

B.A. IN MUSIC PLUS A SECONDARY MAJOR IN ACTUARIAL SCIENCE

- 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 Actuarial Science 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 an Actuarial Science 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
PWB ____	Physical Well-Being	1
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
MS 100	Business Appl with Excel	2
Language Elective		3

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

TOTAL Credit Hours: 19 20

**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
ME 330	Self-Represent for Musicians	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
MT 202	Music Theory 4	3
MT 212	Aural Skills 4	1

MT 211	Aural Skills 3	1			
			GHS ____	Global and Historical Studies	3
			TI ____	Texts and Ideas	3
AC 203	Introduction to Accounting 1	3	MA 361	Statistical Theory	3
MA 208	Calculus & Anal. Geo. 3	4	MA 363	Probability Theory 2	3
MA 360	Probability Theory 1	3			
TOTAL Credit Hours:		19			20

Semester 5

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 308-SJD	Music in Global Contexts	3
SW ____	The Social World (if needed)	3
CS 142	Intro to Comp Sc & Program	3
MA 395	Financial Mathematics	4
MA 397	Actuarial Mathematics 1	3

TOTAL Credit Hours: 19

Semester 6

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 305	Music History 1	2
NW ____	The Natural World	5
MA 310	Linear Algebra	3
MA 398	Actuarial Mathematics 2	3
MS 265	Information Technology	3

TOTAL Credit Hours: 19

Semester 7

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 306	Music History 2	3
GHS ____	Global and Historical Studies	3
EC 231	Principles of Microeconomics	3
FN 340	Corporate Finance	3
MA 362	Linear Regression & Time Ser	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
EC 232	Principles of Macroeconomics	3
MA 372	Loss Models	3
MA 399	Financial Derivatives	3
MA 495	Math for Invest & Fin Markets	3

TOTAL Credit Hours: 18

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 & 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
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 ACTUARIAL SCIENCE MAJOR:

MA 106*	Calculus & Anal Geometry 1	4
MA 107	Calculus & Anal Geometry 2	4
MA 208	Calculus & Anal Geometry 3	4
MA 310	Linear Algebra	3
MA 360	Probability Theory 1	3
MA 361	Statistical Theory	3
MA 362	Linear Regression and Time Series	3
MA 363	Probability Theory 2	3
MA 372	Loss Models	3
MA 395	Financial Mathematics	4
MA 397	Actuarial Mathematics 1	3
MA 398	Actuarial Mathematics 2	3
MA 399	Financial Derivatives	3
Language	6 hours of the same language at the 200-level or higher	
TOTAL		49

**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.*

Additional Recommended Courses for the Actuarial Science major (included in the plan above):

AC 203	Introduction to Accounting 1	3
CS 142	Intro to Comp Sc & Programming	3
EC 231	Principles of Microeconomics	3
EC 232	Principles of Macroeconomics	3
FN 340	Corporate Finance	3
MA 495	Math for Investments & Financial Markets	3
MS 100	Business Applications with Excel	2
MS 265	Information Technology	3
<i>TOTAL</i>		<i>23</i>

NOTE: Nine credits of business courses exempts the student from taking a Social World elective.

In addition, Actuarial Science majors are strongly encouraged to pass the CAS/SOA Exams P (probability) and FM (mathematics of finance), and obtain a summer internship while still an undergraduate.