

BUTLER UNIVERSITY • DEPARTMENT OF ART

B.A. IN ART + DESIGN *PLUS* A SECONDARY MAJOR IN NEUROSCIENCE

- 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 Neuroscience will fulfill the following Areas of Inquiry in the University Core Curriculum: Perspectives of the Creative Arts, The Social World, and The Natural World. 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.
- Neuroscience majors are required to choose at least one area of concentration: Biological, Computational, or Psychological. The plan below includes the courses required for the Biological concentration; the requirements for the Computational and Psychological concentrations are listed at the end of the Summary.
- The student will be assigned a Neuroscience 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
WB ____	Well-Being	1
BI 210	Genetics-Fundamentals	4
NS 110	Intro to Neuroscience	2
TOTAL Credit Hours:		16

Semester 2

ART 205	Art History Survey 2	3
ART 210	Professional Practices	3
FYS 102	First Year Seminar	3
BI 220	Cell & Molecular Bio-Fund	4
SW 250-PS	Psychological Inquiry	3
TOTAL Credit Hours:		16

Semester 3

ART 308	Graphic Design 1	3
ART ____	Art Elective	3
BI 230	Eco & Evol Bio-Fundamentals	4
CH 105*	General Chemistry 1	4
Language Elective		3
TOTAL Credit Hours:		17

Semester 4

ART ____	Art Elective	3
ART ____	Art Elective	3
BI 250	Biostatistics-Fundamentals	4
CH 106*	General Chemistry 2	4
Language Elective		3

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

TOTAL Credit Hours: 17

**Students who received a score of 4 or 5 on the AP Chemistry test should register for CH 107. Students without AP credit should take the on-line placement test prior to enrolling in CH 105/106; an especially strong background in high school chemistry might also suggest taking CH 107.*

Semester 5

ART ____	Art Elective	3
ART ____	Art Elective	3
AR ____	Analytic Reasoning	3
BI 460	Cell & Mole Neurobiology	4
PS 370	Biological Bases of Behavior	3
TOTAL Credit Hours:		16

Semester 6

ART ____	Art Elective	3
ART ____	Art Elective	3
GHS ____	Global and Historical Studies	3
NS 210	Multidisc Approaches to Neuro	2
SE 132	Intro to Python Programming	3
		14

Semester 7

ART 453-ICR	Internship	3
TI ____	Texts and Ideas	3
PL 346	Philosophy of Mind	3
PS ____	PS 412 or PS 413	3
TOTAL Credit Hours:		12

Semester 8

ART 411	Thesis	3
GHS ____	Global and Historical Studies	3
NS 410	Big Questions in Neuroscience	2
PL 343	Philosophy of Science	3
BI/RX ____	Approved Elective	4
		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
TWENTY-ONE credits chosen from the following:		21 (maximum of 9 in Art History*)
ART 207,307	Drawing 2,3	3,3
ART 303,313,323,423	Photography 1,2,3,4	3,3,3,3
ART 304	Depiction	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 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 321*	Art of Asia	3
ART 322,332,342	Painting 1,2,3	3,3,3
ART 330*	Art of Africa	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 499	Honors Thesis	3
NW 216-ART	Science and Photography	5
TOTAL		42

UNIVERSITY CORE CURRICULUM:

FYS 101,102	First Year Seminar	3,3
GHS ____	Global and Historical Studies	3,3
AR ____	Analytic Reasoning	3
TI ____	Texts and Ideas	3
WB ____	Well-Being	1
TOTAL		19

COURSES REQUIRED FOR THE NEUROSCIENCE MAJOR:

BI 210	Genetics –Fundamentals	4
BI 220	Cellular & Molecular Bio—Fundamentals	4
NS 110	Introduction to Neuroscience	2
NS 210	Multidisciplinary Appr to Neuroscience	2
NS 410	Big Questions in Neuroscience	2
PL 343	Philosophy of Science	3

PL 346	Philosophy of Mind	3
PS 370	Biological Bases of Behavior	3
SW 250-PS	Psychological Inquiry	3
ONE of the following courses:		3
PS 412	Advanced Applied Neuroscience	
PS 413	Neuroscience of Drugs	
ONE of the following courses:		3-4
BI 460	Cellular and Molecular Neurobiology (4)*	
<i>*Required for students enrolled in the Biological Neuroscience Concentration and included in the plan above</i>		
NS 460	Cellular and Molecular Neurobiology (3)	
Language	6 hours of the same language at the 200-level or higher	
TOTAL		38-9

Additional courses required for the Biological Neuroscience Concentration (included in the plan above)

BI 230	Ecology & Evolutionary Bio—Fundamentals	4
BI 250	Biostatistics—Fundamentals	4
CH 105*,106*	General Chemistry 1,2	4,4
SE 132	Introduction to Python Programming	3
ONE Elective course chosen from:		4
BI 320	Animal Behavior	
BI 370	Basics of Microscopy	
BI 411	Principles of Physiology	
BI 430	Animal Development	
BI 433	Advanced Cell Biology	
BI 435	Molecular Genetics	
RX 610	Special Top in PHS: Rec Adv in Neuropharmacology	

Additional courses required for the Computational Neuroscience Concentration

BI 250	Biostatistics—Fundamentals	4
CS 142	Introduction to Computer Science & Progr	3
CS 151	Foundations of Computing 1	3
DS 310	Introduction to Data Science	3
DS 320	Data Engineering and Curation	3

Additional courses required for the Psychological Neuroscience Concentration

PS 210	Research Methods/Statistics 1	3
PS 211	Research Methods/Statistics 2	3
ONE of the following courses:		3
PS 385	Cognitive Processes	
PS 404	Sensory Processes and Perception	
ONE of the following courses:		3
PS 412	Advanced Applied Neuroscience	
PS 413	Neuroscience of Drugs	
RX 610	Special Top in PHS: Rec Adv in Neuropharmacology	
SE 132	Introduction to Python Programming	3

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