



# HIGH SCHOOL

COURSE CATALOG

KENOSHA UNIFIED SCHOOL DISTRICT

### KUSD HIGH SCHOOLS



HILLCREST SCHOOL



TREMPER HIGH SCHOOL



HARBORSIDE ACADEMY



REUTHER CENTRAL HIGH SCHOOL



LAKEVIEW TECHNOLOGY ACADEMY



INDIAN TRAIL HIGH SCHOOL AND ACADEMY



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Note to Students
Students should refer to their specific schools to find out what courses are being offered at a particular school. All courses aren't offered at all schools.

#### **Dropping Courses**

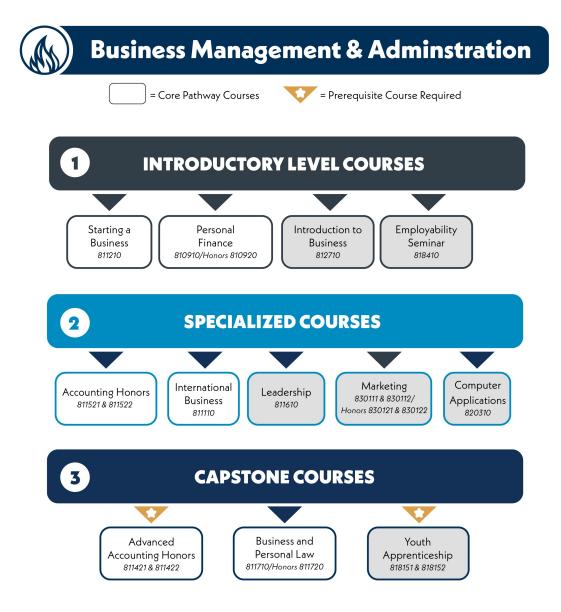
Students may withdraw from a course within 15 class days according to the school's guidelines provided that they have:

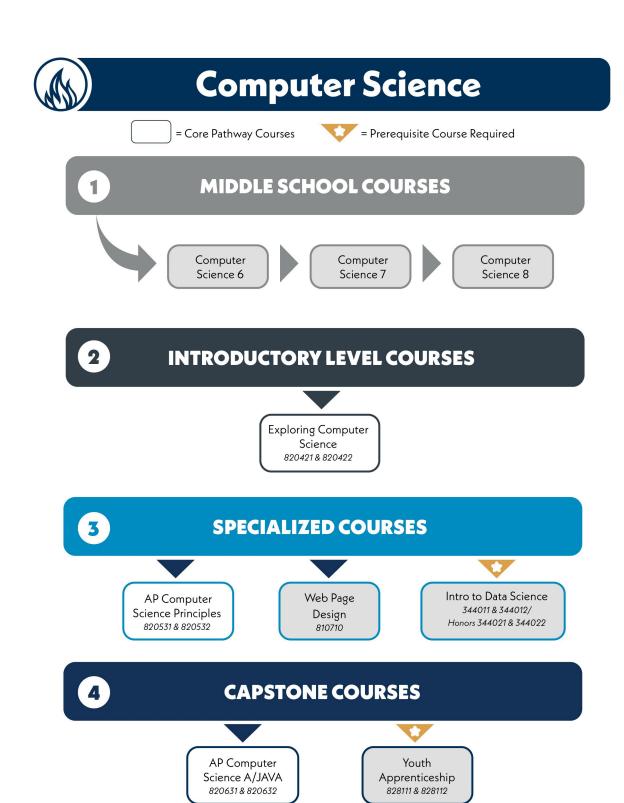
- 1. A recommendation of the teacher/counselor,
- 2. A written request from their parent/guardian, and
- 3. Administrative approval.

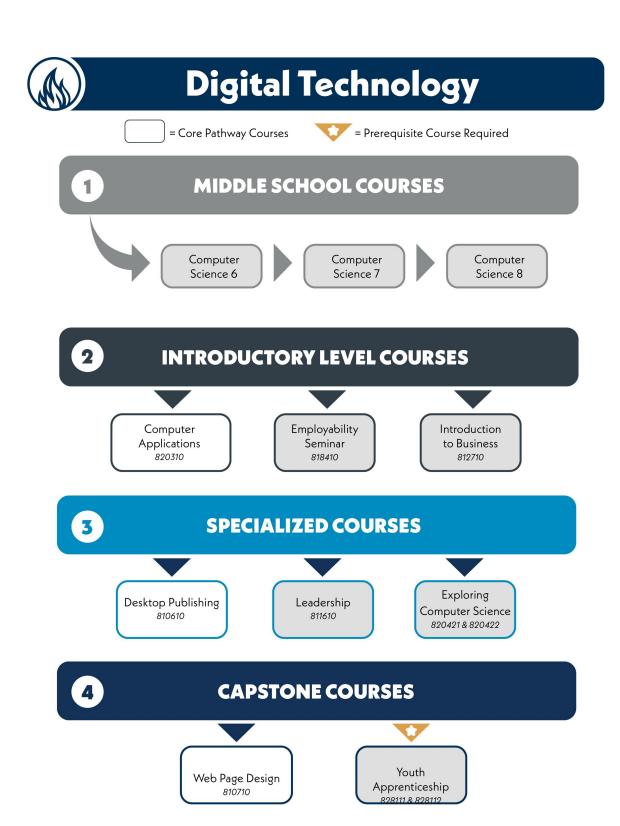
A failing grade will be given for courses dropped after the specified time. This failing grade will become part of the student's permanent record. A student who registers for a course and then fails to attend it is subject to disciplinary action and will receive a grade of F, which will become part of the student's permanent record

#### CAREER AND TECHNICAL EDUCATION

#### **BUSINESS AND INFORMATION TECHNOLOGY**









# **Marketing Sales & Service**









	COU	IRSES
Desktop Publishing	810610	Prerequisites: None
½ credit		
		Description: Learn design skills that are
		needed in promoting a business and personal
		life using Adobe InDesign. Projects include
		designing advertisements, newsletters, pro-
		duct labels, posters, business cards, and
		announcements using graphics, objects, fonts,
		etc.
Web Page Design	810710	Prerequisites: None
½ credit		
		Description: In this course students will use a
		variety of design software to organize, create,
		publish, and manage a web site. Course con-
		tent includes creating a variety of graphic
		elements, including video, animations,
		rollover effects, backgrounds, and page
Daysonal Finance	810910	images.  Prerequisites: Grades 10 through 12 only
Personal Finance ½ credit	810910	Prerequisites: Grades 10 through 12 only
72 Credit		Description: Students will develop the skills
		needed to make sound financial decisions both
		now and in the future. Topics include money
		management, banking, budgeting, payroll,
		taxes, saving and investing, credit, and
		insurance.
		This course meets the Kenosha Unified School
		District requirement for consumer education
		<b>credit</b> and meets Wisconsin Financial Literacy
		Standards.
Personal Finance Honors	810920	Prerequisites: Grades 10 through 12 only
½ credit		
		Description: Students will develop the skills
		needed to make sound financial decisions both
		now and in the future. Topics include money
		management, banking, budgeting, payroll
		taxes, saving and investing, credit and
		insurance. There are additional topics,
		assignments, and projects for honors credit.
		This course meets the requirement for
		<b>consumer education credit</b> and meets Wisconsin Financial Literacy Standards.

International Business	811110	Prerequisites: None
½ credit		Description: This course provides a foundation for becoming informed about the global business environment. Students will be introduced to the basic principles of international business, including monetary exchange rates, exports and imports, and custom and immigration policies, and learn about the employee-employer relationship in a global economy.
Starting a Business  1/2 credit	811210	Prerequisites: None
72 Clouit		Description: In this business course, students will learn about different business models, their objectives, and ethical and social responsibilities related to employees, customers, and managing business risks. Students will learn business principles and skills required to operate a business.
Advanced Accounting Honors	811421 811422	Prerequisites: Accounting (811411 and 811412)
1 credit		Description: Corporate and managerial accounting will be emphasized. After completing this course, students will have a major advantage when taking college accounting and possess the skills necessary for entry-level accounting and bookkeeping careers. This course is also recommended for students who want to own their own business.
Accounting Honors 1 credit	811521 811522	Prerequisites: None
		Description: Accounting is the language of business. During the course students will prepare financial records, develop financial reports, enhance general knowledge of business, and learn payroll and taxes. This course provides an excellent background and preparation for college business majors.
Leadership ½ credit	811610	Prerequisites: None
/2 STOUR		Description: This class is designed to teach students leadership skills that will be important to their future, regardless of career goals. The course teaches several of the basic skills

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		identified as crucial for success in the future,
		including problem solving and creative think-
		ing, self-esteem, goal setting and motivation,
		interpersonal skills and teamwork, situational
		leadership, and communication. The class em-
		phasizes small group work and hands-on
		experiences.
Business and Personal Law 1/2 credit	811710	Prerequisites: None
		Description: Laws are a part of everyday life.
		Learn your legal rights and responsibilities
		through speakers, debates, and mock trials.
		Gain knowledge of legal problems; and de-
		velop the ability to analyze, evaluate, and
		resolve legal disputes. Learn how the legal
		system impacts you.
<b>Business and Personal Law</b>	811720	Prerequisites: None
<b>Honors</b>		
½ credit		Description: This course is for students who
		desire honors credit for Business and Personal
		Law. This honors credit option course is ideal
		for students that desire a more in-depth under-
		standing of the law or are planning to pursue
		any type of business-based degree after high
		school. Students taking this honors credit
		option will focus more in depth on key
		concepts of the legal system, including
		criminal law, tort law, civil law, contract law,
		and ethics. Students will delve into law in the
		news, how court systems work, and key
		Supreme Court cases. Honors credit students
		will also take leadership roles in class debates
		and mock trials.
Introduction to Business	812710	Prerequisites: None
½ credit		D
		Description: This is an introductory business
		course designed to provide students with the
		skills needed to effectively live in our world.
		Students are introduced to leadership,
		computer applications, starting a business,
		accounting, desktop publishing, marketing,
		web page design, international business,
		business and personal law, personal finance,
		and career exploration.

THE TYPE IA	010171	B
Finance—YAP Level 1	818151	Prerequisites: Corequisite—Student must be
2 credits	818152	enrolled in a course within a related pathway.
		Description: The Finance Youth
		Apprenticeship Program is a one- or two-year
		apprenticeship. Students earn credit and get
		paid for working for a local business. Stu-
		dents will receive a certificate from the state
		upon successful completion of the program.
Finance—YAP Level 2	818153	
2 credits	818154	Prerequisites: Corequisite—Student must be
2 credits	818134	enrolled in a course within a related pathway.
		Description: The Finance Youth
		Apprenticeship Program is a one- or two-year
		apprenticeship. Students earn credit and get
		paid for working for a local business. Stu-
		dents will receive a certificate from the state
		upon successful completion of the program.
<b>Employability Seminar</b>	818410	Prerequisites: None
½ credit		
		Description: Students will learn about
		employability skills (e.g., job search, resume,
		application letter, interview skills, etc.) soft
		skills, business practices, and how to conduct
		themselves in a professional and ethical
		manner.
Computer Applications	820310	Prerequisites: None
½ credit	020310	Trerequisites. Trone
72 Cicuit		Description: Students in this course will learn
		Description: Students in this course will learn
		and use the core programs of the industry-
		leading Microsoft Office Suite. Students will
		learn and use these business-preferred
		programs to electronically communicate,
		share, organize, and problem solve in our
		information-intensive society. Learning
		Microsoft Office skills will prepare students
		for positions in any organization.
		Students will learn and apply Microsoft Office
		software applications, including Windows
		11
		(features and apps), Word (word processing),
		Excel (spreadsheets), and PowerPoint
		(presentation software) to compose, organize,
		create, and communicate information.

		Students will integrate these programs with
		email and internet to prepare documents and
		complete projects.
Exploring Computer Science	820421 829422	Prerequisites: None
Science	029422	Description: Exploring Computer Science teaches the creative, collaborative, interdisciplinary, and problem-solving nature of computing with instructional materials, which feature a fun, inquiry-based approach to learning and teaching. Exploring computer Science is designed to introduce students to the breadth of the field of computer science through an exploration of engaging and accessible topics: human-computer interaction, problem solving, web design, introduction to programming, computing/data analysis, and robotics. Rather than focusing the entire course on learning particular software tools or programming languages, the course is designed to focus on the conceptual ideas of computing and help students understand why certain tools or languages might be utilized to solve particular problems. Students will also be introduced to topics such as interface design, limits of computers, and societal and ethical issues.
AP Computer Science Principles 1 credit	820531 820532	Prerequisites: Completion of Exploring Computer Science strongly recommended
		Description: AP Computer Science Principles is designed to be equivalent to a first-semester introductory college computing course. In this course students will develop computational thinking skills vital for success across all disciplines. Students are encouraged to apply creative processes when developing computational artifacts and to think creatively while using computer soft-ware and other technology to explore questions that interest them. They will also develop effective communication and collaboration skills, working individually and collaboratively to solve problems, and discussing and writing about the importance of these problems and the impacts to their community, society, and the world.

		Students are strongly encouraged to take the
		Advanced Placement Examination with the
		potential to earn college credit.
AP Computer Science A	820631	
		Prerequisites: Completion of AP Computer
1 credit	820632	Science Principles strongly recommended
		Descriptions The AD Commutes Science A
		Description: The AP Computer Science A
		course is an introductory course in computer
		science. Because the design and implementa-
		tion of computer programs to solve problems
		involve skills that are fundamental to the study
		of computer science, a large part of the course
		is built around the development of computer
		programs that correctly solve a given problem.
		These programs should be understandable; adaptable; and, when appropriate, reusable. At
		the same time, the design and implementation
		of computer programs is used as a context for
		introducing other important aspects of compu-
		ter science, including the development and
		analysis of algorithms, the development and
		use of fundamental data structures, the study of
		standard algorithms and typical applications,
		and the use of logic and formal methods.
		Students are strongly encouraged to take the Advanced Placement Examination with the
Information Tashnalagy	828111	potential to earn college credit.  Prerequisites: Corequisite—Student must be
Information Technology— YAP Level 2	828112	1 1
2 credits	020112	enrolled in a course within a related pathway.
2 cledits		Description: The Information Technology
		Description: The Information Technology
		Youth Apprenticeship Program is a one- or
		two-year apprenticeship. Students earn credit
		and get paid for working for a local business. Students will receive a skills certificate from
		the Wisconsin Department of Workforce
		Development upon successful completion of
		the program.
Information Technology—	828113	Prerequisites: Corequisite—Student must be
YAP Level 2	828114	enrolled in a source within a related pathway.
2 credits	020117	emoned in a source within a related pathway.
2 0100110		Description: The Information Technology
		Youth Apprenticeship Program is a one- or
		two-year apprenticeship. Students earn credit
		and get paid for working for a local business.
		Students will receive a skills certificate from
		Students will receive a skills certificate Holli

		the Wisconsin Department of Workforce
		Development upon successful completion of
		the program.
Marketing 1 credit	830111 830112	Prerequisites: None
		Description: Students find out what it takes to market a product or service in today's fast-paced business environment. Students will learn the fundamentals of marketing using real-world business examples. In this course topics include buyer behavior, marketing research principles, distribution, financing, pricing, and product management. This course may be taken for consumer education graduation credit.
Marketing Honors 1 credit	830121 830122	Prerequisites: None
		Description: This course will instruct students in the foundations of marketing, the four Ps of marketing (1. product, 2. price, 3. place, and 4. promotion), human relations and communications (people skills), and economic principles as they apply to marketing. Small group-oriented instruction and organization will allow the student to achieve a true "handson" experience. This course may be taken for consumer education graduation credit. Students have two options to earn honors credit: 1. exit interview or 2. compete with DECA.
Advanced Marketing 1 credit	830311 830312	Prerequisites: Marketing (830111 and 830112), application, and teacher permission required
1		Description: Advanced Marketing is for the student who is seriously considering a career in the field of marketing. Students who take the course will study the functions of market-ing, including distribution, financing, marketing information management, selling, promotion, pricing, and product/service planning. Students will also study the character traits necessary to become successful both personally and professionally as they apply to areas of management. Classroom instruction will include both large group and small group

		1
		instruction with the emphasis on teamwork
		through small group projects. Students will
		learn time management skills through the
		completion of several long-term projects.
		Students combine this course with Marketing
		Internship and participate in the student
		organization.
Advanced Marketing	830321	Prerequisites: Marketing (830111 and
Honors	830322	830112) and application
1 credit		11
		Description: Advanced Marketing is for the
		student who is seriously considering a career in
		the field of marketing. Students who take the
		course will study the functions of market- ing,
		including distribution, financing, marketing
		information management, selling, promotion,
		pricing, and product/service plan- ning.
		Students will also study the character traits
		necessary to become successful both
		personally and professionally as they apply to
		areas of management. Classroom instruction
		will include both large group and small group
		instruction with the emphasis on teamwork
		through small group projects. Students will
		learn time management skills through the
		completion of several long-term projects.
		Students combine this course with Marketing
		Internship and participate in the student
		organization. An additional project and a
		portfolio are required to earn honors credit.
Marketing—YAP Level 1	830351	Prerequisites: Corequisite—Student must be
2 credits	830352	enrolled in a course within a related pathway.
		Description: The Marketing Youth
		Apprenticeship Program is a one- or two-year
		apprenticeship. Students earn credit and get
		paid for working for a local business. Stu-
		dents will receive a skills certificate from the
		Wisconsin Department of Workforce
		Development upon successful completion of
Mankating VADI12	020252	the program.
Marketing—YAP Level 2	830353	Prerequisites: Corequisite—Student must be
2 credits	830354	enrolled in a course within a related pathway.
		apprenticeship. Students earn credit and get
		paid for working for a local business. Students

Retail Merchandising/ Management 1 credit	830411 830412	will receive a skills certificate from the Wisconsin Department of Workforce Development upon successful completion of the program.  Prerequisites: Marketing (830111 and 830112) and application  Description: This unique class has been
		developed for students with an interest in gaining an understanding of the multibillion dollar industry, retail and management. The students will spend class time learning about general retailing principles, management, merchandising, advertising, and promotional principles, customer service, and store operations. Class discussions and case studies will be presented on a variety of topics.
Retail Merchandising/ Management Honors 1 credit	830421 830422	Prerequisites: Marketing (830111 and 830112) and application
		Description: This unique class has been developed for students with an interest in gaining an understanding of the multibillion dollar industry, retail and management. The students will spend class time learning about general retailing principles, management, merchandising, advertising, and promotional principles, customer service, and store operations. Class discussions and case studies will be presented on a variety of topics. Students have three options to earn honors credit:
		<ol> <li>Exit interview,</li> <li>SBE Paper, or</li> <li>Compete with DECA</li> </ol>
Retail Merchandising/ Management Internship 1 credit	838411 838412	Prerequisites: Marketing (830111 and 830112) and concurrent enrollment in Retail Merchandising/Management (830411 and 830412)
		Description: Retail Merchandising/ Management Internship works simultaneously with the classroom for the student's second course credit. While in internship students will rotate through a variety of positions from cashier to inventory control, from vendor

		selection to product placement, and from advertising to visual merchandising. A portion
		of the learning opportunities occurs outside of
		the classroom and traditional school day.
ComAc Studios	861111	Prerequisites: Junior or senior status,
1 credit	861112	minimum GPA of 2.0, instructor consent
		Description: In an internship course where students can apply skills learned related to management of a design and production through a student-led business that will manufacture customized products and POS designs for clients and the public, students will work within design, marketing, manufacturing, and/or administrative departments. Focus will be in practicing a business plan that fosters growth and building a professional portfolio with work created for actual clients.

