



Miami University  
**Mathematics**  
 Associate of Science to  
 Bachelor of Arts

Effective beginning Academic Year 2019-20 (Last revised June 18, 2021)

The following table outlines how transfer credits will be applied to the Bachelor of Arts in Mathematics degree at Miami University for students who completed an Associate of Science degree via the Ohio Guaranteed Mathematics (AS to BA) Transfer Pathway. The OGTP designation guarantees the transfer and applicability of credits, but does not guarantee admission to a program. Some bachelor-degree granting programs may be competitive, and students should check with individual institutions for their program admission requirements.

COURSE EQUIVALENCIES FROM THE ASSOCIATE DEGREE	Course Number	Credit Hours
<b>GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36</b>		
Any Ohio Transfer 36 approved First Writing (TME001) course	ENG 111	3
Calculus I (TMM005)	MTH 151	5
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Arts and Humanities course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Social and Behavioral Sciences course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Natural Sciences course	Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Natural Sciences course with lab	Ohio Transfer 36 Elective*	3-4
Any Ohio Transfer 36 approved Second Writing (TME002) course	ENG 112	3
Calculus II (TMM006)	MTH 249 or MTH 251	4-5
Up to 3-4 additional hours of Ohio Transfer 36 approved courses	Ohio Transfer 36 Elective*	0-4
<b>PRE-MAJOR/BEGINNING MAJOR</b>		
Calculus III (OMT018)	MTH 252	4
Elementary Linear Algebra (OMT019)	MTH 222	3
Elementary Differential Equations (OMT020)	MTH 245	3
<b>OTHER RECOMMENDATIONS</b>		
General Electives as needed (May include FYE or Orientation course) <sup>1</sup>	Varies*	9-17
<b>TOTAL HOURS FROM ASSOCIATE DEGREE</b>		<b>60-65</b>
Advising Notes: (*) Indicates that coursework will be evaluated for applicable equivalency upon transfer at the university. If a Transfer Assurance Guide (TAG) course is taken, the approved course equivalency will be awarded. <sup>1</sup> Miami University recommends two semesters of foreign language be taken during the associate degree if possible, or that credit has been earned via an approved Advanced Placement or International Baccalaureate exam through the end of the beginning level (or higher). The College of Arts & Sciences (CAS) requires that students earn credit in a foreign language at or beyond the 202-level. If not taken during the associate degree, up to four semesters of foreign language may need to be taken upon transfer.		

**SPECIAL NOTES**

Students with plans of pursuing a pre-professional or graduate studies track in the future should work closely with their academic advisor and receiving institution starting in the first year of their program in order to adequately prepare themselves for those types of tracks. Some pre-professional degrees include pre-medicine, pre-veterinary, pre-law, and pre-dentistry.

Effective beginning Academic Year 2019-20 (Last revised June 18, 2021)

The following additional coursework will be required to complete the Bachelor of Arts in Mathematics degree at Miami University after a student has completed their Associate of Science Ohio Guaranteed Mathematics (AS to BA) Transfer Pathway degree. Some bachelor-degree granting programs may be competitive and admission into the program is not guaranteed. Students should check with individual institutions for their program admission requirements.

REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE		Course Number	Credit Hours
Major Core Course/ Advanced Writing Requirement:	Proof: Introduction to Higher Mathematics	MTH 331	3
Major Core Course:	Introduction to Abstract Algebra or Real Analysis	MTH 421 or MTH 441	3-4
Major Core Course:	Choose one of the following courses: MTH 432, 435, 436, 437, 438, 439, 447, 453, 495, or STA 401	MTH 432, 435, 436, 437, 438, 439, 447, 453, 495, or STA 401	3
Major Elective Courses/ Capstone:	Mathematics or Statistics Electives at the 300/400 level, should include capstone <sup>1</sup>	Varies	9-10
Major Core Course:	Related Area - Part I: CSE course	Varies	3
Major Core Course/ Thematic Sequence:	Related Area - Part II: cluster of courses in one of: ACC, CHM, CSE, ECO, ECE, PHY, or STA <sup>2</sup>	Varies	12
Divisional Requirement:	First (if needed) and Second year of selected foreign language sequence	101, 102, 201, and 202	6-14
General Education:	Experiential Learning Requirement	Varies	3
General Education:	Intercultural Perspectives Course	Varies	3
General Education:	Global Perspectives Courses	Varies	6
General Education:	Thematic Sequence Course #1	Varies	3
General Education:	Thematic Sequence Course #2	Varies	3
General Education:	Thematic Sequence Course #3	Varies	3
General Electives:	General Electives <sup>3</sup>	Varies	3
<b>REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL:<sup>4</sup></b>			<b>63-71</b>
Advising Notes: <sup>1</sup> This program requires at least 19 semester hours in MTH or STA at the 300+ level, with at least 16 hours at the 400+ level. The capstone course requirement will be met if MTH 425, MTH 435, or MTH 482 are taken among these credit hours. <sup>2</sup> At least six hours must be advanced level. In CHM, CSE, and PHY, this is any course at the 200+ level. In ACC, ECO, ECE, and STA, this is any course at the 300+ level. <sup>3</sup> Students are required to attend an orientation session and will meet with an advisor to review the coursework coming in, as well as what they should register for the following semester. At this time, the divisional requirements for CAS will be addressed so that students are able to be efficient in their course selection. <sup>4</sup> Miami University requires a total of 124 credit hours for degree completion. The total number of hours to complete the bachelor's degree represents a range of hours that may be needed depending on the individual course selections made during the associate degree program.			

COMPLETE BACHELOR'S DEGREE	Total Credit Hours
<b>BACHELOR'S DEGREE TOTAL:</b>	<b>124</b>

### SPECIAL NOTES

For more information, please contact:  
College of Arts & Sciences Advising Office  
casadvising@miamioh.edu  
(513) 529-3031  
<http://miamioh.edu/cas/academics/advising/>

### SAMPLE DEGREE MAP

#### THIRD YEAR

SEMESTER 5		SEMESTER 6	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
MTH 331 Proof: Introduction to Higher Mathematics	3	MTH 421 Introduction to Abstract Algebra or MTH 441 Real Analysis	3-4
Related Area - Part I: CSE	3	MTH 400+ Level	3
Foreign Language 201	3	Foreign Language 202	3
Related Area - Part II	3	Related Area - Part II	3
Thematic Sequence #1	3	Thematic Sequence #2	3
<b>Total Semester 5 Credit Hours</b>	<b>15</b>	<b>Total Semester 6 Credit Hours</b>	<b>15-16</b>

#### FOURTH YEAR

SEMESTER 7		SEMESTER 8	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
MTH 435 Mathematical Modeling Seminar or MTH 453 Numerical Analysis	3	MTH or STA 400+ Level	3-4
MTH 400+ Level	3-4	Related Area - Part II	3
Related Area - Part II	3	Experiential Learning Requirement	3
Thematic Sequence #3	3	Global Perspectives Course	3
Global Perspectives Course	3	Intercultural Perspectives Course	3
General Electives/Divisional Requirement	2	General Electives/Divisional Requirement	2
<b>Total Semester 7 Credit Hours</b>	<b>17-18</b>	<b>Total Semester 8 Credit Hours</b>	<b>17-18</b>