



Design & Pre-Construction Pathway

Architecture & Construction 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.

High School	Grade	English	Math	Science	Social Studies	Other Required Courses	Pathway Electives Recommended	Credit Review	
	Required Credits	4.0	3.0	3.0	3.0	2.0	Recommended Sequence for Pathway (<i>may adjust yearly as needed</i>) [Minimum– 8.5 elective credits needed for graduation]	Grade	Graduation Credit Requirements
	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) 	<ul style="list-style-type: none"> Construction I (0.5) Introduction to Engineering Design (IED) (TC) (1.0) 	<ul style="list-style-type: none"> 9-12 9-12 	4.0 Required 2.0 Elective 6.0 Total
	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) 	<ul style="list-style-type: none"> Civil Engineering & Architecture (1.0) 	<ul style="list-style-type: none"> 10-12 	4.5 Required 1.5 Elective 6.0 Total
	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"> Physics (1.0) -OR- AP Physics C: Mechanics (1.0) Principals of Engineering (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"> Preparation for College & Business Communications (1.0) 	<ul style="list-style-type: none"> 11-12 	4.0 Required 2.0 Elective 6.0 Total
	Grade 12	<ul style="list-style-type: none"> English 12 (1.0) -OR- AP Literature & Composition (1.0) 	<ul style="list-style-type: none"> See post-secondary institution for math requirements 	<ul style="list-style-type: none"> See post-secondary institution for science requirements 	<ul style="list-style-type: none"> AP Psychology (1.0) -OR- Psychology (0.5) -OR- Sociology/Social Issues (0.5) AP Economics (0.5) -OR- Economics (0.5) 		<ul style="list-style-type: none"> Principles of Engineering (1.0) Personal Law (0.5) 	<ul style="list-style-type: none"> 11-12 11-12 	2.5 Required 3.0 Elective 5.5 Total
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 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.....8.5 Credits for Graduation23.5			<ul style="list-style-type: none"> Spanish I (1.0) Spanish II (1.0) Drawing I (0.5) Entrepreneurship (TC) (0.5) Chemistry (1.0) Precalculus (1.0) World Languages Architecture & Construction Youth Apprenticeship (1.0) Skills USA 				



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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 - Madison</u> <ul style="list-style-type: none"> Civil Engineering Electrical Engineering Engineering Mechanics Landscape Architecture Mechanical Engineer 	<u>University of Minnesota – Twin Cities</u> <ul style="list-style-type: none"> Architecture Civil Engineering Electrical Engineering Mechanical Engineer 	<u>Chippewa Valley Technical College</u> <ul style="list-style-type: none"> Civil Engineering Technician 		
	<u>University of Wisconsin - Stout</u> <ul style="list-style-type: none"> Engineering Technology 		<u>Madison Area Technical College</u> <ul style="list-style-type: none"> Civil Engineering Technology Electrical Engineering Technology 		
	Adult Apprenticeship, On-the-Job Training or Other		Employment Options		
		Careers	<ul style="list-style-type: none"> Architect Building Code Official Building Designer Civil Engineer Code Official Cost Estimator Drafter Electrical Engineer 	<ul style="list-style-type: none"> Electronic Engineer Environmental Designer Environmental Engineer Fire Prevention and Protection Engineer Industrial Engineer Interior Designer Landscape Architect 	<ul style="list-style-type: none"> Materials Engineer Mechanical Engineer Regional and Urban Planner/Designer Safety Director Specification Writer Structural Engineer Surveying and Mapping Technician