

**B.A. IN MUSIC PLUS A SECONDARY MAJOR IN STATISTICS**

- 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 Statistics 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 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 Statistics 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
WB ____	Well-Being	1
MA 106*	Calculus & Anal. Geo. 1	4
Language Elective		3

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

TOTAL Credit Hours: 19

**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
Language Elective		3

TOTAL Credit Hours: 18

*\*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
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

GHS ____	Global and Historical Studies	3	GHS ____	Global and Historical Studies	3
MA 162	Elementary Statistics	3	MA 310	Linear Algebra	3
TOTAL Credit Hours:		14			15

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#### **Semester 5**

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 305	Music and Devotion	3
NW ____	The Natural World	5
MA 360	Probability Theory 1	3
MA 362	Linear Regression & Time Ser	3
TOTAL Credit Hours:		17

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#### **Semester 6**

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 306	Music and Narrative	3
CS 142	Intro to Comp Sc & Prog	3
MA 361	Statistical Theory	3
MA 364	Design of Experiments	3
TOTAL Credit Hours:		15

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#### **Semester 7**

AM ____	Major Instrument or Voice	2
ES ____	Major Ensemble	1
MH 307	Music, Globalization & Industry	3
TI ____	Texts and Ideas	3
MA 369	Multivariate Statistical Meth	3
MA 468	Predictive Analy & Data Mining	3
MA ____	MA 491 or MA 492	1
TOTAL Credit Hours:		16

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#### **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
SW ____	The Social World	3
MA 467	Nonparametric Statis Meth	3
MA 469	Advanced Statistical Comp	3
TOTAL Credit Hours:		15

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## 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
<b>TOTAL</b>		<b>47 (plan shows 57 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
NW ____	The Natural World	5
SW ____	The Social World	3
TI ____	Texts and Ideas	3
WB ____	Well-Being	1
<b>TOTAL</b>		<b>24</b>

### COURSES REQUIRED FOR THE STATISTICS MAJOR:

CS 142	Intro to Comp Sc and Program	3
MA 106*	Calculus & Anal Geometry 1	4
MA 107	Calculus & Anal Geometry 2	4
MA 162	Elementary Statistics	3
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 364	Design of Experiments	3
MA 369	Multivariate Statistical Methods	3
MA 467	Nonparametric Statistical Methods	3
MA 468	Predictive Analytics and Data Mining	3
MA 469	Advanced Statistical Computing	3

ONE of the following:

1

MA 491 Internship

MA 492 Professional Experience for Majors

Language 6 hours of the same language at the 200-level or higher

***TOTAL***

**48**

*\*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.*