BUTLER UNIVERSITY • DEPARTMENT OF ART

B.A. IN ART + DESIGN PLUS A SECONDARY MAJOR IN MATHEMATICS

- The B.A. degree in Art + Design requires 120 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 Mathematics 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 of the Butler University Core Curriculum; art majors fulfill the Butler Cultural Requirement because of the arts event attendance requirements for all arts majors.
- The Mathematics major has two possible tracks: the pure math track (displayed below) and the applied math track; required courses for the applied math track are listed separately at the end of the summary.
- The student will be assigned a Mathematics advisor in addition to their Art advisor.

Semester 1			Semester 2	!	
ART 105 ART 107	Art History Survey 1 Drawing 1	3 3	ART 205 ART 210	Art History Survey 2 Professional Practices	3
FYS 101 WB	First Year Seminar Well-Being	3 1	FYS 102	First Year Seminar	3
MA 106* Language Elec Explanation:	Calculus & Anal. Geo. 1 tive 6 hours of the same language	4 3 at the 20	MA 107 Language El 00-level or highe		4 3
TOTAL Credit I	Hours:	17			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			Semester 4			
ART 308 ART	Graphic Design 1 Art Elective	3 3	ART ART	Art Elective Art Elective	3 3	
GHS	Global and Historical Studies	3	GHS	Global and Historical Studies	3	
MA 200 MA 208	Introduction to Proofs Calculus & Anal. Geo. 3	3 4	MA 205 MA 310	Discrete Mathematics Linear Algebra	3	
TOTAL Credit I	Hours:	16			15	

Semester 5			Semester 6		
ART ART		3 3	ART ART		3 3
NW	The Natural World	5			
	MA Elective elective (CS 142 or higher)	3	MA 330 MA 412 MA	Algebra: Groups	3 3 3
TOTAL Credit	Hours:	17			15
Semester 7			Semester 8		
ART 453-ICR	Internship	3	ART 411	Thesis	3
ті	Texts and Ideas	3	SW	The Social World	3
	Analysis: Theory of Calculus MA 413 or MA 427	3	MA 497/498 MA	Math Capstone/Thesis MA Elective Free Electives	1-3 3 0-2
	Hours:	12			12

SUMMARY

REQUIRED ART C	OURSES:		
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			3
	edits chosen from the following:		21 (maximum of 9 in Art History*)
ART 207,307	Drawing 2,3	3,3	21 (Maximum of 5 in Art History)
•	23,423 Photography 1,2,3,4	3,3,3,3	
ART 304	Depiction	3,3,3,3	
ART 305	Animation + Video	3	
ART 306	Cyanotype	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 315*	Modernism in the Arts	3	
	American Art and Visual Culture	3	
ART 318,328	Graphic Design 2,3	3,3	
•	World History of Photography	3,3	
ART 320-SJD*		3	
ART 320-31D ART 321*	Art of Asia	3	
	42 Painting 1,2,3	3,3,3	
ART 330*	Art of Africa	3,3,3	
ART 360	Sculpture	3	
ART 370	Studio Practicum	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 401/2/3	Honors Thesis	1,2,5 3	
NW 216-ART	Science and Photography	5	
INVV ZIO-ANI	TOTAL	3	42
	TOTAL		42
UNIVERSITY COR	E 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		3
TI	Texts and Ideas		3
WB	Well-Being		1
	TOTAL		24
COURSES REQUIF	RED FOR THE MATHEMATICS MAJOR:		
Courses taken f	for both tracks:		
MA 106*	Calculus & Anal Geometry 1		4
MA 107	Calculus & Anal Geometry 2		4
MA 200	Introduction to Proofs		3
MA 208	Calculus & Anal Geometry 3		4

MA 310	Linear Algebra	3
ONE of the fo	lowing courses:	1-3
MA 497	Mathematics Capstone (3)	
MA 498	Mathematics Thesis (1-3)	
Programming	Elective (CS 142 or higher)	3
Language	6 hours of the same language at the 200-level	l or higher
Courses taken	for the pure math track (shown in the above p	lan):
MA 205	Discrete Mathematics	3
MA 330	Complex Analysis	3
MA 412	Algebra: Groups	3
MA 426	Analysis: Theory of Calculus	3
ONE of the fo	lowing courses:	3
MA 413	Algebra: Rings and Fields	
MA 427	Analysis: Lebesgue Integration	
IVIA 427	Analysis. Lebesgue integration	
	of Math Electives (MA 301,305,311-399,413-428	3,473) 9
	,	3,473) 9 52-54
	f Math Electives (MA 301,305,311-399,413-428	•
NINE credits of FREE ELECTIVES	f Math Electives (MA 301,305,311-399,413-428	52-54
NINE credits of FREE ELECTIVES	of Math Electives (MA 301,305,311-399,413-428 <i>TOTAL</i>	52-54
NINE credits of FREE ELECTIVES Courses taken MA 334	of Math Electives (MA 301,305,311-399,413-428 **TOTAL** for the applied math track:	52-54 0-2 (to reach 120 total credits)
NINE credits of FREE ELECTIVES Courses taken MA 334	f Math Electives (MA 301,305,311-399,413-428 TOTAL for the applied math track: Differential Equations	52-54 0-2 (to reach 120 total credits)
FREE ELECTIVES Courses taken MA 334 ONE of the fo MA 412	f Math Electives (MA 301,305,311-399,413-428 TOTAL for the applied math track: Differential Equations llowing Algebra courses:	52-54 0-2 (to reach 120 total credits)
FREE ELECTIVES Courses taken MA 334 ONE of the fo MA 412	f Math Electives (MA 301,305,311-399,413-428 TOTAL for the applied math track: Differential Equations llowing Algebra courses: Algebra: Groups Algebra: Rings and Fields	52-54 0-2 (to reach 120 total credits)
FREE ELECTIVES Courses taken MA 334 ONE of the fo MA 412 MA 413 ONE Statistics MA 359	f Math Electives (MA 301,305,311-399,413-428 TOTAL for the applied math track: Differential Equations llowing Algebra courses: Algebra: Groups Algebra: Rings and Fields option: Probability and Statistics (3)	52-54 0-2 (to reach 120 total credits) 3 3
FREE ELECTIVES Courses taken MA 334 ONE of the fo MA 412 MA 413 ONE Statistics MA 359 MA 162/M	f Math Electives (MA 301,305,311-399,413-428 TOTAL for the applied math track: Differential Equations llowing Algebra courses: Algebra: Groups Algebra: Rings and Fields option:	52-54 0-2 (to reach 120 total credits) 3 3

MA 426

MA 427

MA 428

MA 337

MA 365

MA 396

Analysis: Theory of Calculus

TWO of the following Applied courses:

Numerical Analysis

Operations Research

Analysis: Lebesgue Integration

Analysis: Calculus on Manifolds

TWO Math Electives (300/400-level, from an approved list) 6

Applied Dynamics and Stability Theory

6

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