#### FAMILY AND CONSUMER SCIENCE





# **Culinary**





1 INTRODUCTORY LEVEL COURSES

Culinary Basics 840310

2 SPECIALIZED COURSES

Culinary Skills 840410 Global Cuisine 840450

Life Skills and Relationships 840750

3 CAPSTONE COURSES

Career Foods 840510 Youth Apprenticeship 848311 & 848312



# **Early Childhood and Education**





Child Development 1

841210

Life Skills and Relationships

840750

### 2 SPECIALIZED COURSES



Child Development 2

841510



Early Childhood Education

841310

### 3 CAPSTONE COURSES

Foundations of Education Honors 842120 Education Psychology and Assessment Honors 842320



### **Health Science**





= Prerequisite Course Required



### **INTRODUCTORY LEVEL COURSES**



Exploring Health Occupations 850110

2

#### **SPECIALIZED COURSES**



Introduction to Medical Terminology 850210



3

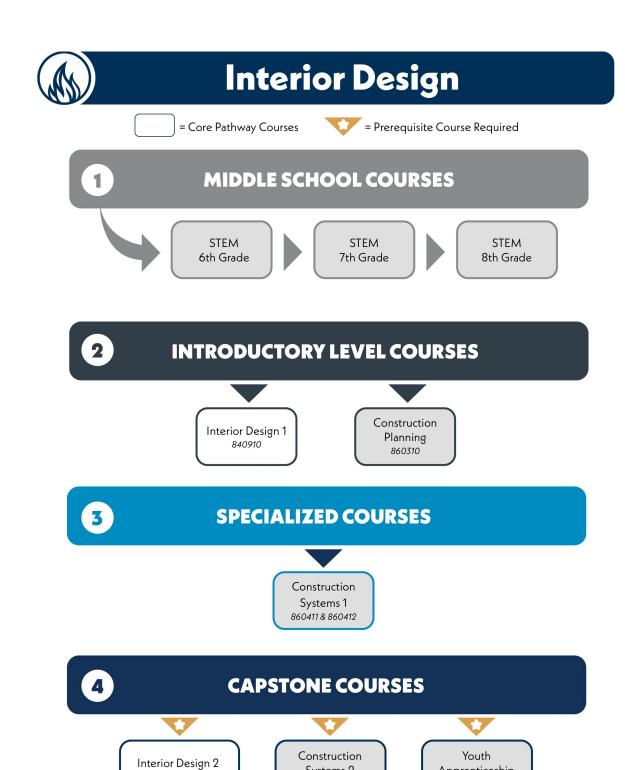
### **CAPSTONE COURSES**



GTC - Nursing Assistant



Youth Apprenticeship 858111 & 858112



841010

Systems 2

860511 & 860512

Apprenticeship

868151 & 860912

	CC	DURSES
Early	y Childhood	Education and Services
Child Development 1	841210	Prerequisites: None
½ credit		
		Description: This course is designed to help the
		student understand the developing child. Students will explore the effect of heredity and
		environment on the developing child. The physi-
		cal, social, emotional, and intellectual well-being
		of children and their various growth and develop-
		ment patterns will also be studied. Students
		interested in a career involving children will find
		this course useful.
Child Development 2  1/2 credit	841510	Prerequisites: Developing Child 1 (841210)
		Description: This course will examine the topics
		of health, safety, and nutrition within the context
		of the early childhood educational setting. Course
		competencies include strategies that support diversity; planning a healthy early childhood
		environment; planning nutritionally sound meals;
		examining childhood abuse and neglect issues
		and mandates describing Sudden Infant Death
		Syndrome; describing Shaken Baby Syndrome;
		and incorporating health, safety, and
	0.44.04.0	nutrition concepts into the children's curriculum.
Early Childhood Education	841310	Prerequisites: Developing Child 1 (841210) and
½ credit		Developing Child 2 (841510)
		Description: This course will prepare students to
		work as teacher caregivers in early childhood
		settings. It combines hands-on work with related
		academic work. Students will learn how to create a safe and healthy play environment, guide
		behavior, plan and implement learning activities,
		and work cooperatively with staff and parents.
Foundations of Education 1/2 credit	842120	Prerequisites: None
		Description: This course begins as an exploration
		of the teaching profession and the multiple roles
		of the teacher, where students will engage with
		peers, faculty, teachers, and stu- dents through
		authentic classroom experiences. Students will
		explore learning in and outside of formal
		schooling environments and examine how
	<u> </u>	communities—including local, regional, and

		national—can impact learning. Finally, students will discuss current topics in child and adolescent development with an emphasis on equity, culturally relevant pedagogy, and school environments and will clarify and analyze issues from diverse developmental contexts in conjunction with motivation, identify development, and educational achievement.
		Students enrolled in this course are eligible to enroll for dual credit via the Parkside Access to College Credit Program.
Education Psychology and Assessment ½ credit	842320	Prerequisites: Foundations of Education (842120)
		Description: How do people learn? Students in this course will learn about research on learning, major theories of learning and instruction, and instructional design tactics based on these theories. Different developmental ages and abilities are addressed. Students read research articles and learn how to analyze research studies. They will also learn about measuring learning and how these learning assessments are developed, interpreted, and scored.
		Students enrolled in this course are eligible to enroll for dual credit from Carthage College.

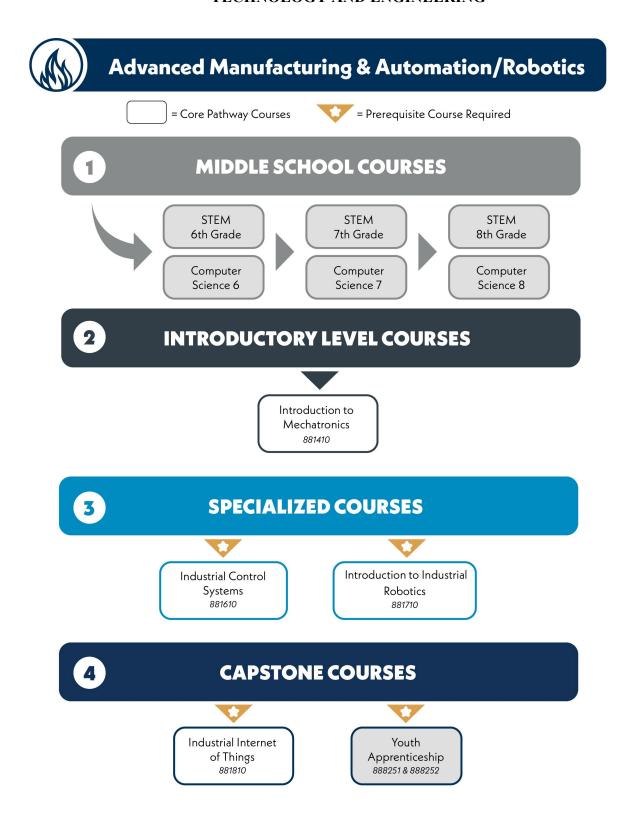
	Family and	Community Services
	Food Prod	uction and Services
Culinary Basics 1/2 credit	840310	Prerequisites: None
72 • 7 • 7 • 7		Description: Culinary Basics is a study of nutrition and food needs for all age groups. Students will study food, current health problems related to diet, and the social and cultural influence on food and resources. Preparation of food to meet dietary recommendations will be a part of this class.
Culinary Skills  1/2 credit	840410	Prerequisites: Culinary Basics (840310)
		Description: This course focuses on the principles of food preparation. Students will receive hands-on experience in the preparation of many foods, including entrees, sauces and soups, breads, fruits, vegetables, and desserts. They will also study food safety and sanitation, equipment, and recipe formats. This course will benefit students who are in the career field of food service.
Global Cuisine ½ credit	840450	Prerequisites: Culinary Basics (840310)
		Description: Discover the unique flavors and tastes from around the world. In Global Cuisine you will explore the traditional foods and flavors of Asia, Mediterranean countries, Italy, Mexico, and the U.S. You will be able to identify the differing cooking methods, equipment, ingredients, and influences from cultures across the globe. Expand your knowledge base, and take home some great new recipes to add to your collection.
Career Foods  1/2 credit	840510	Prerequisites: Culinary Skills (840410)
		Description: The food service industry is the third largest employer nationwide. This course is directed at the numerous opportunities that exist in the food service industry. This course builds on the information and skills learned in Culinary Basics and Culinary Skills. It focuses on the kinds of opportunities available in food service and helps students develop job skills necessary

Life Skills and	840750	for the growing industry. Preparation of food for a variety of services and restaurant simulations will be part of the course.  Prerequisites: None
Relationships ½ credit		Description: Life Skills and Relationships is a course designed to increase student knowledge and skills necessary for everyday living. The course emphasizes goal setting, decision making and problem solving, communication, nutrition, career exploration, citizenship, and consumerism. Skills learned in this class will be adaptable to students' lives after high school. This course is excellent for any student pursuing a career in the Human Service Career Pathway.
		and Apparel
Clothing, Textile, and Apparel	840110	Prerequisites: None
½ credit		Description: Students will have an opportunity to improve their basic sewing skills and knowl- edge of clothing construction, including use of a pattern. Sewing machines are to complete individual clothing projects.
Advanced Clothing, Textile, and Apparel	840210	Prerequisites: Clothing, Textile, and Apparel (840110)
		Description: The focus of this course is the world of fashion with an exploration of career options in the clothing industry. Students will further develop their sewing skills by constructing advanced projects, including use of patterns and supplies purchased from a store. Students must provide supplies necessary to complete individual sewing projects.
		ors, and Furnishings
Interior Design 1 ½ credit	840910	Prerequisites: None  Description: This course will provide the beginning college student with the fundamentals of interior design. Students will explore the elements and principles of art and design as they are applied to interior environments. The learner will also gain knowledge of basic concepts in the design process, human ecology, space planning, selecting finishes and furnishings, and design communication techniques.

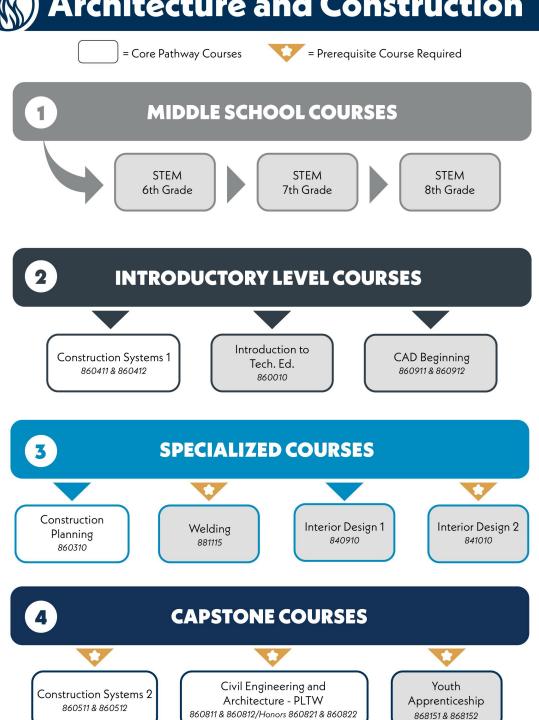
Interior Design 2	841010	Prerequisites: Interior Design 1 (840910)
½ credit		
		Description: This course is a continuation of
		Interior Design 1. Students will further their study of interior design with advanced projects. They
		will also explore the many career opport tunities
		in the housing industry. The course provides a
		study of architecture and construction basics.
		Other topics include furniture design; window,
		wall, and floor treatments; and room design.
		Those students interested in a career in interior design will find this course useful.
Hospitality, Logding &	848351	Prerequisites: Corequisite—Student must be
Tourism—YAP Level 1	848352	enrolled in a course within a related pathway.
2 credits		
		Description: The Hospitality, Lodging &
		Tourism Youth Apprenticeship Program is a one- or two-year apprenticeship. Students earn credit
		and get paid for working for a local business.
		Students will receive a skills certificate from the
		Wisconsin Department of Workforce
		Development upon successful completion of the
Hospitality Ladging &	848353	program.  Prerequisites: Corequisite—Student must be
Hospitality, Lodging & Tourism—YAP Level 2	848354	enrolled in a course within a related pathway.
2 credits		and the second of the second part of the second par
		Description: The Hospitality, Lodging &
		Tourism Youth Apprenticeship Program is a one-
		or two-year apprenticeship. Students earn credit and get paid for working for a local business.
		Students will receive a certificate from the state
		upon successful completion of the program.
		th Services
Exploring Health	850110	Prerequisites: None
Occupations ½ credit		Description: Students will learn about career
/2 Clouit		opportunities in the healthcare field. Education
		requirements for job entry, opportunities for ad-
		vancement, and career maintenance will also be
		explored. Exposure to the healthcare field will be
		provided through audio-visual materials, guest speakers, and research.
Introduction to Medical	850210	Prerequisites: None
Terminology	020210	2. S. Symboles. 1. Sile
½ credit		Description: This course is available for grades
		10, 11, and 12. This rigorous course will provide

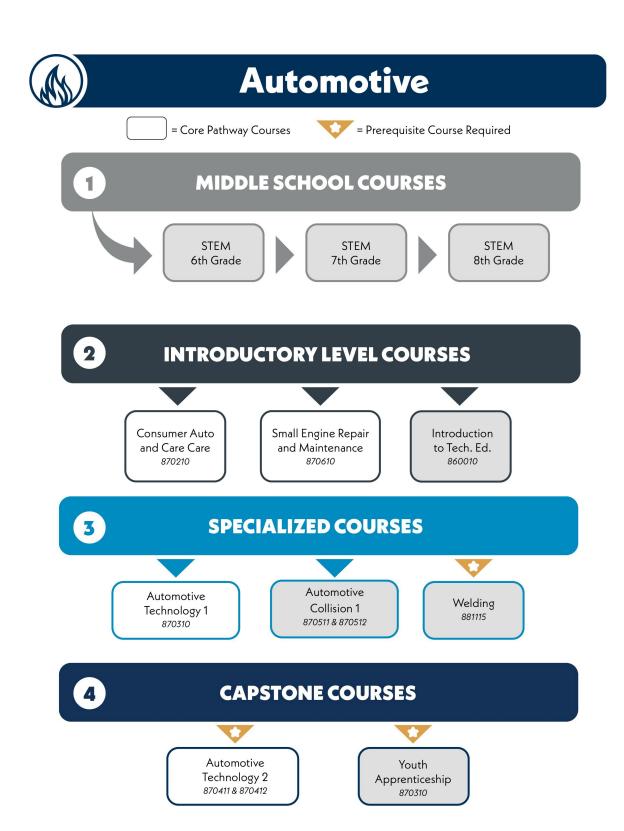
		students with a working knowledge of the language of medicine as it pertains to the body as a whole. Students acquire word-building skills by learning prefixes, suffixes, roots, and abbreviations. They will interpret, construct, pronounce, and analyze medical terms related to all of the body system. Students will identify terms used in diagnostic, therapeutic, symptomatic, and surgical terminology. Those students interested in taking Anatomy and Physiology or who are considering a career in the health field will find this course useful. Successful completion of this course fulfills the prerequisite for CNA.
Health Sciences—YAP	858151	Prerequisites: Corequisite—Student must be
Level 1	858152	enrolled in a course within a related pathway.
2 credits		1 3
		Description: The Health Sciences Youth
		Apprenticeship Program is a one- or two-year
		apprenticeship. Students earn credit and get paid
		for working for a local healthcare business.
		Students will receive a certificate from the state
		upon successful completion of the program.
<b>Health Sciences—YAP</b>	858153	Prerequisites: Corequisite—Student must be
Level 2	858154	enrolled in a course within a related pathway.
2 credits		
		Description: The Health Sciences Youth
		Apprenticeship Program is a one- or two-year
		apprenticeship. Students earn credit and get paid
		for working for a local healthcare business.
		Students will receive a certificate from the state
		upon successful completion of the program.

