

## BUTLER UNIVERSITY • DEPARTMENT OF ART

### B.A. IN ART + DESIGN PLUS A SECONDARY MAJOR IN BIOCHEMISTRY

- 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 Biochemistry will fulfill the following Areas of Inquiry in the University Core Curriculum: Perspectives of the Creative Arts, The Natural World, 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 Biochemistry 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
PWB _____	Physical Well-Being	1
CH 105*	General Chemistry 1	4
Language Elective		3

#### **Semester 2**

ART 205	Art History Survey 2	3
ART 210	Professional Practices	3
FYS 102	First Year Seminar	3
CH 106*	General Chemistry 2	4
CH 160	Modern Issues in Biochem	1
Language Elective		3

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

TOTAL Credit Hours:	17	17
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*\*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 3**

ART 308	Graphic Design 1	3
ART _____	Art Elective	3
GHS _____	Global and Historical Studies	3
BI 210	Genetics – Fundamentals	4
CH 351	Organic Chemistry 1	4

#### **Semester 4**

ART _____	Art Elective	3
ART _____	Art Elective	3
GHS _____	Global and Historical Studies	3
BI 220	Cell & Mol Biology – Fund	4
CH 352	Organic Chemistry 2	4

TOTAL Credit Hours:	17	17
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**Semester 5**

ART ____	Art-Focused SJD Elective	3
ART ____	Art Elective	3
CH 321	Analytical Chemistry	4
MA 106**	Calculus & Anal. Geo. 1	4

TOTAL Credit Hours: 14

**Semester 6**

ART ____	Art Elective	3
ART ____	Art Elective	3
CH 361	Introduction to Biochemistry	3
CH ____	400-level Laboratory Elective	3
____	Free Electives	3

TOTAL Credit Hours: 15

*\*\*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 7**

ART 453-ICR	Internship	3
SW ____	The Social World	3
CH 362	Biochemistry 1	4
CH 363	Biochemistry Laboratory 1	2
CH ____	Elective	3

TOTAL Credit Hours: 15

**Semester 8**

ART 411	Thesis	3
TI ____	Texts and Ideas	3
CH 462	Biochemistry 2	3
CH 464	Exp Learning in Macro Struct	2
BI/CH ____	Elective	3

TOTAL Credit Hours: 14

## 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
SW _____	The Social World (if needed)	3
TI _____	Texts and Ideas	3
PWB _____	Physical Well-Being	1
<b>TOTAL</b>		<b>19</b>

### **COURSES REQUIRED FOR THE BIOCHEMISTRY MAJOR:**

BI 210	Genetics – Fundamentals	4
BI 220	Cell & Molecular Biology – Fundamentals	4
CH 105*, 106*	General Chemistry 1,2	4,4
CH 160	Modern Issues in Biochemistry	1
CH 321	Analytical Chemistry	4
CH 351	Organic Chemistry 1	4

CH 352	Organic Chemistry 2	4
CH 361	Introduction to Biochemistry	3
CH 362	Biochemistry 1	4
CH 363	Biochemistry Laboratory 1	2
CH 462	Biochemistry 2	3
CH 464	Exp Learning in Macromolecular Structure	2
MA 106**	Calculus and Anal Geometry 1	4
ONE 400-level CH	Laboratory course, chosen from	3
CH 424	Instrumental Analysis Laboratory	
CH 433	Inorganic Chemistry Laboratory	
CH 453	Advanced Organic Chemistry Laboratory	
CH 463	Biochemistry Laboratory 2	
CH 473	Physical Chemistry Laboratory	
CHOOSE at least 3 credits of CH and another 3 credits of CH or BI, chosen from: 6		
BI 323	Principles of Immunology	2
BI 325	Principles of Pathogenic Microbiology	3
BI 411	Principles of Physiology	4
BI 432	Plant Physiology	4
BI 433	Advanced Cell Biology	4
BI 434	Transmission Genetics	4
BI 435	Molecular Genetics	4
BI 436	Genomics, Bioinfo & Gene Evol	4
BI 438	Microbiology	4
BI 440	Molecular Virology	4
BI 460/NS 460	Cell & Molecular Neurobiology	3-4
CH 331	Inorganic Chemistry	3
CH 371	Physical Chemistry 1	3
CH 408/418	Chem in Our Lives/Chem Issues	3
CH 422	Analytical Chemistry 2	3
CH 425	Environmental Chemistry	3
CH 431	Inorganic Chemistry 2	3
CH 451	Advanced Organic Chemistry	3
CH 472	Physical Chemistry 2	3
CH 4X9	Special Topics in Chemistry	3
Language	6 hours of the same language at the 200-level or higher	
<b>TOTAL</b>		<b>62</b>

**FREE ELECTIVES**

**3 (to reach 126 total credits)**

*\*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.*

*\*\*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.*