

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

- 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 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. 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 Mathematics 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
MA 106*	Calculus & Anal. Geo. 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
MA 107	Calculus & Anal. Geo. 2	4
MA 108	First-Year Problem Solving	1
Language Elective		3

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

TOTAL Credit Hours: 18 19

**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

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

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 211	Aural Skills 3	1	MT 202	Music Theory 4	3
			MT 212	Aural Skills 4	1
MA 200	Introduction to Proofs	3	MA 205	Discrete Mathematics	3
MA 208	Calculus & Anal. Geo. 3	4	MA 310	Linear Algebra	3
TOTAL Credit Hours:		15			15

Semester 5

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 308-SJD	Music in Global Contexts	3
GHS ____	Global and Historical Studies	3
PWB ____	Physical Well-Being	1
MA ____	MA Elective	3
Programming elective (CS 142 or higher)		3
TOTAL Credit Hours:		16

Semester 6

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 305	Music History 1	2
SW ____	The Social World	3
MA 330	Complex Analysis	3
MA 412	Algebra: Groups	3
MA ____	MA Elective	3
TOTAL Credit Hours:		17

Semester 7

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 306	Music History 2	3
GHS ____	Global and Historical Studies	3
MA 426	Analysis: Theory of Calculus	3
MA ____	MA 413 or MA 427	3
TOTAL Credit Hours:		15

Semester 8

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
ME 430	E-Portfolio Capstone	0
MH 307	Music History 3	3
NW ____	The Natural World	5
TI ____	Texts and Ideas	3
MA ____	MA Elective	3
TOTAL Credit Hours:		17

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
*AM 031 & AM 032 if major instrument is piano		
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
TOTAL		44 (plan shows 56 music credits per the note above)

UNIVERSITY CORE 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 (if needed)	3
TI ____	Texts and Ideas	3
PWB ____	Physical Well-Being	1
TOTAL		24

COURSES REQUIRED FOR THE MATHEMATICS MAJOR:

MA 106*	Calculus & Anal Geometry 1	4
MA 107	Calculus & Anal Geometry 2	4
MA 108	First-Year Problem Solving	1
MA 200	Introduction to Proofs	3
MA 205	Discrete Mathematics	3
MA 208	Calculus & Anal Geometry 3	4
MA 310	Linear Algebra	3
MA 330	Complex Analysis	3
MA 412	Algebra: Groups	3
MA 426	Analysis: Theory of Calculus	3
ONE of the following:		3
MA 413	Algebra: Rings and Fields	
MA 427	Analysis: Lebesgue Integration	

Math Electives, chosen from MA 301,305,311-399,413-428,473	3,3,3
Programming Elective (CS 142 or higher)	3
Language	6 hours of the same language at the 200-level or higher
TOTAL	52

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