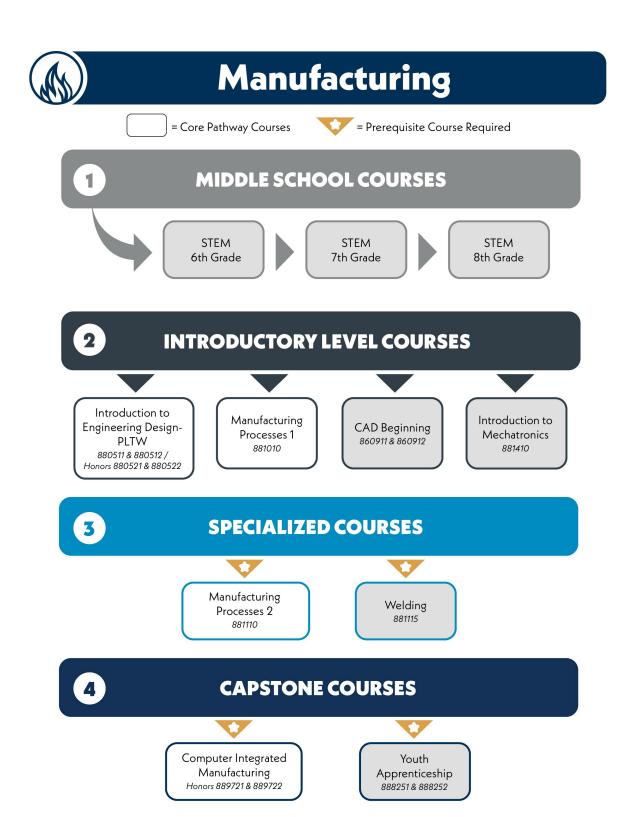
#### TECHNOLOGY AND ENGINEERING













# STEM / Engineering / PLTW



	CC	DURSES
<b>Introduction to Tech Ed</b>	860010	Prerequisites: None
½ credit		
		Description: This course will provide students of
		all grade levels the opportunity to explore, develop knowledge, and build upon the skills of a
		variety of the technical education courses. Stu-
		dents will work individually and in groups while
		learning aspects of home maintenance, wood-
		working, manufacturing, automotive mainte-
		nance, small engines, collision repair, technical
		drawing, coding, and engineering design process.  Students will use these base skills to define the
		course pathways which interest them.
Computer-Aided Design 2	860210	Prerequisites: Computer-Aided Design:
½ credit		Beginning (860911 and 860912) and concurrent
		enrollment in Geometry (321011 and 321012)
		Description: This course builds upon the skills
		gained in Computer-Aided Design—Beginning.
		Skills needed for architectural and mechanical
		design will be introduced, and students will gain
		competency by creating graphics using two- dimensional AutoCAD. Students will work
		through advanced orthographic projections; sec-
		tions, threads, and fasteners; tolerancing and
		dimensioning; and an introduction to three-
		dimensional CAD drawings.
Construction Planning	860310	Prerequisites: None
½ credit		Description: Students will develop knowledge,
		skills, and attitudes about designing a residential
		structure. Functions of a contractor and the ser-
		vices of an architect will be reviewed. Students
		will draft their designs via an industrial design
		software. This course will serve as an excellent introduction to architecture.
Construction Systems 1	860411	Prerequisites: None
1 credit	860412	
		Description: This course is designed to introduce
		students to the fundamental skills and vocabulary
		used in the building trades. This introductory course provides the students with a hands-on
		opportunity to explore the construction field. This
		course uses building skills labs that introduce
		students to many phases of residential

Construction Systems 2	860511	construction. Units on safety, construction math, and measurement expose students to some of the fundamental skills used in construction and woodworking. This course allows organized, self-motivated, responsible students to capitalize on the important skills of successful trades people while preparing for more advanced construction courses.  Prerequisites: Construction Systems 1 (860411)
1 credit	860512	and 860412)  Description: This course is designed to further develop the students' fundamentals of construction systems. It gives the students a hands-on opportunity to explore the construction field. The students will use their skills to design and build a custom project. As students are creating the project, they will delve deeper into the theory behind components. The final portion of the course will further the students' exposure by completing a prescribed project.
Civil Engineering and Architecture 1 credit	860811 860812	Prerequisites: Introduction to Engineering Design (880511 and 880512) or Construction Planning (860310)  Description: This Project Lead the Way course provides an overview of the fields of civil engineering and architecture while emphasizing the inter-relationship and dependence of both fields on each other. Students use state-of-the-art software to solve real-world problems and communicate solutions to hands-on projects and activities. This course covers topics such as the roles of civil engineers and architects, project planning, site planning, building design, and project documentation and presentation.
Civil Engineering and Architecture Honors 1 credit	860821 860822	Prerequisites: Introduction to Engineering Design (880511 and 880512) or Construction Planning (860310)  Description: This course provides an overview of the fields of civil engineering and architecture while emphasizing the inter-relationship and dependence of both fields on each other. Students use state-of-the-art soft-ware to solve real-world problems and communicate solutions to hands-on

	1	,
		projects and activities. This course covers topics
		such as the roles of civil engineers and architects,
		project planning, site planning, building design,
		and project documentation and presentation. If
		the student maintains a grade of a B or higher and
		achieves a 70 percent competency on the Project
		Lead the Way National Assessment, honors
	0.60011	credit will be applied to his/her transcript.
Computer-Aided Design:	860911	Prerequisites: None
Beginning	860912	
1 credit		Description: Students will master the basics of
		the application of computer-aided design (CAD)
		for communications and creation of design solu-
		tions. This course is a prerequisite to CAD 2 and
	061011	CAD Solids.
<b>Engineering Essentials</b>	861011	Prerequisites: None
1 credit	861012	D
		Description: This course will help students
		understand the field of engineering/engineering
		technology through various presentations and
		projects. Students will explore various types of
		engineering systems, careers, materials, and design processes that will help them learn how
		engineers and technicians use math, science, and
		technology in an engineering problem-solving
		process that helps them to become a responsible,
		involved citizen. Using projects as a learning
		vehicle, students are expected to work coopera-
		tively on complex and open-ended tasks as well
		as follow directions in step-by-step learning.
Architecture &	868151	Prerequisites: Corequisite—Student must be
Construction—YAP Level 1	858152	enrolled in a course within a related pathway.
2 credits	000102	
		Description: Architecture & Construction—
		YAP—is a one-or two-year apprenticeship.
		Students earn credit and get paid for working for
		a local business. Students will receive a skills
		certificate from the Wisconsin Department of
		Workforce Development upon successful
		completion of the program.
Architecture &	868153	Prerequisites: Corequisite—Student must be
Construction—YAP Level 2	868154	enrolled in a course within a related pathway.
2 credits		: : : :
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Consumer Auto and Car	870210	Description: Architecture & Construction—YAP—is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local business. Students will receive a skills certificate from the Wisconsin Department of Workforce Development upon successful completion of the program.  Prerequisites: None
Care ½ credit		Description: This course gives students the necessary skills to care for and understand basic automotive systems. Students gain the ability to perform very basic maintenance on automotive lubrication, cooling, and electrical systems. Students also become proficient in the use and identification of hand tools in the auto shop environment as well as the proper technique for safely jacking a car and changing tires. This course introduces the student to situations that commonly occur in the day-to-day operation of motor vehicles as well as in the safe handling and disposal of chemicals found in today's automobile.
Automotive Technology 1 ½ credit	870310	Prerequisites: None  Description: This course gives students the necessary skills to successfully compete for entry-level positions as a lube technician. Students that successfully complete this course will be able to read and understand Vehicle Identification Numbers (VIN) and understand and perform basic maintenance on automotive lubrication systems, cooling systems, starting systems, and fuel systems. Students also become competent in basic measurement and safety procedures and the use of and repair of fasteners
Automotive Technology 2 1 credit	870411 870412	Prerequisites: Automotive Technology 1 (870310)  Description: Automotive Technology 2 will build on and polish skills learned in Automotive Technology 1. This course gives students the necessary skills to successfully compete for entry-level positions as a lube tech. Students that successfully complete this course will be able to read, understand, and perform basic maintenance

		1.1
		on automotive lubrication systems, cooling systems, starting systems, and fuel systems.
		Students also become competent in basic
		measurement and safety procedures and the use
		of and repair of fasteners.
Automotive Collision 1	870511	Prerequisites: None
1 credit	870512	
		Description: This course gives students the
		fundamental skills in auto collision repair, includ-
		ing safety and environmental practices, surface
		refinishing, painting preparation, and detailing.
		Students also learn about trim, alignment, glass
		installation, automotive finishes, corrosion
		protection, and body filler.
<b>Small Engine Repair and</b>	870610	Prerequisites: None
<b>Maintenance</b>		
½ credit		Description: Students interested in small gasoline
		engines will, upon successful completion of this
		course, understand the operation and general
		maintenance of small gasoline engines as well as
		gain the knowledge to disassemble and
Tuongnantation	070251	reassemble a small gasoline engine.
Transportation.	878351 878352	Prerequisites: Corequisite—Student must be
Distribution & Logistics— YAP Level 1	0/0332	enrolled in a course within a related pathway.
2 credits		Description: The Transportation, Distribution &
2 credits		Logistics Youth Apprenticeship program is a
		one- or two-year apprenticeship. Students can
		earn credit and get paid for working for a local
		business. Students will receive a skills certifi-
		cate from the Wisconsin Department of
		Workforce Development upon successful
		completion of the program.
Transportation,	878353	Prerequisites: Corequisite—Student must be
Distribution & Logistics—	878354	enrolled in a course within a related pathway.
YAP Level 2		
2 credits		Description: The Transportation, Distribution &
		Logistics Youth Apprenticeship Program is a
		one- or two-year apprenticeship. Students can
		earn credit and get paid for working for a local
		business. Students will receive a skills certifi-
		cate from the Wisconsin Department of Workforce Development upon successful
		1 1
		completion of the program.

Principles of Engineering 1 credit	880411 880412	Prerequisites: Students should be currently enrolled in college preparatory math and science classes.
		Description: This Project Lead the Way course, taken concurrently with Geometry, will help students understand the field of engineering/engineering technology through various presentations and projects. Students will explore various types of engineering systems, careers, materials, and design processes that will help them learn how engineers and technicians use math, science, and technology in an engineering problem-solving process that helps them to become a responsible, involved citizen. Using projects as a learning vehicle, students are expected to work cooperatively on complex and open-ended tasks as well as follow directions in step-by-step learning.
Principles of Engineering Honors 1 credit	880421 880422	Prerequisites: Students should be currently enrolled in college preparatory math and science classes.
		Description: This Project Lead the Way course, taken concurrently with Geometry, will help students understand the field of engineering/engineering technology through various presentations and projects. Students will explore various types of engineering systems, careers, materials, and design processes that will help them learn how engineers and technicians use math, science, and technology in an engineering problem-solving process that helps them to become a responsible, involved citizen. Using projects as a learning vehicle, students are expected to work cooperatively on complex and open-ended tasks as well as to follow directions in step-by-step learning. If the student maintains a grade of a B or higher and achieves 70 percent competency of the Project Lead the Way National Assessment, honors credit will be applied to his/her transcript.

<b>Introduction to Engineering</b>	880511	Prerequisites: Algebra (312011 and 312012)
Design 1 credit	880512	Description: This Project Lead the Way course teaches problem-solving skills using a design development process. Using an industry-based solid modeling (3-D) computer program, students experience the design process involving problem identification, conceptualization, refinement of preliminary ideas, design analysis, development,
		and implementation, which are implemented through class projects.
Introduction to Engineering	880521	Prerequisites: Algebra (312011 and 312012)
Design Honors 1 credit  Digital Electronics	880522	Description: This Project Lead the Way course teaches problem-solving skills using a design development process. Using an industry-based solid modeling (3-D) computer program, students experience the design process involving problem identification, conceptualization, refinement of preliminary ideas, design analysis, development, and implementation, which are implemented through class projects. If the student maintains a grade of a B or higher and achieves a 70 percent competency on the Project Lead the Way National Assessment, honors credit will be applied to his/her transcript.
Digital Electronics 1 credit	880611 880612	Prerequisites: Algebra 1 (312011 and 312012) and concurrent enrollment in Geometry (321011 and 321012 or 322021 and 322022)
		Description: This Project Lead the Way course, taken concurrently with Geometry, provides the student with experiences and activities to understand, construct, and operate combinational logic circuits. The student is aided in understanding these concepts by using a computer logic simulator. Logic gates and the truth tables are explored along with applications of these gates in multiplexer, demultiplexer, decoder, and encoder circuits. TTL and CMOS families are explored. Digital troubleshooting practices and procedures are emphasized throughout the course.
Digital Electronics Honors 1 credit	880621 880622	Prerequisites: Algebra (312011 or 311012) and concurrent enrollment in Geometry (321011 and 322012 or 322021 and 322022)

Manufacturing Process 1 ½ credit	881010	Description: This Project Lead the Way course provides the student with experiences and activities to understand, construct, and operate combination logic circuits using a computer logic simulator. Logic gates and the truth tables are explored along with applications of these gates in multiplexer, demultiplexer, decoder, and encoder circuits. TTL and CMOS families are explored. Digital troubleshooting practices and procedures are emphasized throughout the course. If the student maintains a grade of a B or higher and achieves a 70 percent competency on the Project Lead the Way National Assessment, honors credit will be applied to his/her transcript.  Prerequisites: None  Description: This course allows students to learn how to use many tools and machines in the manufacturing of several products. Different manufacturing techniques will be covered, such as jigs, fixtures, and mass production. Students are exposed to several different types of manufacturing materials, including woods, plastics, and metals. Safety, precision measuring, and blueprint reading are important areas of emphasis
Manufacturing Process 2	881110	in this course.  Prerequisites: Manufacturing Process 1 (881010)
½ credit		Description: This course is designed to allow students to delve deeper into the world of manufacturing. Students learn advanced techniques of manufacturing, such as milling, turning, and CNC applications. This course uses a projectoriented, hands-on approach to drive student learning. Students use a variety of materials and learn the properties unique to those materials. There is an emphasis on quality and pride on each
Welding 1	881115	project.  Prerequisites: Manufacturing 1, teacher
½ credit		recommendation  Description: This course will teach students gas metal arc welding, shielded metal arc welding, oxy-fuel welding and cutting, and gas tungsten

		arc welding. Safety, equipment set up, job assignments, and tests will be discussed throughout the semester.
Introduction to Mechatronics 1/2 credit	881410	Prerequisites: None  Description: In this course students are introduced to microprocessor-controlled electromechanical systems. The student examines how individual components work and how they are integrated into simple systems. Upon completion of the course, students will understand what technicians do in the workplace and how industry utilizes mechatronics in advanced manufacturing.
Industrial Control Systems ½ credit	881610	Prerequisites: Intro to Mechatronics (881410)  Description: In this course students are introduced to basic concepts of industrial computer-controlled systems. The student explores various types of programming using robots and programmable logic controllers and participates in lab experiments designed to introduce programming principles; electronic inputs and outputs (analog and digital); and communication between system components, including Ethernet protocols. Upon completion of the course, students will be able to explain how the control processes are utilized to automate manufacturing facilities.
Introduction to Industrial Robotics 1/2 credit	881710	Prerequisites: Introduction to Mechatronics (881410) and Introduction to Industrial Control Systems (881610)  Description: In this course students are introduced to programming techniques for industrial robots. The student examines teach pendant programming, including input/output, routines, decision making, six frames of positional operation, and robot communication. Upon completion of the course, students will be able to operate and program industrial robots commonly used in Industry 4.0.
Industrial Internet of Things 1/2 credit	881810	Prerequisites: Introduction of Mechatronics (881410) and Introduction to Industrial Control Systems (881610)

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		Description: In this course students are
		introduced to theoretical and practical topics of
		the Industrial Internet of Things (IIoT). The stu-
		dent investigates the range of sensor and actuator
		devices available, ways in which they
		communicate and compute, methods of getting
		information to and from IIoT-enabled devices,
		· ·
		and ways of visualizing and processing data
		acquired from the IIoT. Upon completion, stu-
		dents will utilize hardware and software to
		construct a sensor network within an existing
		system and utilize standards tools to visualize the
		data captured.
Manufacturing—YAP	888251	Prerequisites: Corequisite—Student must be
Level 1	888252	enrolled in a course within a related pathway.
2 credits		care and an electrical with an electrical partial way.
		Description: The Manufacturing Youth
		Apprenticeship Program is a one- or two-year
		apprenticeship. Students earn credit and get paid
		for working for a local business. Students will
		receive a skills certificate from the Wisconsin
		Department of Workforce Development upon
		successful completion of the program.
Manufacturing—YAP	888253	Prerequisites: Corequisite—Student must be
Level 2	888254	enrolled in a course within a related pathway.
2 credits		
		Description: The Manufacturing Youth
		Apprenticeship Program is a one- or two-year
		apprenticeship. Students earn credit and get paid
		for working for a local business. Students will
		receive a skills certificate from the Wisconsin
		Department of Workforce Development upon
		<u> </u>
Sajanga Taghnalagy	888451	successful completion of the program.
Science, Technology,		Prerequisites: Corequisite—Student must be
Engineering & Math	888452	enrolled in a course within a related pathway.
(STEM)—YAP Level 1		
2 credits		Description: The Science, Technology,
		Engineering & Math Youth Apprenticeship
		Program is a one- or two-year apprenticeship.
		Students earn credit and get paid for working for
		a local business. Students will receive a skills
		certificate from the Wisconsin Department of
		Workforce Development upon successful
		completion of the program.
		completion of the program.

