

Science Pathway



Science, Technology, Engineering & Mathematics Career Cluster

This Program of Study plan should serve as a <u>guide</u> 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 <u>arts</u> and <u>humanities</u> 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	
	Required Credits	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
	Grade 9	• English 9 (1.0) -OR- • Enriched English 9 (1.0)	• Algebra I (1.0)	• Earth Science (0.5)	• US History (0.5)	 Level 1 Physical Education (0.5) Health 9 (0.5) 	 <u>Physical Science</u> AP Physics C: Electricity & Magnetism (1.0) AP Chemistry (1.0) 	• 11-12 • 10-12	4.0 Required <u>2.0</u> Elective 6.0Total
	Grade 10	 English 10 (1.0) -OR- Enriched English 10 (1.0) 	• Geometry (1.0) -OR- • Enriched Geometry (1.0)	• Biology (1.0)	World Studies (1.0) -OR- AP European Studies (1.0)	Level II Physical Education (0.5)	Life & Environmental Science • Environmental Science A (0.5) • Environmental Science B	• 10-12 • 10-12	4.5 Required <u>1.5</u> Elective 6.0Total
High School	Grade 11	English 11 (1.0) -OR- AP Language & Composition (1.0) (recommended)	 Algebra II/Trigonometry (1.0) -OR- Enriched Algebra II/Trigonometry (1.0) 	Chemistry (1.0)	Government (0.5) -OR- AP United States Government and Politics (0.5)	Level III Physical Education (0.5)	 (0.5) Introduction to Human Anatomy & Physiology (0.5) Biotechnology (TC) (0.75) AP Biology (1.0) Earth & Space Science Oceanography/Meteorology (0.5) 	 10-12 10-12 10-12 9-12 	4.0 Required <u>2.0</u> Elective 6.0Total
	Grade 12	• English 12 (1.0) -OR- • AP Literature & Composition (1.0)	• AP Statistics(1.0) -OR- • Precalculus (1.0)	 Physics (1.0) -OR- AP Physics C: Mechanics (1.0) (Precalculus pre- requisite) 	 AP Psychology (1.0) -OR- Psychology (0.5) -OR- Sociology/Social Issues (0.5) AP Economics (0.5) -OR- Economics (0.5) 		 Astronomy/Geology (0.5) <u>Other</u> Principles of Engineering (1.0) -OR- Digital Electronics (1.0) Preparation for College & Business Communications (1.0) 	 9-12 11-12 10-12 11-12 	2.5 Required <u>3.0</u> Elective 5.5Total
	Course Code Key (see course catalog for further details) AP Advanced Placement (0.75) Course is worth 0.5 AS Advanced Standing credit (non-TC) or 0.75 TC Transcripted Credit credit (TC) YO Youth Options (1.0) Course is worth 1.0 (0.5) Course is worth 0.5 credit			28 Credits Possible Other Related Courses and Activities (curricular, co-curricular, and extra <u>Credits</u> • Skills USA • AP Calculus AB (1.0) Required Grades 9-12 • Skills USA • World Languages Credits for Graduation • 23.5 • Skills USA			and extra-	curricular)	



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Ad	visement provided thro	-	ce and post-secondary transfe ansfer information also availa	•	ege admissions counselors.		
		Please visit the web s	ite of institutions listed below	for any program updates.			
	Baccalaur	eate Degree	Associate Deg	Certificate/License			
t-Secondary Options	University of Wisconsin – Eau ClaireUniversity of Wisconsin – Madison• Biochemistry/Molecular Biology• Biochemistry• Biology• Biochemistry• Biology• Chemistry• Education• Genetics• Geology• Physics• Physics• Microbiology• Applied Science• Anthropology• Science Education• Astronomy-Physics• Applied Science• Aitmospheric & Oceanic Sciences• Science Education• Biochemistry• Biological Aspects of Conservation• Biology• Astrophysics• Chemistry• Astrophysics• Chemistry• Chemistry• Biology• Earth Sciences• Geology and Geophysics• Environment and Natural Resources• Microbiology• Microbiology• Molecular Biology• Physics• Molecular Biology		Chippewa Valley Technical College Alcohol and Other Drug Abuse Asso Clinical Laboratory Technician Diagnostic Medical Sonography Electromechanical Technology Liberal Arts – Associate of Science Nanoscience Technology Nursing Assistant Nursing Associate Degree Paramedic Technician Physical Therapist Assistant Radiography Respiratory Therapy	Chippewa Valley Technical College • EMT			
	Adult App On-the-Job Tr	renticeship, aining or Other	Employment Options				
			Physical Science Analytical Chemist Anthropologist Chemist Nuclear Chemist/Technician Physicist Any Science Area Research Technician Science Teacher Scientist	Life & Environmental Science Biologist Botanist Ecologist Environmental Scientist Geneticist Marine Scientist Nanobiologist Zoologist	Earth & Space Science • Archeologist • Astronomer • Astrophysicist • Atmospheric Scientist • Geologist • Geophysicist • Meteorologist		