

The following table outlines how transfer credits will be applied to the Bachelor of Science in Mathematics degree at Kent State University for students who completed an Associate of Science degree via the Ohio Guaranteed Mathematics (AS to BS) 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 11011	3
Calculus I (TMM005)	MATH 12002	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
Calculus-based Physics I with lab (OSC016)	PHY 23101	5
Calculus-based Physics II with lab (OSC017) or any Ohio Transfer 36 approved Natural Sciences course <sup>1</sup>	PHY 23102 or Ohio Transfer 36 Elective*	3
Any Ohio Transfer 36 approved Second Writing (TME002) course	ENG 21011	3
Calculus II (TMM006)	MATH 12003	5
Up to 3 additional hours of Ohio Transfer 36 approved courses	Ohio Transfer 36 Elective*	3
<b>PRE-MAJOR/BEGINNING MAJOR</b>		
Calculus III (OMT018)	MATH 22005	4
Elementary Linear Algebra (OMT019)	MATH 21001	3
Elementary Differential Equations (OMT020)	MATH 32044	3
<b>OTHER RECOMMENDATIONS</b>		
General Electives	Varies*	7-12
<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> Kent State University does not require Calculus-based Physics II with lab (OSC017) so students may take any Ohio Transfer 36 approved Natural Sciences course.		

### 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.

The following additional coursework will be required to complete the Bachelor of Science in Mathematics degree at Kent State University after a student has completed their Associate of Science Ohio Guaranteed Mathematics (AS to BS) 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
University Requirement:	Domestic Diversity Course (if not already completed during the associate degree) <sup>1</sup>	Varies	0-3
University Requirement:	Global Diversity Course (if not already completed during the associate degree) <sup>1</sup>	Varies	0-3
College Requirement:	Foreign Language - Elementary I and II	Varies	8
Major Requirement:	Decision-Making Under Uncertainty	MATH 20011	3
Major Requirement:	Proofs in Discrete Mathematics	MATH 31011	3
Major Requirement:	Modern Algebra I	MATH 41001	3
Major Requirement:	Modern Algebra II	MATH 41002	3
Major Requirement:	Analysis I	MATH 42001	3
Major Requirement:	Analysis II	MATH 42002	3
Major Requirement:	Theory of Matrices	MATH 41021	3
Major Requirement:	Applied Mathematics Sequence	Varies	6-8
Major Requirement:	Pure Mathematics Electives	Varies	9
Major Requirement:	Allied Area Electives	Varies	6
Major Requirement:	Computer Science Elective	Varies	4
University Requirement:	General Electives <sup>2</sup>	Varies	0-6
<b>REMAINING COURSEWORK TO COMPLETE BACHELOR'S DEGREE TOTAL:<sup>3</sup></b>			<b>55-60</b>
Advising Notes: Completion of the Ohio Transfer 36 will satisfy the entire set of Kent Core requirements. <sup>1</sup> Students must complete the Kent State diversity course requirement, which includes one course with a domestic diversity focus and one course with a global diversity focus from the approved list. These can often be fulfilled as part of the associate degree with careful course selection. Please work with your advisor to identify appropriate courses. <sup>2</sup> The College of Arts and Sciences requires that students successfully complete a minimum of 39 upper-division credit hours. <sup>3</sup> Kent State requires a total of 120 credits hours for bachelor's 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>120</b>

SPECIAL NOTES
For more information, please contact: Department of Mathematical Sciences pathways@kent.edu <a href="https://www.kent.edu/math">https://www.kent.edu/math</a>

**SAMPLE DEGREE MAP**

**THIRD YEAR**

SEMESTER 5		SEMESTER 6	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
MATH 20011 Decision-Making Under Uncertainty	3	MATH 31011 Proofs in Discrete Mathematics	3
MATH 41021 Theory of Matrices	3	Pure Mathematics Elective	3
Computer Science Elective	4	Pure Mathematics Elective	3
Foreign Language - Elementary I	4	Allied Area Elective	3
		Foreign Language - Elementary II	4
<b>Total Semester 5 Credit Hours</b>	<b>14</b>	<b>Total Semester 6 Credit Hours</b>	<b>16</b>

**FOURTH YEAR**

SEMESTER 7		SEMESTER 8	
Course Name & Number	Credit Hours	Course Name & Number	Credit Hours
MATH 41001 Modern Algebra I	3	MATH 41002 Modern Algebra II	3
MATH 42001 Analysis I	3	MATH 42002 Analysis II	3
Applied Mathematics Sequence I	3-4	Applied Mathematics Sequence I	3-4
Allied Area Elective	3	Pure Mathematics Elective	3
General Elective	2-3	General Elective	2-3
<b>Total Semester 7 Credit Hours</b>	<b>14-16</b>	<b>Total Semester 8 Credit Hours</b>	<b>14-16</b>