Science, Technology, Engineering & Math (STEM)—YAP Level 2 2 credits  Computer Integrated Manufacturing 1 credit	888453 888454 889721 889722	Prerequisites: Corequisite—Student must be enrolled in a course within a related pathway.  Description: The Science, Technology, Engineering & Math Youth Apprenticeship Program is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local business. Students will receive a skills certificate from the Wisconsin Department of Workforce Development upon successful completion of the program.  Prerequisites: Successful completion of Introduction to Engineering Design (880511 and 880512 or 880521 and 880522)
1 Credit		Description: Computer Integrated Manufacturing is a high school-level survey course of engineering. The course exposes student to some of the major concepts that they will encounter in a postsecondary engineering course of study. Students have an opportunity to investigate engineering and high-tech careers. Computer Integrated Manufacturing gives students the opportunity to develop skills and understanding of course concepts through activity-, project-, and problem-based (APPB) learning. Used in combination with a teaming approach, APPB learning challenges students to continually hone their interpersonal skills, creative abilities, and problem-solving skills based upon engineering concepts.
Engineering Design and Development Honors 1 credit	889921 889922	Prerequisites: None  Description: This Project Lead the Way course has student teams, guided by mentors, work together to research, design, and construct solutions to engineering problems.
Communications ½ credit	890110	Prerequisites: None  Description: This is the first in the graphic technologies course series and should be taken before taking other graphic technologies classes. Study includes technology vocabulary and communications theory supplemented with readings and videos based on current communication technologies, including the historical and social

		implications of communications technologies. Activities include a research paper, multimedia presentations to the class, podcasts, video shorts, digital storytelling, and stop-action animations. Some basic technical sketching and computer drawing are also included.
Graphic Communications	890210	Prerequisites: Communications (890110)
½ credit		Description: This is the second in the series of graphic technologies courses. This course emphasizes image transfer technologies and the printed image. The study includes the technical vocabulary of graphic design and the print industry. This class emphasizes the role of the graphic designer and the soft skills needed in graphic communications management. A detailed investigation of the current state of the print industry is covered in this class as well as career opportunities in the industry. Activities include design, print, and finishing operations to projects including memo pads, business cards, flyers, comic books, and product packaging. Some
		drawing and basic design concepts are required.
Art, A/V Technology & Communications—YAP Level 1	890351 890352	Prerequisites: Corequisite—Student must be enrolled in a course within a related pathway.
2 credits		Description: The Art, A/V Technology & Communications Youth Apprenticeship Program is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local business. Students will receive a skills certificate from the Wisconsin Department of Workforce Development upon successful completion of the program.
Art, A/V Technology & Communications—YAP Level 2	890353 890354	Prerequisites: Corequisite—Student must be enrolled in a course within a related pathway.
2 credits		Description: The Art, A/V Technology & Communications Youth Apprenticeship Program is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local business. Students will receive a skills certificate from the Wisconsin Department of Workforce Development upon successful completion of the program.

#### **FINE ARTS**

#### **ART COURSES**



### **Art and Design**

#### Fundamentals of Art and Design/Honors

(Formerly Introduction to High School Art) Open to Grades 9-12 511111/511112 & Honors - 511121/511122









#### Advanced Fundamentals of Art and Design/Honors

511211/511212 & Honors - 5112221/5112222

#### 2-D Foundations/Honors

512111/512112 & Honors - 512121/512122

#### Photography and Media Arts/Honors

511211/511212 Honors - 5112221/5112222

#### 3-D Foundations/Honors

531111/531112 Honors - 531121/531122









#### Advanced 2-D Design/Honors

512211/512212 & Honors - 512221/512222

#### Advanced Photography and Media Ărts/Honors

541211/541212 & Honors - 541221/541222

#### Advanced 3-D Design/Honors

531211/531212 & Honors - 531221/531222



### ΑP Drawing

512431/512432

2-D Design

Studio/Honors

512311/512312 &

Honors - 512321/512322





AP 3-D Art

and Design

#### AP 2-D Art and Design 541431/541432



#### Photography and Media Arts Studio/ Honors

541311/541312 & Honors - 541321/541322

## 3-D Design

Studio/Honors 531311/531312 & Honors - 531321/531322



#### **AP Art History**

511031/511032

	CO	DURSES
AP Art History	511031	Prerequisites: Fundamentals of Art and Design
1 credit	511032	and two of the following:
		1. Photography and Media Arts
		2. Advanced Photography and
		Media Arts
		3. 2-D Foundations
		5. 2-D I oundations
		4. Advanced 2-D Design
		II Travancea 2 15 5 congri
		5. 3-D Foundations
		6. Advanced 3-D Design
		Description: This course is designed to allow
		students to explore the history of art across the
		globe from prehistoric to the present by analyz-
		ing works of art through observation, discussion,
		reading, and research. Students will develop a
		theory about the meaning of a work of art by ex-
		plaining and supporting their interpretation
		through visual connections to artistic traditions,
		styles, and practices.
Fundamentals of Art and	511111	Prerequisites: None
Design	511112	
1 credit		Description: This course offers an exploration of
		the elements and principles of design by relating
		historical and contemporary art to structurally
		designed hands-on projects through experiences
		in 2D and 3D media. Key ideas and concepts
		using a variety of techniques and processes will
		be addressed with attention given to composition
	711101	and aesthetics.
Fundamentals of Art and Design Honors	511121 511122	Prerequisites: None
1 credit		Description: The framework for this course will
		be similar to that of Fundamentals of Art and
		Design but with increased expectations in terms
		of development of technique, craftsmanship, and
		encouragement to take informed risks. The ex-
		ploration of materials, ideas, and processes will
		allow students to seek a personal form of

		expression and artistic voice as they work towards more sophisticated concepts and
		aesthetic judgment.
Advanced Fundamentals of Art and Design	511211 511212	Prerequisites: Fundamentals of Art and Design
1 credit		Description: This course offers an advanced exploration of the elements and principles of design through the use of 2D and 3D media. Course content will enable students to enhance their skills and knowledge in the areas of art history, art criticism, design concepts, and art production by using a variety of complex techniques and processes.
Advanced Fundamentals of Art and Design Honors 1 credit	511221 511222	Prerequisites: Fundamentals of Art and Design  Description: The framework for this course will
		be similar to that of Advanced Fundamentals of Art and Design but with increased expectations in terms of development of technique, craftsmanship, and encouragement to take informed risks. The exploration of materials, ideas, and processes will allow students to seek a personal form of expression and artistic voice as they work towards more sophisticated concepts and aesthetic judgment.
2-D Foundations 1 credit	512111 512112	Prerequisites: Fundamentals of Art and Design
		Description: This course will offer students an opportunity to use a variety of media through the study and exploration of contemporary and historical art and practices by building aesthetic judgment and developing personal vision. Abstract and representational topics will be explored through diverse processes within a variety of subject matter.
2-D Foundations Honors 1 credit	512121 512122	Prerequisites: Fundamentals of Art and Design
		Description: The framework for this course will be similar to that of 2-D Foundations but with increased expectations in terms of development of technique, craftsmanship, and intrinsic motivation as students work towards more sophisticated concepts and techniques.
Advanced 2-D Design 1 credit	512211 512212	Prerequisites: Fundamentals of Art and Design and 2-D Foundations

Advanced 2-D Design Honors 1 credit	512221 512222	Description: This course offers students the opportunity to expand upon the basic techniques developed in 2-D Foundations by enhancing their skills through the production of more sophisticated forms. All areas of study will incorporate the elements and principles of design as well as thehistorical origins and contemporary practices.  Prerequisites: Fundamentals of Art and Design and 2-D Foundations  Description: The framework for this course will be similar to that of Advanced 2-D Foundations but with increased expectations in terms of development of technique, craftsmanship, and intrinsic motivation as students work towards
		more sophisticated concepts and techniques.
2-D Design Studio 1 credit	512311 512312	Prerequisites: Fundamentals of Art and Design, 2-D Foundations, and Advanced 2-D design
		Description: This studio course is designed to facilitate the opportunity for exploration and/or development of a portfolio through an in-depth study of a field of interest. Students will work on assigned and teacher-approved independent projects by using inquiry, investigation, experimentation, and application.
2-D Design Studio Honors 1 credit	512321 512322	Prerequisites: Fundamentals of Art and Design, 2-D foundations, and Advanced 2-D Design
		Description: The framework for this course will be similar to that of Advanced 2-D Foundations but with increased expectations in terms of development of technique, craftsmanship, and intrinsic motivation as students work towards more sophisticated concepts and techniques.
AP Drawing 1 credit	512431 512432	Prerequisites: Fundamentals of Art and Design, 2-D Foundations, and Advanced 2-D Design
		Description: The goal of this course is to create a portfolio of college-level work and submit it for evaluation. The course contains two sections. The Sustained Investigation section requires the student to conduct an inquiry-guided investigation through practice, experimentation, and revision. The Selected Works section allows the student to demonstrate skillful synthesis of

		materials, processes, and ideas. For both sections of the portfolio, the student will be expected to
		share information in writing about their work.
Digital Art Exploration 1 credit	521311 521312	Prerequisites: Fundamentals of Art and Design
		Description: This course is available for grades 10 through 12. In this course students will explore different digital processes by applying the use of various software applications (Adobe Suite) to create original works of art. This hands-on studio course will utilize the elements and principles of design. Students will investigate new approaches and explore traditional methods that enable them to design and develop innovative visual communication projects. A portfolio, which reflects personal achievements using a variety of digital tools and resources, will be created. Students may have the opportunity to earn industry-recognized credentials through this course.
<b>Digital Art Exploration</b>	521321	Prerequisites: None
Honors	521322	1 · · · · · · · · · · · · · · · · · · ·
1 credit		Description: The framework for this course will be similar to that of Digital Art Explorations but with increased expectations in terms of development of technique, craftsmanship, and encouragement to take informed risks. The exploration of digital programs, materials, ideas, and processes will allow students to seek a personal form of expression and artistic voice as they work towards more sophisticated concepts and aesthetic judgment.
3-D Foundations 1 credit	531111 531112	Prerequisites: Fundamentals of Art and Design
		Description: This course challenges students to create in three dimensions by emphasizing the historical origins, modern practices, and aesthetics of sculpture using a variety of media techniques and processes. Students will apply the elements and principles of design within their exploration of 3-D forms while using traditional and contemporary materials.
3-D Foundations Honors	531121	Prerequisites: Fundamentals of Art and Design
1 credit	531122	

Advanced 3-D Design 1 credit	531211 531212	Description: The framework for this course will be similar to that of 3-D Foundations but with increased expectations in terms of development of technique, craftsmanship, and encouragement to take informed risks. The exploration of materials, ideas, and processes will allow students to seek a personal form of expression and artistic voice as they work towards more sophisticated concepts and aesthetic judgment.  Prerequisites: Fundamentals of Art and Design and 3-D foundations
		Description: This course offers students the opportunity to expand upon the basic techniques developed in 3-D Foundations by enhancing their skills through the production of more complex forms. All areas of study will incorporate the elements and principles of design as well as historical origins and contemporary practices.
Advanced 3-D Design Honors 1 credit	531221 531222	Prerequisites: Fundamentals of Art and Design and 3-D foundations  Description: The framework for this course will be similar to that of Advanced 3-D Design but
		with increased expectations in terms of development of technique, craftsmanship, and encouragement to take informed risks. The exploration of materials, ideas, and processes will allow students to seek a personal form of expression and artistic voice as they work towards more sophisticated concepts and aesthetic judgment.
3-D Design Studio 1 credit	531311 531312	Prerequisites: Fundamentals of Art and Design, 3-D Foundations, and Advanced 3-D design
		Description: This studio course is designed to facilitate the opportunity for exploration and/or development of a portfolio through an in-depth study of a field of interest. Students will work on assigned and teacher-approved independent projects by using inquiry, investigation, experimentation, and application.
3-D Design Studio Honors 1 credit	531321 531322	Prerequisites: Fundamentals of Art and Design, 3-D Foundations, and Advanced 3-D design

		Description: The framework for this course will be similar to that of 3-D Design Studio but with increased expectations in terms of development of technique, craftsmanship, and encouragement to take informed risks. The exploration of materials, ideas, and processes will allow students to seek a personal form of expression and artistic voice as they work towards more sophisticated concepts and aesthetic judgment.
AP 3-D Art and Design 1 credit	531431 531432	Prerequisites: Fundamentals of Art and Design, 3-D Foundations, and Advanced 3-D Foundations
		Description: The goal of this course is to create a portfolio of college-level work and submit it for evaluation. The course contains two sections. The Sustained Investigation section requires the student to conduct an inquiry-guided investigation through practice, experimentation, and revision. The Selected Works section allows the student to demonstrate skillful synthesis of materials, processes, and ideas. For both section of the portfolio, the student will be expected to share information in writing about their work.
Photography and Media	541111	Prerequisites: Fundamentals of Art and Design
Arts 1 credit	541112	Description: This course offers an introduction to the fundamentals of photography, digital media, and computer graphics by creating visual images through the formulation of concept, composition, and execution.
Photography and Media	541121 541122	Prerequisites: Fundamentals of Art and Design
Arts Honors 1 credit		Description: The framework for this course will be similar to that of Photography and Media Arts but with increased expectations in terms of development of technique, craftsmanship, and intrinsic motivation as students work towards more sophisticated concepts and techniques.
Advanced Photography and Media Arts	541211 541212	Prerequisites: Fundamentals of Art and Design and Photography and Media Arts
1 credit	J#1414	and I hotography and Media Arts
		Description: This course offers students the opportunity to expand upon the basic techniques developed in Photography and Media Arts by enhancing their skills through the production of

		1'4' 4 1 6 701' '11
		more sophisticated forms. This course will incorporate the elements and principles of design as well as the historical origins and contemporary practices.
Advanced Photography and Media Arts Honors 1 credit	541221 541222	Prerequisites: Fundamentals of Art and Design and Photography and Media Arts
1 02000		Description: The framework for this course will be similar to that of Advanced Photography and Media Arts but with increased expectations in terms of development of technique, craftsmanship, and intrinsic motivation as students work towards more sophisticated concepts and techniques.
Photography and Media Arts Studio 1 credit	541311 541312	Prerequisites: Fundamentals of Art and Design, Photography and Media Arts, and Advanced Photography and Media Arts
		Description: This studio course is designed to facilitate the opportunity for exploration and/or development of a portfolio through an in-depth study of a field of interest. Students will work on assigned and teacher-approved independent projects by using inquiry, investigation, experimentation, and application.
Arts Studio Honors 1 credit	541321 541322	Photography and Media Arts, and Advanced Photography and Media Arts
		Description: The framework for this course will be similar to that of Advanced Photography and Media Arts Studio but with increased expectations in terms of development of technique, craftsmanship, and intrinsic motivation as students work towards more sophisticated concepts and techniques.
AP 2-D Art and Design 1 credit	541431 541432	Prerequisites: Fundamentals of Art and Design, Photography and Media Arts, and Advanced Photography and Media Arts
		Description: The goal of this course is to create a portfolio of college-level work and submit it for evaluation. The course contains two sections. The Sustained Investigation section requires the student to conduct an inquiry-guided investigation through practice, experimentation, and revision. The Selected Works section allows the

student to demonstrate skillful synthesis of
materials, processes, and ideas. For both sections
of the portfolio, the student will be expected to
share information in writing about their work.

