

### B.A. IN MUSIC PLUS A SECONDARY MAJOR IN CHEMISTRY

- The B.A. degree in Music requires 124 credits.
  - 66 hours must be non-music credits.
  - 40 hours must be 300 or 400-level courses.
  - All music majors have Arts Event Attendance Requirements; for details, check <https://www.butler.edu/jca/for-current-students>.
- The double major of Music and Chemistry 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. Music curriculum fulfills the Social Justice and Diversity requirement of the Butler University Core Curriculum; music majors are exempted from the Butler Cultural Requirement because of the arts event attendance requirements for all arts majors. The Indianapolis Community Requirement is NOT satisfied.
- The student will be assigned a Chemistry advisor in addition to their Music advisor.

#### Semester 1

AM 021*	Keyboard Skills 1	1
<i>*If the major instrument is piano, the student should take AM 031, Piano Major: Keyboard Skills 1 and AM 032, Piano Major: Keyboard Skills 2 instead of AM 021, AM 022, AM 023, and AM 024.</i>		
AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MT 101	Music Theory 1	3
MT 111	Aural Skills 1	1
FYS 101	First Year Seminar	3
CH 105*	General Chemistry 1	4
Language Elective		3

#### Semester 2

AM 022*	Keyboard Skills 2	1
AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MT 102	Music Theory 2	3
MT 112	Aural Skills 2	1
FYS 102	First Year Seminar	3
CH 106*	General Chemistry 2	4
CH 190	Modern Issues in Chemistry	1
Language Elective		3

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

TOTAL Credit Hours: 18 19

*\*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

AM 023	Keyboard Skills 3	1
AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MT 201	Music Theory 3	3
MT 211	Aural Skills 3	1

#### Semester 4

AM 024	Keyboard Skills 4	1
AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
ME 330	Self-Represent for Musicians	1
MT 202	Music Theory 4	3

			MT 212	Aural Skills 4	1
PWB ____	Physical Well-Being	1			
CH 351	Organic Chemistry 1	4	CH 352	Organic Chemistry 2	4
MA 106**	Calculus & Anal. Geo 1	4	MA 107	Calculus & Anal Geo 2	4
TOTAL Credit Hours:		17			17

*\*\*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 5

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 308-SJD	Music in Global Contexts	3
CH 321	Analytical Chem 1	4
CH 361	Introduction to Biochemistry	3
PH 107/201	Elementary/Analy Physics 1	4-5
TOTAL Credit Hours:		17-18

### Semester 6

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 305	Music History 1	2
CH ____	CH Lecture Elective	3
CH ____	CH Laboratory Elective	3
PH 108/202	Elementary/Analy Physics 2	4-5
TOTAL Credit Hours:		15-16

---

### Semester 7

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 306	Music History 2	3
GHS ____	Global and Historical Studies	3
SW ____	The Social World	3
CH 371	Physical Chemistry	3
CH ____	Societal Topics Elective	3
TOTAL Credit Hours:		18

### Semester 8

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
ME 430	E-Portfolio Capstone	0
MH 307	Music History 3	3
GHS ____	Global and Historical Studies	3
TI ____	Texts and Ideas	3
CH 331	Inorganic Chemistry	3
TOTAL Credit Hours:		15

---

## SUMMARY

### REQUIRED MUSIC COURSES:

*Note: The 8-semester sequence shown above includes AM 021 and AM 022, as well as 4 additional semesters of Applied Music (8 credits) and 2 additional semesters of Major Ensemble (2 credits), in addition to the courses listed below. While not required in the B.A. degree, most music majors will take these additional classes for placement or scholarship reasons.*

AM 023,024*	Keyboard Skills 3,4	2
<i>*AM 031 &amp; AM 032 if major instrument is piano</i>		
AM ____	Major Instrument or Voice	8
ES ____	Major Ensemble	6
ME 330	Self-Representation for Musicians	1
ME 430	E-Portfolio Capstone	0
MH 305	Music History and Literature 1	2
MH 306	Music History and Literature 2	3
MH 307	Music History and Literature 3	3
MH 308-SJD	Music in Global Contexts	3
MT 101	Music Theory 1	3
MT 111	Aural Skills 1	1
MT 102	Music Theory 2	3
MT 112	Aural Skills 2	1
MT 201	Music Theory 3	3
MT 211	Aural Skills 3	1
MT 202	Music Theory 4	3
MT 212	Aural Skills 4	1
<b>TOTAL</b>		<b>44 (plan shows 56 music credits per the note above)</b>

### UNIVERSITY CORE CURRICULUM:

FYS 101,102	First Year Seminar	3,3
GHS ____	Global and Historical Studies	3,3
SW ____	The Social World	3
TI ____	Texts and Ideas	3
PWB ____	Physical Well-Being	1
<b>TOTAL</b>		<b>19</b>

### COURSES REQUIRED FOR THE CHEMISTRY MAJOR:

CH 105*,106*	General Chemistry 1,2	4,4
CH 190	Modern Issues in Chemistry	1
CH 321	Analytical Chemistry	4
CH 331	Inorganic Chemistry	3
CH 351	Organic Chemistry 1	4
CH 352	Organic Chemistry 2	4
CH 361	Introduction to Biochemistry	3
CH 371	Physical Chemistry	3
ONE Societal Topics course, chosen from:		3
CH 408	Chemistry in Our Lives	
CH 418	Chemistry and Global Issues	
ONE 400-level CH Lecture course, chosen from		3
CH 422	Analytical Chemistry 2	
CH 425	Environmental Chemistry	

CH 431	Advanced Inorganic Chemistry	
CH 451	Advanced Organic Chemistry	
CH 462	Biochemistry 2	
CH 472	Physical Chemistry 2	
CH 4X9	Special Topics in Chemistry	
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 453	Biochemistry Laboratory 2	
CH 473	Physical Chemistry Laboratory	
MA 106**	Calculus and Anal Geometry 1	4
MA 107	Calculus and Anal Geometry 2	4
ONE of the following:		8-10
PH 107,108	Elementary Physics 1, 2 (4,4)	
PH 201,202	Introduction to Analytical Physics 1,2 (5,5)	
Language	6 hours of the same language at the 200-level or higher	
<b>TOTAL</b>		<b>61-63</b>

*\*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.*