

B.A. IN MUSIC PLUS A SECONDARY MAJOR IN BIOCHEMISTRY

- The B.A. degree in Music requires 120 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 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. Music curriculum fulfills 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 Biochemistry advisor in addition to their Music advisor.

Semester 1

AM 021*	Keyboard Skills 1	1
<i>*Piano majors substitute AM 031 and AM 032 plus two credits of music electives for AM 021,022,023,024.</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 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: 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

BI 210	Genetics – Fundamentals	4	BI 220	Cell & Mol Biology – Fund	4
CH 351	Organic Chemistry 1	4	CH 352	Organic Chemistry 2	4
TOTAL Credit Hours:		16			17

Semester 5

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 305	Music and Devotion	3
GHS ____	Global and Historical Studies	3
CH ____	400-level Laboratory Elective	3
MA 106**	Calculus & Anal. Geo. 1	4

TOTAL Credit Hours: 17

Semester 6

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 306	Music and Narrative	3
WB ____	Well-Being	1
TI ____	Texts and Ideas	3
CH 321	Analytical Chemistry	4
CH 361	Introduction to Biochemistry	3

TOTAL Credit Hours: 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 7

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 307	Music, Globalization & Industry	3
SW ____	The Social World	3
CH 362	Biochemistry 1	3
CH 363	Biochemistry Laboratory 1	2
CH ____	Elective	3

TOTAL Credit Hours: 17

Semester 8

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
ME 430	E-Portfolio Capstone	0
MH 308-SJD	Music and Movement	3
GHS ____	Global and Historical Studies	3
CH 462	Biochemistry 2	3
CH 464	Exp Learning in Macro Struct	2
BI/CH ____	Elective	3

TOTAL Credit Hours: 17

SUMMARY

REQUIRED MUSIC COURSES:

Note: The 8-semester sequence shown above includes 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 scholarship reasons.

AM 021,022,023,024	Keyboard Skills 1,2,3,4	4
<i>*Piano majors substitute AM 031 and AM 032 plus two credits of music electives.</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 and Devotion	3
MH 306	Music and Narrative	3
MH 307	Music, Globalization, and Industry	3
MH 308-SJD	Music and Movement	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
TOTAL		47 (plan shows 57 music credits per the note above)

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
WB ____	Well-Being	1
TOTAL		19

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 1	4
CH 351	Organic Chemistry 1	4
CH 352	Organic Chemistry 2	4
CH 361	Introduction to Biochemistry	3
CH 362	Biochemistry 1	3
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

Note that some courses have additional prerequisites

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	
TOTAL		61

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