### **MUSIC COURSES**

	CO	DURSES
Concert Band 1 credit	550311 550322	Prerequisites: Previous instrumental experience  Description: The members of the Concert Band will find the opportunity in this organization to continue the development of basic individual musical skills and ensemble performance concepts. Class work will emphasize the development of technical proficiency and musical independence, as well as ensemble performance skills. Performance responsibilities include participation at all concerts, rehearsals, and sectionals, and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple times.
Concert Band Honors 1 credit	550421 550422	Prerequisites: Previous instrumental experience  Description: The members of the Concert Band Honors will find the opportunity in this organization to continue the development of basic individual musical skills and ensemble performance concepts. Class work will emphasize the development of technical proficiency and musical independence, as well as ensemble performance skills. Performance responsibilities include participation at all concerts, rehearsals, and sectionals, and responsible preparation of the music. Additional honors requirements as assigned by the teacher are required for this course. Time outside the normal school day may be required. This course may be taken multiple times.
Symphonic Band 1 credit	550511 550512	Prerequisites: Previous instrumental experience  Description: This course is available for grades 10 through 12. The members of the Symphonic Band will find the opportunity in this organization to continue the development of basic individual musical skills and ensemble performance concepts. Class work will emphasize the development of technical proficiency and musical independence as well as ensemble performance skills. Performance responsibilities

		include participation at all concerts, rehearsals,
		and sectionals and responsible preparation of the
		music. Time outside the normal school day may
		be required. This course may be taken multiple
		times.
Symphonic Band Honors	550621	Prerequisites: Previous instrumental experience
1 credit	550622	Trorequisites. Trevious instrumental experience
1 credit	330022	Description: This course is available for grades 10 through 12. The members of the Symphonic Band Honors will find the opportunity in this organization to continue the development of basic individual musical skills and ensemble performance concepts. Class work will emphasize the development of technical proficiency and musical independence as well as ensemble performance skills. Performance responsibilities include participation at all concerts, rehearsals, and sectionals, and responsible preparation of the music. Additional honors requirements as assigned by the teacher are required for this course. Time outside the normal school day may be required. This course may be taken multiple times.
Wind Ensemble 1 credit	550911 550912	Prerequisites: Audition
T credit	330712	Description: This course is available for grades 10 through 12. This organization is made up of selected students with an expressed interest in wind ensemble performance as well as a high level of musical development and independence. Members of Wind Ensemble form many smaller instrumental groups of composer-specified instrumentation. Wind Ensemble experience emphasizes student participation in flexible instrumental combinations. Most repertoire, however, is one performer per part. Wind Ensemble provides the accomplished student musician with an alternative vehicle for musical participation that is unique to this smaller instrumental grouping. Performance responsibilities include participation at all concerts, rehearsals, and sectionals, and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple times.

Wind Ensemble Honors	551021	Prerequisite: Audition
1 credit	551022	
T Credit		Description: This course is available for grades 10 through 12. This organization is made up of selected students with an expressed interest in wind ensemble performance as well as a high level of musical development and independence. Members of Wind Ensemble Honors form many smaller instrumental groups of composer-specified instrumentation. The Wind Ensemble Honors experience emphasizes student participation in flexible instrumental combinations. Most repertoire, however, is one performer per part. Wind Ensemble Honors provides the accomplished student musician with an alternative vehicle for musical participation that is unique to this smaller instrumental grouping. Performance responsibilities include participation at all concerts, rehearsals, and sectionals, and responsible preparation of the music. Additional honors requirements as assigned by the teacher are required for this course. Time outside the normal school day may be required. This course may be taken multiple times.
Jazz Ensemble	551111	Prerequisites: Previous enrollment in music
0 credits	551112	program  Description: Students receive instruction on jazz
		style, phrasing, and improvisation. Several
		performances throughout the year enable students to demonstrate what they have learned in a
		variety of concert settings. Time outside the
		normal school day may be required. (This course may not be used to meet the graduation credit
		requirement and will not be considered in
		determining grade point average or class rank.)
Treble Choir	560111	This course may be taken multiple times.  Prerequisites: Prior singing experience is helpful.
1 credit	560111	Treble voices only
		Description: Treble Choir is an organization of
		treble voices which explores literature composed or arranged specifically for voice. Performance
		responsibilities include participation at all con-
		certs, rehearsals, and sectionals; a positive
		attitude toward development of talents and skills;

		and responsible preparation of the music. Time
		outside the normal school day may be required.
		This course may be taken multiple times.
Treble Choir Honors	560221	Prerequisites: Prior singing experience is
1 credit	560222	helpful. Treble voices only
		Description: Treble Choir Honors is an
		organization of treble voices which explores
		literature composed or arranged specifically for
		voice. Performance responsibilities include participation at all concerts, rehearsals, and
		sectionals; a positive attitude toward develop-
		ment of talents and skills; and responsible
		preparation of the music. Additional honors
		requirements as assigned by the teacher are re-
		quired for this course. Time outside the normal
		school day may be required. This course may be
	5.00211	taken multiple times.
Concert Choir 1 credit	560311 560312	Prerequisites: None
1 credit	360312	Description: Mambara of this about will deal with
		Description: Members of this choir will deal with four-part (SATB) literature. Performance
		responsibilities include participation at all con-
		certs, rehearsals, and sectionals; a positive
		attitude toward development of talents and skills;
		and responsible preparation of the music. Time
		outside the normal school day may be required.
		This course may be taken multiple times.
<b>Concert Choir Honors</b>	560421	Prerequisites: None
1 credit	560422	Description Month on the control of the second state of the second
		Description: Members of this choir will deal with four-part (SATB) literature. Performance
		responsibilities include participation at all con-
		certs, rehearsals, and sectionals; a positive
		attitude toward development of talents and skills;
		and responsible preparation of the music.
		Additional honors requirements as assigned by
		the teacher are required for this course. Time out-
		side the normal school day may be required. This
Cantava	560561	course may be taken multiple times.
Cantare 1 credit	560561 560562	Prerequisites: Director approval
1 Clouit	200202	Description: Cantare is an organization of treble
		voices which explores literature composed or
		arranged specifically for voice. Performance re-
		sponsibilities include participation at all concerts,

Cantare Honors 1 credit	560721 560722	rehearsals, and sectionals; a positive attitude toward development of talents and skills; and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple times.  Prerequisites: Director approval  Description: Cantare is an organization of treble voices which explores literature composed or arranged specifically for voice. Performance responsibilities include participation at all concerts, rehearsals, and sectionals; a positive attitude toward development of talents and skills; and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple times.
A Cappella Choir 1 credit	560911 560912	Prerequisites: Audition
A Cappella Choir Honors	561021	Description: This choir is the most advanced of the choral music program. Students can expect to receive in-depth instruction in the development of their talent through the continuing process of vocal training, ear training, presentation of information regarding the historical periods of music compositions and composers, and through the preparation and performance of the most challenging and highest quality choral music. Performance responsibilities include participation at all concerts, rehearsals, and sectionals; a positive attitude toward development of talents and skills; and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple times.  Prerequisites: Audition
1 credit	561021	
		Description: This course is the most advanced of the choral music program. Students can expect to receive in-depth instruction in the development of their talent through the continuing process of vocal training, ear training, presentation of information regarding the historical periods of music compositions and composers, and through the preparation and performance of the most challenging and highest quality choral music. Performance responsibilities include

		participation at all concerts, rehearsals, and
		sectionals; a positive attitude toward develop-
		ment of talents and skills; and responsible
		preparation of the music. Additional honors
		requirements as assigned by the teacher are
		required. Time outside the normal school day
		may be required. This course may be taken
	7.61111	multiple times.
Chorale 1 credit	561111 561112	Prerequisites: Audition
	201112	Description: This course is available for grades
		10 through 12. Chorale is the most advanced
		course of the choral music program. Students can
		expect to receive in-depth instruction in the
		development of their talent through the continu-
		ing process of vocal training, ear training,
		presentation of information regarding the histori-
		cal periods of music compositions and
		composers, and through the preparation and
		performance of the most challenging and highest
		quality choral music. Performance responsibili-
		ties include participation at all concerts,
		rehearsals, and sectionals; a positive attitude
		toward development of talents and skills; and
		responsible preparation of the music. Time out-
		side the normal school day may be required. This
Charala Harrana	5(1221	course may be taken multiple times.
Chorale Honors 1 credit	561221 561222	Prerequisites: Audition
		Description: Chorale Honors is the most
		advanced course of the choral music program.
		Students can expect to receive in-depth instruc-
		tion in the development of their talent through the
		continuing process of vocal training, ear training,
		presentation of information regarding the histori-
		cal periods of music compositions and
		composers, and through the preparation and
		performance of the most challenging and highest
		quality choral music. Performance responsibili-
		ties include participation at all concerts,
		rehearsals, and sectionals; a positive attitude toward development of talents and skills; and
		responsible preparation of the music. Additional
		honors requirements as assigned by the teacher
		nonois requirements as assigned by the teacher

		are required for this course. Time outside the normal school day may be required. This course may be taken multiple times.
Madrigal Singers 0 credits	561510	Prerequisites: Previous enrollment in music program and audition
		Description: Madrigal Singers meet as an evening music enrichment activity. Members of these ensembles will study and perform sacred and secular choral music of the sixteenth century through the twentieth century and Christmas music from that same time period. Time outside the normal school day may be required. (This course may not be used to meet the graduation credit requirement and will not be considered in determining grade point average or class rank.) This course may be taken multiple times.
Concert Orchestra	570111	Prerequisites: Experience on string instruments
Concert Orchestra Honors	570221	Description: This course is available for grades 9 and 10. The members of Concert Orchestra will find the opportunity in this organization to continue the development of basic individual musical skills and ensemble performance concepts. Class work will emphasize the development of technical proficiency and musical independence, as well as ensemble performance skills. Performance responsibilities include participation at all concerts, rehearsals, and sectionals and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple times.
Concert Orchestra Honors 1 credit	570221 570222	Prerequisites: Previous experience on string instruments
		Description: The members of Concert Orchestra Honors will find the opportunity in this organization to continue the development of basic individual musical skills and ensemble performance concepts. Class work will emphasize the development of technical proficiency and musical independence as well as ensemble performance skills. Performance responsibilities include participation at all concerts, rehearsals, and sectionals and responsible preparation of the

		music. Additional honors requirements as
		assigned by the teacher are required for this
		course. Time outside the normal school day may
		be required. This course may be taken multiple
		times.
Symphony Orchestra	570311	Prerequisites: Audition
1 credit	570311	Trerequisites. Audition
1 Cledit	370312	Description: Symphony Orchestra membership
		includes select wind and percussion instru-
		mentalists along with the string students who
		choose this as a continuation of their musical
		training. Activities include school concerts;
		district-wide Orchestra Festival; midwinter and
		spring concerts; WSMA contests; special per-
		formances at civic, state, and national
		conventions; and clinical presentations by invita-
		tion, convocation, and commencement.
		Performance responsibilities include participa-
		tion at all concerts, rehearsals, and sectionals and
		responsible preparation of the music. This course
		may be taken multiple times.
Symphony Orchestra	570421	Prerequisites: Audition
Honors Honors	570422	
1 credit		Description: Symphony Orchestra Honors
		membership includes select wind and percussion
		instrumentalists along with the string students
		who choose this as a continuation of their musi-
		cal training. Activities include school concerts;
		district-wide Orchestra Festival; midwinter and
		spring concerts; WSMA contests; special per-
		formances at civic, state, and national
		conventions; and clinical presentations by
		invitation, convocation, and commencement.
		Performance responsibilities include participa-
		tion at all concerts, rehearsals, and sectionals and
		responsible preparation of the music. Additional
		honors requirements as assigned by the teacher
		are required for this course. This course may be
	550510	taken multiple times.
Chamber Orchestra 0 credits	570510	Prerequisites: None
		Description: Participation in Chamber Orchestra
		is only offered to students already enrolled in the
		music program. Performances at social civic,
1		
		state, and out-of-state events provide the student

		social skills through this experience. Student musicians wishing to improve their sight-reading ability and to develop an understanding of a variety of musical styles not frequently encountered in full orchestra activities are encouraged to enroll. These organizations expose students to music which is enjoyable to play yet includes master works of the great composers. Performance responsibilities include participation at all concerts, rehearsals, and sections and responsible preparation of the music. Time outside the normal school day may be required. (This course may not be used to meet the graduation credit requirement and will not be considered in determining grade point average or class rank.) This course may be taken multiple times.
Alternative Strings	570610	Prerequisites: None
0 credits		Description: Participation in the Alternative
Golden Strings	570710	Strings is only offered to students already enrolled in the music program. Students will be performing various styles of music including: jazz, fiddle, and popular music. Students will learn improvisational skills. Performances at social, civic, state, and out-of-state events provide the student with the opportunity to developmusical as well as social skills through these experiences. Time outside the normal school day may be required. (This course may not be used to meet the graduation credit requirement and will not be considered in determining grade point average or class rank.) This course may be taken multiple times.
Golden Strings 0 credits	570710	Prerequisites: Tremper
o creates		Description: Participation in the Golden Strings is only offered to students already enrolled in the Tremper music program. Performances at social, civic, state, and out-of-state events provide the student with opportunities to develop musical as well as social skills throughout these experiences. Time outside the normal school day may be required. (This course may not be used to meet the graduation credit requirement and will not be

		considered in determining grade point average or class rank.) This course may be taken multiple times.
Music: A Listener's Survey ½ credit	570810	Prerequisites: None
		Description: This course is available for grades 10 through 12. Students will study many forms and styles of music by listening to a wide variety of musical compositions. Students should develop an understanding of the elements of music; knowledge of the vocabulary of music; the ability to evaluate music and musical performances qualitatively; knowledge of representative master works of various types; an understanding of the origin, evolution, and cultural significance of twentieth century music; and receptivity to music of different types, styles, and mediums.
Music Theory Honors 1 credit	570921 570922	Prerequisites: None
	570021	Description: This course is available for grades 10 through 12. Music Theory is an academic music course which is designed to develop student comprehension of harmony, ear training, sight singing, music history, notation, arranging, keyboard composition, and counterpoint. Students will write music and gain a working knowledge of the elements and theory of music. Emphasis will be placed on individual musical growth and preparation for advance study of music at the college level.
Advanced Placement Music Theory	570931 570932	Prerequisites: Music Theory
1 credit		Description: This course is available for grades 10 through 12. Advanced Placement Music Theory is designed to follow the College Board guidelines and is comparable to college-level music theory courses. Any student who has successfully completed the Music Theory Honors course may register for Advanced Placement Music Theory. Students entering Advanced Placement Music Theory have a solid understanding of essential rudimentary elements of music theory: scales, key signatures, circle of fifths, intervals, triads, and inversions—to name a few. Musical composition, sequencing, and

Roots/Blues Guitar 1 credit	571011 571012	use of MIDI digital formats are some of the many applications employed to further student understanding of music theory. Students are strongly encouraged to successfully complete this class and take the Advanced Placement Examination to potentially earn college credit.  Prerequisites: None  Description: Roots/Blues Guitar initiates students into the art of playing basic acoustic blues guitar along with providing them with significant glimpses into the historical, geographical, and sociological factors that shaped this genre. Each student will spend time learning essential scales, chords, and blues patterns while absorbing the cultural background that caused this music to travel upstream from the deep Delta Region north to Chicago and beyond.
Intro to Digital Composition 1/2 credit	571210	Prerequisites: None  Description: The composition section of the course explores four key elements of music: melody, harmony, form, and style. This will be accomplished by using modern production software, which is a key element in the music industry. This portion of the course will allow the students to take samples of music and arrange them in a way to express their creative side.
Digital Composition  1/2 credit	571211 571212	Prerequisites: Intro to Digital Composition (571210)  Description: The intermediate composition section of the course deepens understanding of the four key elements of music: melody, harmony, form, and style. This will be accomplished by using modern production software, which is a key element in the music industry. This portion of the course will allow the students to create and arrange their own original music.
Intro to Recording Technology  1/2 credit	571410	Prerequisites: Intro to Digital Composition (571210) and Digital Composition (571211 and 571212)  Description: Students build on skills learned in the previous two courses to develop expertise in live recording situations and mixing.

