

Mathematics Pathway

Science, Technology, Engineering & Mathematics Career Cluster

This Program of Study plan should serve as a guide in the development of secondary and post-secondary course planning for students. Courses listed within this plan are only recommended and are indicative of the courses needed to complete a Program of Study. The following items need to be considered:

- Courses in the arts and humanities are valued by post-secondary institutions for their cognitive benefits and in communicating and expressing the ideas and emotions of the human spirit.
- Post-secondary institutions have varying course requirements for admission including World Languages.

Grade	English	Math	Science	Social Studies	Other Required Courses	Pathway Electives Recommended	Credit Review		
	4.0	3.0	3.0	3.0	2.0	Recommended Sequence for Pathway (may adjust yearly as needed) [Minimum– 8.5 elective credits needed for graduation]	Grade	Graduation Credit Requirements	
High School	Grade 9	<ul style="list-style-type: none"> • English 9 (1.0) -OR- • Enriched English 9 (1.0) 	<ul style="list-style-type: none"> • Algebra I (1.0) 	<ul style="list-style-type: none"> • Earth Science (0.5) 	<ul style="list-style-type: none"> • US History (0.5) 	<ul style="list-style-type: none"> • Level I Physical Education (0.5) • Health 9 (0.5) 		4.0 Required <u>2.0</u> Elective 6.0Total	
	Grade 10	<ul style="list-style-type: none"> • English 10 (1.0) -OR- • Enriched English 10 (1.0) 	<ul style="list-style-type: none"> • Geometry (1.0) -OR- • Enriched Geometry (1.0) 	<ul style="list-style-type: none"> • Biology (1.0) 	<ul style="list-style-type: none"> • World Studies (1.0) -OR- • AP European Studies (1.0) 	<ul style="list-style-type: none"> • Level II Physical Education (0.5) 		4.5 Required <u>1.5</u> Elective 6.0Total	
	Grade 11	<ul style="list-style-type: none"> • English 11 (1.0) -OR- • AP Language & Composition (1.0) 	<ul style="list-style-type: none"> • Algebra II/Trigonometry (1.0) -OR- • Enriched Algebra II/Trigonometry (1.0) 	<ul style="list-style-type: none"> • Chemistry (1.0) 	<ul style="list-style-type: none"> • Government (0.5) -OR- • AP United States Government and Politics (0.5) 	<ul style="list-style-type: none"> • Level III Physical Education (0.5) 	<ul style="list-style-type: none"> • AP Calculus AB (1.0) • AP Calculus BC (1.0) 	<ul style="list-style-type: none"> • 11-12 • 11-12 	4.0 Required <u>2.0</u> Elective 6.0Total
	Grade 12	<ul style="list-style-type: none"> • English 12 (1.0) -OR- • AP Literature & Composition (1.0) 	<ul style="list-style-type: none"> • AP Statistics (1.0) -OR- • Precalculus (1.0) 	<ul style="list-style-type: none"> • Physics (1.0) -OR- • AP Physics C: Mechanics (1.0) 	<ul style="list-style-type: none"> • AP Psychology (1.0) -OR- • Psychology (0.5) -OR- • Sociology/Social Issues (0.5) -OR- • AP Economics (0.5) -OR- • Economics (0.5) 				2.5 Required <u>3.0</u> Elective 5.5Total
Course Code Key (see course catalog for further details)			28 Credits Possible		Other Related Courses and Activities (curricular, co-curricular, and extra-curricular)				
AP Advanced Placement AP Advanced Placement AS Advanced Standing TC Transcribed Credit YO Youth Options (0.5) Course is worth 0.5 credit (0.75) Course is worth 0.5 credit (non-TC) or 0.75 credit (TC) (1.0) Course is worth 1.0 credit			Credits Required Grades 9-1215.0 Minimum Electives..... <u>8.5</u> Credits for Graduation23.5		<ul style="list-style-type: none"> • Math Team • Principles of Engineering (1.0) • STEM Youth Apprenticeship (1.0) • World Languages • Skills USA • Introduction to Engineering Design (1.0) • Digital Electronics (1.0) • Preparation for College & Business Communications (1.0) 				

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Advisement provided through Student Services office and post-secondary transfer credits determined by college admissions counselors.
 Postsecondary credit transfer information also available at <http://www.uwsa.edu/tis>

Please visit the web site of institutions listed below for any program updates.

Post-Secondary Options	Baccalaureate Degree		Associate Degree Programs		Certificate/License
		<u>University of Wisconsin – Eau Claire</u> • Economics • Education – Mathematics • Mathematics	<u>University of Minnesota – Twin Cities</u> • Applied Economics • Economics • Mathematics • Statistics	<u>Chippewa Valley Technical College</u> • Liberal Arts – Associate of Science	
	<u>University of Wisconsin – Stout</u> • Applied Mathematics and Computer Science	<u>University of Wisconsin – Madison</u> • Education – Mathematics • Applied Math, Engineering and Physics • Economics • Mathematics • Statistics			
	Adult Apprenticeship, On-the-Job Training or Other		Employment Options		
		Careers		<ul style="list-style-type: none"> • Applied Mathematician • Economist • Math Teacher • Mathematician • Programmer • Quality Control Scientist • Research Technician • Statistician 	