; the student may need to take MA 101 (Algebra, 3 cr.) and/or MA 102 (Precalculus, 3 cr.) prior to MA 106. 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.