Solution
(571210), and Digital Composition (571211 and 571212)  **Description:* Students build on the live recording and mixing learned in the previous course to create a final refined product.  **Intro to Guitar Studies**  1/2 credit*  **Description:* This course is designed for the beginning guitarist to introduce the instrument*
Description: Students build on the live recording and mixing learned in the previous course to create a final refined product.  Intro to Guitar Studies  1/2 credit  Description: This course is designed for the beginning guitarist to introduce the instrument
Description: Students build on the live recording and mixing learned in the previous course to create a final refined product.  Intro to Guitar Studies  1/2 credit  Description: This course is designed for the beginning guitarist to introduce the instrument
and mixing learned in the previous course to create a final refined product.  Intro to Guitar Studies  571610  Prerequisites: None  Description: This course is designed for the beginning guitarist to introduce the instrument
and mixing learned in the previous course to create a final refined product.  Intro to Guitar Studies  571610  Prerequisites: None  Description: This course is designed for the beginning guitarist to introduce the instrument
and mixing learned in the previous course to create a final refined product.  Intro to Guitar Studies  571610  Prerequisites: None  Description: This course is designed for the beginning guitarist to introduce the instrument
create a final refined product.  Intro to Guitar Studies  571610  Prerequisites: None  Description: This course is designed for the beginning guitarist to introduce the instrument
Intro to Guitar Studies  ½ credit  Description: This course is designed for the beginning guitarist to introduce the instrument
½ credit  **Description: This course is designed for the beginning guitarist to introduce the instrument
Description: This course is designed for the beginning guitarist to introduce the instrument
beginning guitarist to introduce the instrument
and amphasize avanciase accomment that the
and emphasize exercises concerning note read-
ing, value, and placement on the guitar. Course
objectives will include basic melody and chord
playing in both solo and ensemble performance.
Guitar Studies 1 571711 Prerequisites: Intro to Guitar Studies (571610)
½ credit 571712
Description: For the intermediate guitarist, this
course emphasizes exercises concerning major
and minor scales, common chord progressions,
and improvisational techniques. Students may
repeat this course.
Guitar Studies 2 571811 Prerequisites: Guitar Studies 1 (571711 and
½ credit 571812 571712)
Description: This advanced level course
continues to develop skills around major and
minor scales, more difficult chord progressions,
and further improvisational techniques. This
course will also further develop the students'
capacity to play to an authentic audience.
½ credit
Description: This course introduces the history
and methods of playing the drums and of the in-
strument itself. This beginner level course will
focus on technique, reading basic rhythms, and
learning how and what to listen for while par-
ticipating in a drum circle. Experience in
drumming is not necessary to take this course.
Most of all, the content will focus on students
· · · · · · · · · · · · · · · · · · ·
finding their own way to express their inner
rhythms while making musical connections.
World Drumming 1 572011 Prerequisites: Intro to World Drumming
½ credit 572012 (571910)

		Description: For the intermediate drumming student, this course continues to build more advanced techniques while extending the learning about drum circles. Students will continue to learn about the history of drum circles and their connection to local history.
World Drumming 2  ½ credit	572111 572112	Prerequisites: World Drumming 2 (572111 and 572112)
		Description: For the advanced drumming student, this course deepens skills used during drum circles. Students will be pushed to develop their own drum circle and its unique story. The course will also further develop the student's capacity to play to an authentic audience.
<b>Introduction to High School</b>	473111	Prerequisites: No music experience needed
Orchestra 1 credit	573112	Description: This course is available for grades 9 through 12. The members of Introduction to
		High School Orchestra will find the opportunity in this organization to develop individual musical skills and beginning string technique on violin, viola, cello, and double bass. Class work will emphasize the development of technical proficiency and musical independence as well as ensemble performance skills. Performance responsibilities include participation at all concerts, rehearsals, and sectionals and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple times.
Introduction to High School Orchestra Honors	573121 573122	Prerequisites: No music experience needed
1 credit	313122	Description: This course is available for grades 9 through 12. The members of Introduction to High School Orchestra will find the opportunity in this organization to develop individual musical skills and beginning string technique on violin, viola, cello, and double bass. Class work will emphasize the development of technical proficiency and musical independence as well as ensemble performance skills. Performance responsibilities include participation at all concerts, rehearsals, and sectionals and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple times.

573211	Prerequisites: Experience on string instruments
3,3212	Description: This course is available for grades 10 through 12. The members of String Orchestra will find the opportunity in this organization to continue the development of basic individual musical skills and ensemble performance concepts. Class work will emphasize the development of technical proficiency and musical independence as well as ensemble performance skills. Performance responsibilities include par-ticipation at all concerts, rehearsals, and sectionals and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple times.
573221 573222	Prerequisites: Experience on string instruments  Description: This course is available for grades 10 through 12. The members of String Orchestra will find the opportunity in this organization to continue the development of basic individual musical skills and ensemble performance concepts. Class work will emphasize the development of technical proficiency and musical independence as well as ensemble performance skills. Performance responsibilities include par-ticipation at all concerts, rehearsals, and sectionals and responsible preparation of the music. Time outside the normal school day may be required. This course may be taken multiple
	573212 573221

# THEATRE ARTS COURSES

	CO	DURSES
Drama 1 ½ credit	580110	Prerequisites: None
		Description: This class focuses on the fundamentals of stage presentation with an emphasis on acting and drama through performance. Students will learn basic voice and body techniques, participate in theater games, activities,
Drama 2	580210	improvisation and play analysis.  Prerequisites: Drama 1 (580110)
½ credit	300210	Description: This class focuses more intensely on drama as a performance art. Students will study well-known theories and techniques of acting, learn various applications for stage makeup, use of lighting, costume, sound, and techniques of set design and construction. The history of the theater will be studied covering the major periods and playwrights from early Greek drama through modern. Emphasis is on drama through performance. Solo and group scenes will be prepared and presented.
Drama 3	580310	Prerequisites: Drama 2 (580210)
72 credit		Description: Drama 3 focuses on specific approaches to acting, covering the works of Stanislavski, Adler, and others. Theater history will continue from The Restoration to the present. An introduction to stage movement and dance will also be offered.
Acting 1 1 credit	580411 580412	Prerequisites: None
		Description: This course serves as a foundation for the four-year program in the theatre specialty. Students will study basic skills needed in performance with an emphasis on developing the body, voice, and various technical aspects of the theatre. The technical aspects covered include stage makeup, set design, set construction, costuming, business skills, designing, and performance resumes. The acting skills covered include improvisational skills and acting techniques. A four-year historical study beginning with the theory of the origins of theatre to Greek

		and Roman theatre will also be introduced. Throughout the four-year program, students will develop a portfolio revealing their progress made over the entire four years. Additional honors requirements as assigned by the teacher are required for this course.
Acting 1 Honors 1 credit	580521 580522	Prerequisites: None
		Description: Acting 1 Honors serves as a foundation for the four-year program in the theatre specialty. Students will study basic skills needed in performance with the emphasis on developing the body, voice, and various technical aspects of the theater. The technical aspects covered include stage makeup, set design, set construction, costuming, business skills, designing programs, and performance resumes. The acting stills covered include improvisational skills and acting techniques. A four-year historical study beginning with the theory of the origins of theatre to Greek and Roman theatre will also be introduced. Throughout the four-year program, students will develop a portfolio revealing their progress made over the entire four years. Additional honors requirements as assigned by the teacher are required for this course.
Acting 2 1 credit	580611 580612	Prerequisites: Acting 1 (580411 or 580412 or 580521 and 580522)  Description: This course is available for grades 10 through 12. Students continue to study basic skills needed in performance with emphasis on developing the body and voice. Historical study will highlight the Renaissance period. Students will continue to develop a portfolio revealing their progress made over the entire four years.
Acting 2 Honors 1 credit	580721 580722	Prerequisites: Acting 1 (580411 and 580412 or 580521 and 580522)
		Description: This course is available for grades 10 through 12. Acting 2 Honors students will continue to study basic skills needed in performance with emphasis on developing the body and voice. Historical study will highlight

Theatre Practicum 0 credit	581011 581012	the Renaissance period. Students will continue to develop a portfolio revealing their progress made over the entire four years. Additional honors requirements as assigned by the teacher are required for this course.  Prerequisites: All students will audition for placement.  Description: Students will study a variety of
		theatre and musical theatre literature. The class culminates with a full performance of a complete work for the stage. This course may be taken multiple times.
Theatre Practicum Honors 0 credit	581121 581122	Prerequisites: All students will audition for placement.
		Description: Theater Practicum Honors students will study a variety of theater and musical theater literature. The class culminates with a full performance of a complete work for the stage. Additional honors requirements as assigned by the teacher are required for this course. This course may be taken multiple times.
Musical Theatre Vocal Techniques	581211 581212	Prerequisites: None
1 credit		Description: Students will learn speech and singing techniques through the study of vocal anatomy, diction, breathing, and placement.
Musical Theatre Vocal Techniques Honors	581321 581322	Prerequisites: None
1 credit		Description: Musical Theatre Vocal Techniques Honors students will learn speech and singing techniques through the study of vocal anatomy, diction, breathing, and placement. Additional honors requirements as assigned by the teacher are required for this course.
Stagecraft 1 1 credit	581411 581412	Prerequisites: None
		Description: This course provides an introduction to procedures and theories of theatrical production including stage equipment, scenic construction, scenic painting, technical personnel duties, practical applications, and work on current productions.

Stagecraft 2	581511	Prerequisites: Stagecraft 1 (581411 and 581412)
1 credit	581512	Description: This course is available for grades 10 through 12. The course provides a continuation of the procedures and theories of theatrical production including stage equipment, scenic construction, scenic painting, technical duties, and practical applications through work on current productions. This course may be taken multiple times.
Stagecraft 2 Honors 1 credit	581621 581622	Prerequisites: Stagecraft 1 (581411 and 581412)
		Description: This course is available for grades 10 through 12. Stagecraft 2 Honors is a continuation of the procedures and theories of theatrical production including stage equipment, scenic construction, scenic painting, technical duties, and practical applications through work on current productions. Additional honors requirements as assigned by the teacher are required for this course. This course may be taken multiple times.
Scenic Design 1 credit	581711 581712	Prerequisites: Stagecraft 1 (581411 and 581412)
		Description: This course is available for grades 10 through 12. Students are introduced to basic theoretical and practical techniques of design. Instruction will include design theory, color theory, basics of hand drafting, stage layout, and spatial relationships. Class will be project based and include model building, artistic analysis, and script interpretation. This course may be taken multiple times.
Scenic Design Honors 1 credit	581821 581822	Prerequisites: Stagecraft 1 (581411 and 581412)
		Description: This course is available for grades 10 through 12. Scenic Design Honors students are introduced to basic theoretical and practical techniques of design. Instruction will include design theory, color theory, basics of hand drafting, stage layout, and spatial relationships. Class will be project based and include modelbuilding, artistic analysis, and script interpretation. Additional honors requirements as assigned by the teacher are required for this course. This course may be taken multiple times.

Stage Management	581911	Prerequisites: None
<u>Practicum</u>	581912	
0 credit		Description: This is an introductory course in the skills and principles of theatrical production. Includes stage equipment, technical crew duties, and work on current productions. It provides the stage crew needed for Bradford's productions. This class meets outside of the school day. This course may be taken multiple times.

# **DANCE COURSES**

	CC	DURSES
Introduction to Dance 1 or 2 credits	590111 590112	Prerequisites: None
		Description: This dance level class focuses on developing the inexperienced dancer in several areas. The technical focus on:
		1. Ballet
		<ul><li>A. Alignment,</li><li>B. Verticality, and</li><li>C. Basic ballet movements;</li></ul>
		2. Modern
		A. Basic movement and B. Basic form; and
		3. Jazz
		A. Basic percussive style and
		B. Basic lyrical jazz style.
		Students will gain a greater knowledge in the background of dance and experience firsthand the technical aspects and creativity that a dancer has to offer. This course does not meet physical education requirements.
Dance 2 1 or 2 credits	590211 590212	Prerequisites: Introduction to Dance (590111 and 590112)
		Description: This course is available for grades 10 through 12. This dance level class is a continuation of Introduction to Dance with technique training in the areas of ballet, modern, and jazz. Students will also be introduced to improvisation/composition. They will be responsible to create, choreograph, and perform the skills and techniques they are learning in class. Students will increase skills in turn out, balance, rhythm

		patterns, memorization, and choreography as well as performance presentation. This course does not meet physical education requirements.
Damas 2	500211	
Dance 3	590311	Prerequisites: Audition
1 or 2 credits	590312	
		Description: This course is available for grades
		10 through 12. This course seeks to improve your
		technical skills in dance through a combination of
		ballet, modern, and jazz techniques. It aims to
		develop your understanding of your body in
		motion using an experimental approach of self-
		discovery. It is targeted to students with
		considerable knowledge in all techniques and
		with the desire to find their uniqueness as artists.
		Important emphasis will be placed on physical
		strengthening, placement, memorization, execu-
		tion of step combinations, and musicality. This
		class will focus more on composition and
		performance skills. Final exams will consist of
		both learning and creating repertoire for the
		yearly dance performance presented profess-
		sionally. This course does not meet physical
		• • • • • • • • • • • • • • • • • • •
		education requirements.

#### HEALTH AND PHYSICAL EDUCATION

#### **REGISTRATION GUIDELINES**

Continuing from the 2011-12 school year, 1.5 credits of physical education must be earned in 3 separate school years per Wisconsin Department of Public Instruction High School Graduation Standards (PI 18.03 Wisconsin Administrative Code) and Wisconsin Education Instruction Physical Education Standards S121.02. Physical education and one-half credit of health may be taken in the same year. Additional physical education classes can be taken during one year for elective credit only.

Students shall be granted an exemption from physical education for medical reasons upon presentation of a physician's statement. Students shall be required to make up all exempt physical education credits by taking the same number of credits in another elective subject(s).

COURSES		
Physical Education	611010	Prerequisites: None
<b>Foundations</b>		
½ credit		Description: Physical Education Foundations will introduce fitness to students through many different activities, including team sports, individual sports, and organized fitness activities. Implementation of the SPARK curriculum for high school will come from Physical Education Foundations. This course must be successfully completed before entering any of the other offered physical education courses.
Lifetime Fitness	610210	Prerequisites: Physical Education Foundations
½ credit	010210	(611010)
		Description: Lifetime Fitness class will teach students fitness and the importance of fitness through team sports and team building. Students will have opportunity to cooperatively learn the importance of staying fit and the healthy aspects of lifetime sports. SPARK curriculum will continue with emphasis on team lessons.
Lifetime Fitness Elective ½ elective credit	632010	Prerequisites: Graduation requirements in physical education must be completed to take this course.
		Description: Lifetime Fitness class will teach students fitness and the importance of fitness through team sports and team building. Students will have an opportunity to cooperatively learn

		the importance of staying fit and the healthy aspects of lifetime sports. SPARK curriculum will continue with emphasis on team lessons.
Active Lifestyles ½ credit	613010	Prerequisite: Physical Education Foundations (611010)
		Description: Active Lifestyles class emphasizes the importance of staying fit and healthy individually. Students will be able to learn different ways to take responsibility for their fitness and health through individual lifetime sports and individual fitness opportunities. SPARK curriculum will continue with emphasis on individual fitness building lessons.
Active Lifestyles Elective 1/2 elective credit	633010	Prerequisites: Graduation requirements in physical education must be completed to take this course.
		Description: Active Lifestyles class emphasizes the importance of staying fit and healthy individually. Students will be able to learn different ways to take responsibility for their fitness and health through individual lifetime sports and individual fitness opportunities. SPARK curriculum will continue with emphasis on individual fitness building lessons.
Personal Fitness ½ credit	614010	Prerequisites: Physical Education Foundations (611010)
		Description: Personal Fitness class is primarily held in the school's fitness center/weight room. The class will introduce and incorporate a fitness plan for students to follow and transition into each student developing and implementing his/her own personalized fitness plan. Where appropriate, SPARK curriculum will be incorporated into lessons.
Personal Fitness Elective 1/2 elective credit	634010	Prerequisites: Graduation requirements in physical education must be completed to take this course.
		Description: Personal Fitness class is primarily held in the school's fitness center/weight room. The class will introduce and incorporate a fitness plan for students to follow and transition into each student developing and implementing

		his/her own personalized fitness plan. Where appropriate, SPARK curriculum will be incorporated into lessons.
Health Education ½ credit	620110	Prerequisites: None
		Description: Health is a graduation requirement. This course deals with the critical health needs and problems of today. The course is based on scientific information that has as its purpose the development of knowledge and the cultivation of desirable attitudes, habits, and practices. Topics include cardiopulmonary resuscitation (CPR), automated external defibrillator (AED), first aid, nutrition, tobacco, alcohol, other drugs, diseases, human growth and development, family life curriculum, mental health, and environmental health issues.
<b>Physical Education:</b>	664119	Prerequisites: None
Specially Designed 1/2 credit		Description: This co-ed course fulfills a half-credit graduation requirement. Registration for this course is IEP driven.

