

# Mathematics

## Associate of Science to Bachelor of Arts

Effective beginning Academic Year 2019-20 (Last revised July 13, 2021)

GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER 36		Course Number	Credit Hours
ENGLISH COMPOSITION AND ORAL COMMUNICATION:			3
Course 1:	Any Ohio Transfer 36 approved First Writing (TME001) course	ENGL 161	3
MATHEMATICS, STATISTICS, AND LOGIC:			5
Course 1:	Calculus I (TMM005) <sup>1</sup>	MTHM 181	5
ARTS AND HUMANITIES:			6
+ Course 1:	Any Ohio Transfer 36 approved Arts and Humanities course	HUMS 151G	3
+ Course 2:	Any Ohio Transfer 36 approved Arts and Humanities course	PHLY 151G or PHLY 161	3
SOCIAL AND BEHAVIORAL SCIENCES:			6
+ Course 1:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	PSYH 151	3
+ Course 2:	Any Ohio Transfer 36 approved Social and Behavioral Sciences course	SOCY 151G	3
NATURAL SCIENCES:			7
Course 1:	Any Ohio Transfer 36 approved Natural Sciences course	ASTY 152, BIOG 159, BIOG 164, or BIOG 165	3
Course 2:	Any Ohio Transfer 36 approved Natural Sciences course with lab	ASTY 151, BIOG 151, BIOG 152, or BIOG 163	4
ADDITIONAL CREDITS: <sup>2</sup>			11
Course 1:	Any Ohio Transfer 36 approved Second Writing (TME002) course	ENGL 162	3
Course 2:	Calculus II (TMM006)	MTHM 182	5
Course 3:	Up to 3-4 additional hours of Ohio Transfer 36 approved courses	MTHM 270	3
<b>GENERAL EDUCATION/OHIO TRANSFER 36 TOTAL:</b>			<b>38</b>
<p>Advising Notes: Where it indicates "Any Ohio Transfer 36 approved," students should work closely with their advisors. (+) indicates that the courses chosen should be from two different areas within that category. <sup>1</sup> A prerequisite, such as College Algebra (TMM001), may be needed for a student to reach Calculus I (TMM005). <sup>2</sup> Due to the variability across institutions, students should work with their academic advisor to determine an appropriate program of study and appropriate amount of additional credits to satisfy the Ohio Transfer 36.</p>			

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PRE-MAJOR/BEGINNING MAJOR		Course Number	Credit Hours
Course 1:	Calculus III (OMT018)	MTHM 281	4
Course 2:	Elementary Linear Algebra (OMT019)	MTHM 280	4
Course 3:	Elementary Differential Equations (OMT020)	MTHM 283	3
PRE-MAJOR/BEGINNING MAJOR TOTAL:			11

OTHER REQUIREMENTS		Course Number	Credit Hours
Electives:	General Electives as needed (May include FYE or Orientation course) <sup>1</sup>	SDEV 101	1
		CMPR 166 or MTHM 168	3
		SPNH 151G	4
		SPNH 152G <sup>2</sup> (under review) <sup>2</sup>	4
OTHER REQUIREMENTS TOTAL:			12

**Advising Notes:**

<sup>1</sup> Certain institutions may require two semesters or more of foreign language for Bachelor of Arts and Bachelor of Science degrees. If so, foreign language should be taken – check with your receiving institution. Additional recommended pre-major/major coursework may include a course in programming or proofs. Consult with your academic advisor and your receiving institution to determine an appropriate program of study.

<sup>2</sup> “To be submitted” or “under review” indicates that the course does not currently carry the statewide course equivalency guarantee. However, the institution is working towards this goal. Please consult with your institution’s point of contact listed below for guidance on enrollment in this course.

ASSOCIATE DEGREE	Total Credit Hours
ASSOCIATE DEGREE TOTAL:	61

### 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.

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.

Some bachelor-degree granting institutions require additional general education courses outside of the Ohio Transfer 36 and students may be required to take these courses in their junior or senior year. Students will still be able to follow this pathway and complete their bachelor’s degree in approximately 60 additional credit hours.

For more information, please contact:

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### SAMPLE DEGREE MAP

#### FIRST YEAR

SEMESTER 1		SEMESTER 2	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
CMPR 166 Introduction to Computer Science or MTHM 168 Statistics	3	ASTY 152 Solar System Astronomy, BIOG 159 Aquatic Life, BIOG 164 Environmental Monitoring, or BIOG 165 Introduction to Ecology	3
ENGL 161 College Composition	3	ENGL 162 College Composition II	3
MTHM 181 Calculus I	5	MTHM 182 Calculus II	5
PSYH 151 Introduction to Psychology	3	SOCY 151G Introduction to Sociology	3
SDEV 101 College 101	1		
<b>Total Semester 1 Credit Hours</b>	<b>15</b>	<b>Total Semester 2 Credit Hours</b>	<b>14</b>

#### SECOND YEAR

SEMESTER 3		SEMESTER 4	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
ASTY 151 Stars, Galaxies and Cosmology, BIOG 151 General Biology, BIOG 152 Human Biology, or BIOG 163 The Microbial World	4	HUMS 151G Introduction to Humanities	3
MTHM 280 Linear Algebra	4	MTHM 270 Discrete Mathematics	3
MTHM 281 Multivariable Calculus	4	MTHM 283 Differential Equations	3
SPNH 151G Elementary Spanish I	4	PHLY 151G Introduction to Philosophy or PHLY 161 Introduction to Ethics	3
		SPNH 152G Elementary Spanish II	4
<b>Total Semester 3 Credit Hours</b>	<b>16</b>	<b>Total Semester 4 Credit Hours</b>	<b>16</b>