

Mathematics

Associate of Science to Bachelor of Science

Effective beginning Academic Year 2019-20 (Last revised January 31, 2020)

GENERAL EDUCATION REQUIREMENTS/OHIO TRANSFER MODULE		Course Number	Credit Hours
ENGLISH COMPOSITION AND ORAL COMMUNICATION:			3
Course 1:	Any OTM approved First Writing (TME001) course	ENG 1101	3
MATHEMATICS, STATISTICS, AND LOGIC:			5
Course 1:	Calculus I (TMM005) ¹	MAT 2270	5
ARTS AND HUMANITIES:			6
+ Course 1:	Any OTM approved Arts and Humanities course	PHI 2205	3
+ Course 2:	Any OTM approved Arts and Humanities course	HIS 1111	3
SOCIAL AND BEHAVIORAL SCIENCES:			6
+ Course 1:	Any OTM approved Social and Behavioral Sciences course	PSY 1100	3
+ Course 2:	Any OTM approved Social and Behavioral Sciences course	ECO 2160	3
NATURAL SCIENCES:			10
Course 1:	Calculus-based Physics I with lab (OSC016)	PHY 2201/2207	5
Course 2:	Calculus-based Physics II with lab (OSC017) or any OTM approved Natural Sciences course	PHY 2202/2208	5
ADDITIONAL CREDITS: ²			8
Course 1:	Any OTM approved Second Writing (TME002) course	ENG 1201	3
Course 2:	Calculus II (TMM006)	MAT 2280	5
GENERAL EDUCATION/OHIO TRANSFER MODULE TOTAL:			38
<p>Advising Notes: Where it indicates "Any OTM approved," students should work closely with their advisors. (+) indicates that the courses chosen should be from two different areas within that category. ¹ A prerequisite, such as College Algebra (TMM001), may be needed for a student to reach Calculus I (TMM005). ² 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 OTM.</p>			

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.

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PRE-MAJOR/BEGINNING MAJOR		Course Number	Credit Hours
Course 1:	Calculus III (OMT018)	MAT 2290	5
Course 2:	Elementary Linear Algebra (OMT019)	MAT 2320	3
Course 3:	Elementary Differential Equations (OMT020)	MAT 2310	4
PRE-MAJOR/BEGINNING MAJOR TOTAL:			12

OTHER REQUIREMENTS		Course Number	Credit Hours
Electives:	General Electives as needed (May include FYE or Orientation course) ¹	SOC 1145	3
		COM 2211	3
		SCC 1101	1
		EGR 2261	4
OTHER REQUIREMENTS TOTAL:			11

Advising Notes:

¹Certain 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.

ASSOCIATE DEGREE	Total Credit Hours
ASSOCIATE DEGREE TOTAL:	61

SPECIAL NOTES

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 Module 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
MAT 2270 Calculus & Analytical Geometry I	5	MAT 2280 Calculus & Analytical Geometry II	5
ENG 1101 English Composition I	3	PHY 2201/2207 General Physics I with Lab	5
EGR 2261 Engineering Problem Solving Using "C" and "C++"	4	PHI 2205 Introduction to Philosophy	3
PSY 1100 General Psychology	3	ENG 1201 English Composition II	3
Total Semester 1 Credit Hours	15	Total Semester 2 Credit Hours	16

SECOND YEAR

SEMESTER 3		SEMESTER 4	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
MAT 2290 Calculus & Analytical Geometry III	5	MAT 2310 Elementary Differential Equations	4
PHY 2202/2208 General Physics II with Lab	5	MAT 2320 Linear Algebra	3
COM 2211 Effective Public Speaking	3	HIS 1111 Western Civilization I	3
ECO 2160 Principles of Macroeconomics	3	SOC 1145 Introduction to Cultural Anthropology	3
		SCC 1101 First Year Experience	1
Total Semester 3 Credit Hours	16	Total Semester 4 Credit Hours	14