# **ENGLISH/LANGUAGE ARTS**

	CC	DURSES
Survey of Literature/	121011	Prerequisites: None
Composition	121012	
1 credit	121012	Description: Survey of Literature/Composition builds on the knowledge acquired in middle school and sets a foundation for the students' literature and writing skills used in high school. This literature-based course draws from a variety of genres. Students gain an understanding of the writing process, including prewriting, drafting, and revision for persuasive and expository writing. Skills in the areas of reading, writing, study strategies, listening, speaking, and research will be developed.
Survey of Literature/	121021	Prerequisites: None
Composition Honors	121021	Troreguistics. Tione
1 credit	121022	Description: Survey of Literature/Composition Honors is a literature-based course. Students will discuss and analyze literature from a variety of genres. Effective communication strategies will be practiced through both written and oral communication tasks. Each step of the writing process will be refined with particular focus on revision. Skills in the areas of reading, writing, study strategies, listening, speaking, and research in preparation for college will be developed.
World Literature/ Composition	122011 122012	Prerequisites: None
1 credit	122012	Description: World Literature/Composition is a literature-based composition course that will improve reading, writing, listening, viewing, and speaking skills. The primary focus will be world literature from ancient writings—both fiction and nonfiction—and current writings from non-American cultures. Students will develop reading strategies to interpret, analyze, and evaluate a variety of texts.
World Literature/	122021	Prerequisites: None
<b>Composition Honors</b>	122022	
1 credit		Description: World Literature/Composition Honors is a literature-based composition course that will improve reading, writing, listening, viewing, and speaking skills. The primary focus will be world literature from ancient

American Literature/ Composition 1 credit	123011 123012	writings—both fiction and nonfiction—and current writings from non-American cultures. Students will develop higher level thinking skills through critical reading and effective writing.  Prerequisites: None  Description: American Literature/Composition is a literature-based composition course that will improve reading, writing, listening, viewing, and speaking skills. The primary focus will be American literature from pre-Columbian American through the twenty-first century. Elements of composition will concentrate on the writing process, including expository and persuasive styles. Students will develop reading strategies to interpret, analyze, and evaluate a variety of texts.
American Literature/ Composition Honors 1 credit	123021 123022	Prerequisites: None  Description: American Literature/ Composition Honors is a literature-based composition course that will improve reading, writing, listening, viewing, and speaking skills. The primary focus will be American literature from pre-Columbian American through the twenty-first century. Students will develop higher level thinking skills through critical reading and effective writing.
Advanced Placement English Literature and Composition 1 credit	124031 124032	Prerequisites: None  Description: Advanced Placement Literature/Composition engages students in the careful reading and critical analysis of imaginative and discursive literature. Students will develop skills in writing expository, analytical, and argumentative essays about literature and related ideas. This is an introductory level college English course which focuses on writings by masters of the English language and includes works in translation, especially dramas and novels. Students are strongly encouraged to successfully complete this class and take the Advanced Placement Examination to potentially earn college credit.

Advanced Placement	125031	Prerequisites: None
English Language and	125032	
Composition 1 credit		Description: Advanced Placement Language/Composition focuses on both effective writing and critical reading at the level of an introductory college English course. Through attentive and continued analysis of a variety of prose texts, students will become skilled readers. The course will also give students the practice and helpful criticism necessary to make them flexible writers who can compose in a variety of modes and for a variety of purposes. Students will also acquire some knowledge of the evolution of English prose style since the Middle Ages and, by doing so, understand and use the expressive potential of language. Students are strongly encouraged to successfully complete this class and take the Advanced Placement Examination to potentially earn college credit.
Diverse Perspectives in	131011	Prerequisites: None
<b>Literature and Composition</b>	131012	
1 credit		Description: This course examines short stories,
		novels, and plays. Students analyze common themes in a range of literature. Students will also develop several compositions in a variety of modes and for a variety of purposes. The course focuses on the development of reading, writing, listening, and speaking skills and strategies.
Diverse Perspectives in	131021	Prerequisites: None
Literature and Composition	131022	Description: This course develops critical
Honors 1 credit		Description: This course develops critical thinking and effective writing skills and strate-
		gies. Students will analyze, critique, and evaluate
		complex text from a variety of genres. Students
		will write in response to literature as well as for a
Journalism 2	162011	wide range of purposes and in a variety of modes.  Prerequisites: Journalism 1 (171010)
1 credit	162012	17.6. equisites. vouliminin 1 (171010)
		Description: Students will experience all aspects
		of producing a school newspaper from
		assignment to circulation. Students will learn photo, art, and layout skills along with advertis-
		ing. The paper is produced on a Macintosh, so
		computer skills will be enhanced.
Journalism 2 Honors 1 credit	162021 162022	Prerequisites: None

		Description: Students will experience all aspects
		of producing a school newspaper from assignments to circulation. Students will be responsible for meeting deadlines and editing student work in preparation for publication.
Journalism 1	171010	Prerequisites: None
½ credit		
		Description: This course is offered for elective credit only. This survey course will study various
		aspects of media, including the beginnings of
		modern press, electronic journalism, the
		influence of media on society, etc. Emphasis on
		student writing, editing, and proofreading will direct students toward publication quality.
School Newspaper	172011	Prerequisites: None
1 credit	172012	1 to equipment 1 to 11
		Description: This course is offered for elective
		credit only. School Newspaper is a course focus-
		ing on the production of the school newspaper. Students will use the writing process, conductin-
		terview, and refine research skills. Students will
		also develop skills in layout and design,
		production responsibilities, and cooperative
Calad Names and Handard	172020	learning.
School Newspaper Honors  ½ credit	172020	Prerequisites: None
72 Cledit		Description: This course is offered for elective
		credit only. School Newspaper Honors is a course
		focusing on the production of the school
		newspaper. Students will use the writing pro-
		cess, conduct interviews, and refine research skills. Students will also develop skills in layout
		and design, production responsibilities, and
		cooperative learning.
<u>Yearbook</u>	173011	Prerequisites: None
1 credit	173012	
		Description: This course is offered for elective credit only. Yearbook is a course focusing on the
		production of the school yearbook. Students will
		use the writing process, conduct interviews, and
		refine research skills. Students will also develop
		skills in layout and design, fundraising, business
		responsibilities, and cooperative learning.

Yearbook Honors	173021	Prerequisites: None
1 credit	173022	
		Description: This course is offered for elective credit only. Yearbook Honors is a course not only focusing on the production of the school yearbook but also offering more rigorous challenges in this elective class through self-initiated and self-directed projects for students who have the interest and ability to work and achieve be-yond the basic course expectations. In addition to basic
		course expectations that students will use the writing process, conduct interviews, and refine research skills is that students will also develop skills in layout and design, fundraising, business responsibilities, and cooperative learning. Students will also meet with the instructor of this
		course to gain approval of a proposal for Honors
		Credit Option Plan. Students must submit a portfolio and a reflective evaluation for assess-
		ment and evaluation by the instructor to gain
		honors credit.
Digital Publication Design 1 credit	174011 174012	Prerequisites: None
Digital Publication	174021	Description: This course is offered for elective credit only. The student will successfully learn to use Web-based software in the preparation of the high school yearbook. Basic design principles will be discussed, identified, and applied to each project. Although templates are created for a yearbook a year ahead of time, students will also be assigned pages in current year's book. The student will also learn to scan and manipulate images into each project.  Prerequisites: None
Design Honors	174021	17 Crequisites. 110HC
1 credit		Description: This course is offered for elective credit only. The student will successfully learn to use Web-based software in the preparation of the high school yearbook. Basic design principles will be discussed, identified, and applied to each project. Although templates are created for a yearbook a year ahead of time, students will also be assigned pages in current year's book. The student will also learn to scan and manipulative images into each project.

Teen Leadership	812811	Prerequisites: None
		Trerequisites. None
1 credit	812812	
		Description: Teen Leadership is a course in
		which students develop leadership, professional,
		and business skills. Personal and professional
		1
		goal setting as well as principle-based decision
		making are included in the focus. Course
		competencies include:
		• Developing a healthy
		self-concept and healthy
		relationships;
		• Learning to understand the
		concept of personal
		1
		responsibility; and
		<ul> <li>Understanding emotional</li> </ul>
		intelligence, the effects of peer
		pressure, and problem-solving
		skills.

### **MATHEMATICS**

## **REGISTRATION GUIDELINES**

All courses are one credit unless specified otherwise. Three credits of mathematics are required for graduation.

GRADE	STANDARD PATHWAY	ACCELERATED PATHWAY*
_	Algebra 1	Geometry
9		OR
		Geometry Honors
	Geometry	<u>Choose from:</u> Algebra 2/Trigonometry
	OR	Algebra 2/111gonometry
	OK .	Algebra 2/Trigonometry Honors
10	Geometry Honors	ringeora 2, rrigonometry frontis
	j	Algebra 2/Modeling & Statistics
		Algebra 2/Modeling & Statistics
		Honors
	Choose from:	Choose from:
	Algebra 2/Trigonometry	Precalculus
	Algebra 2/Trigonometry Honors	Advanced Placement Precalculus
11	Algebra 2/Modeling & Statistics	Advanced Placement Statistics
	Algebra 2/Modeling & Statistics	Introduction to Data Science
	Honors	introduction to Butte science
		Quantitative Reasoning
	<u>Choose from:</u>	<u>Choose from</u> :
	Precalculus	Advanced Placement Calculus AB <sup>+</sup>
	Advanced Placement Precalculus	Advanced Placement Calculus BC <sup>+</sup>
12		(2 credits)
	Advanced Placement Statistics	, , , ,
		Advanced Placement Statistics
	Introduction to Data Science	
	Quantitative Reasoning	
	<u> </u>	<u> </u>

<sup>\*</sup>Students must have successfully completed Accelerated Eighth Grade Algebra 1 in order to enroll in Geometry or Geometry Honors as freshmen.

<sup>&</sup>lt;sup>+</sup>Students must have successfully completed Precalculus or Advanced Placement Precalculus to enroll in AP Calculus AB/BC.

	CC	DURSES
Algebra 1	312011	Prerequisites: None
1 credit	312012	_
		Description: Algebra 1 formalizes and extends
		the mathematics that students learned in the mid-
		dle grades. Students will deepen and extend their
		understanding of linear, quadratic, and expo-
		nential relationships to analyze, solve, and use
		these functions in modeling situations. The
		Standards for Mathematical Practice are applied
		throughout to provide students with a
		mathematical experience that makes use of their
G	221011	ability to make sense of problem situations.
Geometry 1 credit	321011 321012	Prerequisites: Algebra 1 (312011 and 312012)
		Description: This course is a study of plane and
		solid geometry. It includes precise definitions,
		theorems, and postulates relating to plane and
		solid figures. Students explore complex geome-
		tric situations and deepen their explanations of
		geometric relationships, moving towards formal
		mathematical arguments. The Standards for
		Mathematical Practice are applied throughout to
		provide students with a mathematical experience
		that makes use of their ability to make sense of problem situations.
Geometry Honors	322021	Prerequisites: Algebra 1 (312011 and 312012)
1 credit	322021	
		Description: This course is a rigorous study of
		plane and solid geometry. It includes precise
		definitions, theorems, and postulates relating to
		plane and solid figures. Students explore com-
		plex geometric situations and deepen their explanations of geometric relationships, moving
		towards formal mathematical arguments. The
		Standards for Mathematical Practice are applied
		throughout to provide students with a mathe-
		matical experience that makes use of their ability
		to make sense of problem situations.
Algebra 2/Trigonometry	331011	Prerequisites: Geometry (321011 and 321012) or
1 credit	331012	Geometry Honors (322021 and 322022)
		,
		Description: Building on their work with linear,
		quadratic, and exponential functions in
		Algebra 1, students extend their repertoire of
		functions to include polynomial, rational, and

		radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. This course also extends students' understanding of the trigonometric functions and includes a study of probability and statistics. The Standards for Mathematical practice are applied throughout to provide students with a mathematical experience that makes use of their ability to make sense of problem situations.
Algebra 2/Trigonometry Honors 1 credit	332021 332022	Prerequisites: Geometry (321011 and 321012) or Geometry Honors (321021 and 321022)
	222011	Description: Building on their work with linear, quadratic, and exponential functions in Algebra 1, students extend their repertoire of functions to include polynomial, rational, and radical functions. Students work closely with the expressions that define the functions and continue to expand and hone their abilities to model situations and to solve equations, including solving quadratic equations over the set of complex numbers and solving exponential equations using the properties of logarithms. This course also includes an in-depth study of the trigonometric functions as well as a study of probability and statistics. The Standards for Mathematical Practice are applied throughout to provide students with a mathematical experience that makes use of their ability to make sense of problem situations.
Algebra 2/Modeling & Statistics 1 credit	333011 333012	Prerequisites: Geometry (321011 and 321012) or Geometry Honors (321021 and 321022)
		Description: This course is designed to promote reasoning, problem solving, and modeling through thematic units focused on mathematical practices. The course builds upon previous knowledge and extends that knowledge to new situations to create a deeper understanding. This course would be especially appropriate for students who:

	Т	
		Anticipate a career in the arts or
		behavior sciences,
		• Anticipate a consent that
		<ul> <li>Anticipate a career that emphasizes utilizing</li> </ul>
		emphasizes utilizing measurements or units,
		measurements of units,
		Will pursue a pathway that does
		not require calculus, and/or
		<ul> <li>Enjoy hands-on collaborative</li> </ul>
		work within real-world contexts.
Algebra 2/Modeling &	333021	Prerequisites: Prerequisites: Geometry (321011
Statistics Honors	333022	and 321012) or Geometry Honors (321021 and
1 credit		321022)
		Description: This course is designed to promote
		reasoning, problem solving, and modeling
		through thematic units focused on mathematical
		practices. The course builds upon previous
		knowledge and extends that knowledge to new
		situations to create a deeper understanding. This
		course would be especially appropriate for
		students who:
		Anticipate a career in the arts or  helevior going as
		behavior sciences,
		• Anticipate a career that
		emphasizes utilizing
		measurements or units,
		<ul> <li>Will pursue a pathway that does</li> </ul>
		not require calculus, and/or
		P 1 1 1 11 11 11 11
		Enjoy hands-on collaborative  week within real world contexts.
<b>Ouantitative Reasoning</b>	342021	work within real-world contexts.  Prerequisites: Any Algebra 2 course
1 credit	342021	1 rerequisites. Any Aigeora 2 course
	3 12022	Description: This course is designed to teach
		students mathematical skills needed for in-
		formed decision making. Its emphasis is on
		mathematical reasoning and its practical applica-
		tion in a variety of contexts. Quantitative
		Reasoning develops a habit of mind, competency,
		and comfort in working with numerical data.

	1	C. 1 . '11 1
		Students will learn to reason and solve quantitative problems from a wide array of
		authentic contexts and everyday life situations,
		develop the ability to reason mathematically, and
		make and evaluate logical arguments supported
		by quantitative evidence.
		Students enrolled in this course are eligible to
		enroll for dual credit via the Parkside Access to
	242021	College Credit Program (PACC).
Advanced Placement	343031	Prerequisites: Any Algebra 2 course
Statistics	343032	Descriptions Advanced Discourant Statistics
1 credit		Description: Advanced Placement Statistics acquaints students with the major concepts and
		tools for collecting, analyzing, and drawing
		conclusions from data. Students are exposed to
		four broad conceptual themes: 1) exploring data,
		2) sampling and experimentation, 3) anticipating
		patters, and 4) statistical inference. Students work
		on projects involving the hands-on gathering and
		analysis of real-world data. Ideas and computa-
		tions presented in this course have immediate
		links and connections with actual events. The use
		of computers and graphic calculators allow
		students to focus deeply on the concepts involved
		in statistics. Students are strongly encouraged to
		successfully complete this class and take an
		Advanced Placement examination to potentially
		earn college credit.
Introduction to Data	344011	Prerequisites: Any Algebra 2 course
Science	344012	Description This course into the second of
1 credit		Description: This course introduces students to
		the main ideas in data science with real data, introducing statistical, computational, and
		graphical tools for reasoning about the world.
		Students will learn to be data explorers in project-
		based units through which they will develop their
		understanding of data analysis, sampling,
		correlation/causation, bias and uncertainty,
		probability, modeling with data, making and
		evaluating data-based arguments, the power of
	1	

Introduction to Data	344021	Prerequisites: Any Algebra 2 course
Science Honors	344022	Trerequisites. This ringeon 2 course
1 credit	344022	Description: This course introduces students to the main ideas in data science with real data, introducing statistical, computational, and graphical tools for reasoning about the world. Students will learn to be data explorers in project-based units through which they will develop their understanding of data analysis, sampling, correlation/causation, bias and uncertainty, probability, modeling with data, making and evaluating data-based arguments, the power
Dwagalaulus	351011	of data in society, and more!  Prerequisites: Any Algebra 2 course
Precalculus 1 credit	351011	Frerequisites. Ally Algebra 2 course
1 credit	331012	Description: Precalculus extends the mathematical concepts and skills studied in Algebra 2. In addition to an in-depth study of functions and their inverses, this course includes the study of complex number systems, vector quantities, matrices, and sequences and series. The Standards for Mathematical Practice are applied throughout to provide students with a mathematical experience that makes use of their ability to make sense of problem situations.
Advanced Placement	352031	Prerequisites: Any Algebra 2 course (Algebra
Precalculus 1 credit	352032	2/Trigonometry Honors strongly recommended)
		Description: Advanced Placement Precalculus fosters the development of a deep conceptual understanding of functions. In this course students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, social science, and data science. Students will apply mathematical tools in real-world modeling situations in preparation for using these tools in college-level calculus as well as the symbolic manipulation skills needed for future mathematics courses. This course prepares students for college-level calculus, including AP calculus and provides grounding for other mathematics and science courses.
Advanced Placement	353031	Prerequisites: Precalculus (351011 and 351012)
Calculus AB	353032	or Advanced Placement Precalculus (352031 and
1 credit		352032)

		Description: This course is equivalent to a first semester college calculus course. It follows the
		College Board Advanced Placement Calculus course outline. It includes:
		1. Functions,
		2. Use of graphs,
		3. Derivatives and their applications,
		4. Differentials,
		5. Limits,
		6. Integrals and their applications, and
		7. Differential equations.
		The course prepares students for second semester college courses. It is strongly recommended that students who successfully complete this class take the Advanced Placement Calculus examination in the spring, which could result in earning college credit.
Advanced Placement Calculus BC 2 credits	354031 354032 354033	Prerequisites: Precalculus (351011 and 351012) or Advanced Placement Precalculus (352031 and 352032)
Kanagha Unified School District	354034	Description: Advanced Placement Calculus BC is a full-year course in the calculus of a single variable. It follows the College Board Advanced Placement Calculus course outline. It includes functions, use of graphs, derivatives and their applications, differentials, limits, integrals and their applications, and differential equations. It also includes parametric, polar, and vector functions; techniques of antidifferentiations and polynomial approximations; and series. Students are strongly encouraged to successfully complete this class and take the Advanced Placement Exam to potentially earn college credit. Course content is designed to qualify the student for placement and credit in a course that is one course beyond that granted for Calculus AB at the college level.

## **SCIENCE**

## **REGISTRATION GUIDELINES**

Each student is required to complete three credits in science for high school graduation. Please follow the guidelines below.

Grade 9	One of the following is required:
	<ul> <li>Biology</li> <li>Biology Honors</li> <li>Equivalent course at choice and charter schools</li> </ul>
Grade 10	One of the following is recommended:
Grade 11	<ul> <li>Chemistry</li> <li>Chemistry Honors</li> <li>Matter and Energy</li> <li>Equivalent course at choice and charter schools</li> </ul> One of the following is recommended:
	<ul> <li>Conceptual Physics</li> <li>Advanced Placement Physics 1</li> <li>Earth Science</li> <li>Equivalent course at choice and charter schools</li> </ul>

A fourth credit in science is highly recommended for postsecondary career training or college readiness. There are many high-interest and advanced placement science courses offered for a fourth credit. Instruction in all science courses engages students in collaborative, inquiry-based investigations through questioning, modeling, analyzing data, and constructing explanations based on evidence.

OPTIONS FOR A FOURTH SCIENCE COURSE		
One Credit	One-Half Credit	
<ul> <li>Anatomy and Physiology Honors</li> </ul>	• Forensics	
Human Biology		
Astronomy		
Geology Honors		
• Ecology		

Two-Credit Advanced Placement Courses  • Advanced Placement Biology	<ul> <li>One-Credit Advanced Placement Courses</li> <li>Advanced Placement Physics 1</li> </ul>
<ul> <li>College Board-recommended prerequisites:</li> </ul>	<ul> <li>College Board-recommended prerequisites:</li> </ul>
<ul><li>Biology</li><li>Chemistry</li></ul>	<ul> <li>Geometry and concurrent enrollment in Algebra 2</li> </ul>
<ul> <li>Concurrent or previous enrollment in Advanced Placement Statistics</li> </ul>	Advanced Placement Physics 2
enhances the Advanced Placement Biology experience.	<ul> <li>College Board prerequisite:</li> </ul>
	<ul> <li>Advanced Placement Physics 1</li> </ul>
Advanced Placement Chemistry	Advanced Placement Physics C:     Mechanics
<ul> <li>College Board-recommended prerequisites:</li> </ul>	College Board recommendation:
<ul><li>Chemistry</li><li>Algebra 2</li></ul>	<ul> <li>Previous or concurrent enrollment in Advanced Placement Calculus BC</li> </ul>
	Advanced Placement Environmental Science
	<ul> <li>College Board-recommended prerequisites:</li> </ul>
	<ul><li>Biology</li><li>Chemistry</li><li>Algebra 1</li></ul>

All courses are described below. Course offerings may vary by school.

COURSES		
Lab Tech for Biomedical	411611	Prerequisites: None
Engineering	411612	
1 credit		Description: This course is designed to prepare students for laboratory and course work in the Project Lead the Way biomedical engineering series of courses offered at LakeView Technology Academy. Emphasis is placed on developing critical thinking skills, research skills,

		and laboratory techniques. Independent study
		projects and inquiry-based learning experiences
		are integral parts of the course requirements.
Biotechnology	411811	Prerequisites: None
1 credit	411812	
		Description: Biotechnology is a required course
		for all LakeView Technology Academy grade 9
		students. In Biotechnology students will develop understandings of key concepts related to the
		molecules of life, structures, and processes of
		organisms. They will use science and engineer-
		ing practices to study the inheritance and
		variation of traits and develop explanations
		related to the unity and diversity of life. The
		interactions, energy, and dynamics of ecosystems
		and the role of humans in ecosystems will also be
		explored. Concepts of biology will be explored
		with a focus on the technology used to enhance biological investigations.
Biotechnology Honors	411821	Prerequisites: None
1 credit	411822	Transmost Trans
		Description: Biotechnology is a required course
		for all LakeView Technology Academy grade 9
		students. Students with a particular interest in the
		subject can elect, with parent and teacher guid-
		ance, to enroll in Biotechnology Honors. In this course students will develop understandings of
		key concepts related to the molecules of life,
		structures, and processes of organisms. They will
		use science and engineering practices to study the
		inheritance and variation of traits and develop ex-
		planations related to the unity and diversity of
		life. The interactions, energy, and dynamics of
		ecosystems and the role of humans in ecosystems
		will also be explored. Concepts of biology will be studied with a focus on technology used to en-
		hance biological investigations. While all
		Biotechnology students will be expected and
		encouraged to use higher-level thinking skills,
		Biotechnology Honors students will demonstrate
		these skills on a regular basis. When completing
		coursework, Biotechnology Honors students may
		be given a different set of tasks to complete while studying the same topics as all other
		studying the same topics as all other Biotechnology students. Biotechnology Honors
		students are required to do supplementary
		projects, which may include a science fair project.

Diology	421011	Duanaguigitas: None
Biology 1 credit	421011	Prerequisites: None
1 Cicuit	421012	Description: Biology is a required course for all Kenosha Unified School District grade 9 students. Students at choice and charter schools may take an equivalent course. In Biology students will develop understandings of key concepts
		related to the molecules of life, structures, and processes of organisms. They will use science and engineering practices to study the inheritance and variation of traits and develop explanations related to the unity and diversity of life. The interactions, energy, and dynamics of ecosystems and the role of humans in ecosystems will also be explored.
Biology Honors	421021	Prerequisites: None
1 credit	421022	Tresequiament Tress
		Description: Biology is a required course for all
		Kenosha Unified School District grade 9
		students. Students at choice and charter schools
		may take an equivalent course. Students with a particular interest in the subject can elect, with
		parent and teacher guidance, to enroll in Biology
		Honors. In Biology Honors students will develop
		understandings of key concepts related to the
		molecules of life, structures, and processes of
		organisms. They will use science and engineering practices to study the inheritance and
		variation of traits and develop explanations
		related to the unity and diversity of life. The
		interactions, energy, and dynamics of ecosystems
		and the role of humans in ecosystems will also be
		explored. While all Biology students will be expected and encouraged to use higher-level
		thinking skills, Biology Honors students will
		demonstrate these skills on a regular basis. When
		completing coursework, Biology Honors students
		may be given a different set of tasks to complete
		while studying the same topics as all other Biology students.
Human Biology	422011	Prerequisites: Biology and Chemistry or Biology
1 credit	422012	and Matter and Energy
		Description: In this course students will focus on
		the cell, reproduction, development, and the body

		41 - 1 1 - C
		as the basis for the transfer of biological information from one generation to the next. The impact of genetics on our society will be studied.
		Note: Not open to students who have earned credit in Human Anatomy and Physiology
Forensic Science  1/2 credit	422210	Prerequisites: Biology and Chemistry or Biology and Matter and Energy
		Description: In this course students will see science through the eyes of a crime scene investigator. Students will collect and interpret evidence while learning numerous scientific strategies and skills.
Human Anatomy and	423221	Prerequisites: Biology and Chemistry
Physiology Honors	423222	Descriptions In Herman Ameter 181 11
1 credit		Description: In Human Anatomy and Physiology Honors, students explore the systems comprising the human body by emphasizing physiological mechanisms and a thorough understanding of human anatomy. An emphasis is placed on the interrelatedness of such systems as the skeletal, muscular, nervous, and circulatory. This course is recommended for those pursuing a career in the health science field. This course has a substantial laboratory component, including a fetal pig dissection.
Advanced Placement	424531	Prerequisites: A biology course and a chemistry
Biology 2 credits	424532 424533	course
	424534	Description: Advanced Placement Biology is an introductory college-level biology course equivalent to two semesters of college-level biology for biology majors. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions. Advanced Placement Biology includes an extensive laboratory program and is scheduled for one double class period every day for the entire school year. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit.

Chemistry	431011	Prerequisites: A biology course
1 credit	431012	gy
Chemistry Honors	431021	Description: In Chemistry, students will develop understandings of key concepts related to the structure of the atom, the periodic table, and chemical bonding. They will use science and engineering practices to study the states of matter, gas laws, acid and bases, and the energy of reactions. Students will be asked to apply their newly gained knowledge of chemical processes to their everyday lives and to Earth's systems.  Prerequisites: A biology course
1 credit	431022	
		Description: Students with a particular interest in the topics of chemistry can elect, with parent and teacher guidance, to enroll in Chemistry Honors. Students will develop understandings of key concepts related to the structure of the atom, the periodic table, and chemical bonding. They will use science and engineering practices to study the states of matter, gas laws, acid and bases, and the energy of reactions. Students will be asked to apply their newly gained knowledge of chemical processes to their everyday lives and to Earth's systems. While all chemistry students will be encouraged to use higher-level thinking skills, students in Chemistry Honors will demonstrate these skills on a regular basis. When completing coursework, Chemistry Honors students may be given a different set of tasks to complete while students.
Biotechnology 10	431811	students.  Prerequisites: A biology course
1 credit	431812	1 6,
		Description: Biotechnology 10 is offered at Harborside Academy. Students in this course will develop understandings of key concepts related to the molecules of life, structures, and processes of organisms. Specifically, students will use science and engineering practices to investigate case studies related to eugenics, the history of corn, cell structures and functions, DNA, pathogens, and bioethics. The interactions, energy, and dynamics of ecosystems and the role of humans in ecosystems will also be explored. Concepts of

		biology will be explored in more depth with a
		focus on the technology used to enhance
		biological investigations.
Matter and Energy 1 credit	432911 432912	Prerequisites: A biology course
		Description: In this course students will examine the relationships between energy and matter through investigation, experimentation, and application. Topics will include structure and properties of matter, force and motion, energy transformation, and science and engineering practices. This course is designed especially for students who need more experience with science concepts and core ideas before moving on to their third science courses.
		Note: Not open to students who have earned credit in Chemistry, Chemistry Honors, Conceptual Physics, or Advanced Placement Physics 1
Advanced Placement	434531	Prerequisites: Chemistry course and Algebra 2
Chemistry	434532	
2 credits	434533 434534	Description: Advanced Placement Chemistry provides students with a college-level foundation to support future advanced coursework in chemistry. The course is designed to enable students to view chemical phenomena through a variety of conceptual lenses and at various levels: macroscopic, microscopic, submicroscopic, and symbolic. Throughout the course students learn to apply a variety of science practices, such as describing, interpreting, and analyzing models; designing experiments and analyzing data; creating representations of data and chemical systems; using mathematical routines to solve problems; and providing evidence and reasoning to justify a scientific claim. Advanced Placement Chemistry includes an extensive laboratory program and is scheduled for one double class period every day for the entire school year. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit.
<b>Conceptual Physics</b>	441011	Prerequisites: A biology course and a chemistry
1 credit	441012	course

		Description: In Conceptual Physics, students will focus on concepts and applications of physics. Students will gain an understanding of the laws of physics that surround them by studying the key concepts related to motion, force, energy, matter, sound, electricity, magnetism, light, and the atom. Coursework will include laboratory investigations and the use of basic algebra skills.  Note: Not open to students who have earned credit in Advanced Placement Physics 1
Advanced Placement Physics 1 1 credit	444531 444532	Prerequisites: A biology course and a chemistry course
		Description: Advanced Placement Physics 1 is an algebra-based introductory college-level physics course. Students cultivate their understanding of physics by developing models of physical phenomena through inquiry-based investigations. Students will practice reasoning skills used by physicists by discussing and debating with peers the physical phenomena investigated in class as well as by designing and conducting inquiry-based laboratory investigations to solve problems through first-hand observations, data collection, analysis, and interpretation. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit.
Advanced Placement Physics 2	444533 444534	Prerequisites: Advanced Placement Physics 1 and concurrent or prior enrollment in Precalculus
1 credit		Description: Advanced Placement Physics 2 is equivalent to the second course in an introductory college course sequence in algebra-based physics. By confronting complex physical situations or scenarios, the course is designed to enable students to develop the ability to reason about physical phenomena using important science practices, such as explaining relationships, applying and justifying the use of mathematical routines, designing experiments, analyzing data, and making connections across multiple topics within the course. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit.

Advanced Placement Physics C: Mechanics 1 credit	444631 444632	Prerequisites: A physics course and concurrent enrollment in Advanced Placement Calculus  Description: Advanced Placement Physics C: Mechanics is a calculus-based introductory college-level physics course especially appropriate for students planning to specialize or major in one of the physical sciences or engineering. Students cultivate their understanding of physics through classroom study, in-class activity, and hands-on inquiry-based laboratory work as they explore concepts like change, force interactions, fields, and conservation. Students are strongly encouraged to take the Advanced Placement Examination with the
Geology Honors 1 credit	451021 451022	Prerequisites: A biology course, a chemistry course, and a physics course or concurrent enrollment in a physics course  Description: Maps and models will aid students in understanding the evolution of the Earth. The study of minerals, processes of the rock cycle, geologic time and plate tectonics (which includes the study of volcanoes, earthquakes, and the formation of mountains), will provide a foundation for further study of geosciences. Various careers in geology will be investigated. Students with a particular interest in the topics of geology can elect, with parent and teacher guidance, to enroll in Geology Honors. While all Geology students will be encouraged to use higher-level thinking skills, Geology Honors students will demonstrate these skills on a regular basis. When completing coursework, Geology Honors students may be given a different set of tasks to complete while studying the same topics as all other Geology students.
Earth Science 1 credit	453511 453512	Prerequisites: Biology and Matter and Energy  Description: Students will develop understandings of several key concepts related to Earth's place in the universe and Earth's systems. The key concepts are broken into units and lessons that cover the universe and its stars, Earth and the solar system, the history of planet Earth, Earth materials, plate tectonics, the roles of water

		on surface processes, weather and climate, biogeology, natural resources, natural hazards, global change, and the interaction of humans with Earth's systems. Students will be expected to demonstrate proficiency in science and engineering practices, such as developing and using models, planning and carrying out investigations, analyzing and interpreting data, and engaging in argument. Instruction also includes connections to other science content areas and students' lived experiences through the concepts of cause and effect, energy and matter, structure and function, stability and change, and systems.
Astronomy	461011	Note: Not open to students who have earned credit in a chemistry course or a physics course Prerequisites: A biology course, a chemistry
1 credit	461012	course, and a physics course or concurrent enrollment in a physics course
	472111	Description: Students will study the universe as they cover the following topics: history of astronomy, gravity and motion, planets, stars, galaxies, and the structure of the universe. This course places an emphasis on how astronomers gather information about distant objects without leaving the earth.
Ecology 1 credit	472111 472112	Prerequisites: A biology course, a chemistry course, and a physics course or concurrent enrollment in a physics course
		Description: In Ecology students study how living things interact with each other and their nonliving environment. Students will study the web of life and how each strand interacts with the other and how he/she fits into the web. The interactions of science, technology, and society with the environment will also be studied.
Advanced Placement	474731	Prerequisites: A biology course, a chemistry
Environmental Science 1 credit	474732	course, and a physics course or concurrent enrollment in a physics course
		Description: The Advanced Placement Environmental Science course is the equivalent of an introductory college course in environ-

		mental science. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography. Students will analyze environmental concepts and processes in order to propose and justify solutions to environmental problems. The course teaches students how to apply science to the solutions of important social problems. It also provides opportunities to practice applying scientific methods to practical real-life problems. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit.
Principles of Biomedical Science Honors	481021 481022	Prerequisites: Biotechnology and Algebra 2
1 credit		Description: Students explore the concepts of human medicine and are introduced to research processes and to bioinformatics. Hands-on projects enable students to investigate human body systems and various health conditions, including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. Over the length of the course, students work together to determine the factors that led to the death of a fictional person. After pinpointing those factors, the students investigate lifestyle choices and medical treatments that might have prolonged the person's life. The key biological concepts embedded in the curriculum include homeostasis, metabolism, inheritance of traits, feedback systems, and defense against disease. Where appropriate, engineering principles are also incorporated into the curriculum. These include the design process, feedback loops, fluid dynamics, and the relationship of structure to function.
Human Body Systems Honors	482021 482022	Prerequisites: Principles of Biomedical Science Honors and Algebra 2
1 credit		-
Kenosha Unified School District		Description: Students examine the process, structures, and interactions of the human body systems to learn how they work together to maintain homeostasis (internal balance) and good health. Using real-world cases, students take the role of biomedical professionals and work together to solve medical mysteries. Hands-on

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		projects include designing experiments; investigating the structures and function of body systems; and using data acquisition software to monitor body functions such as muscle movement, reflex, voluntary actions, and respiratory operation. Important concepts covered in the course are communication, transport of substances, locomotion, metabolic processes, defense, and protection.
<b>Medical</b>	483021	Prerequisites: Human Body Systems Honors
<b>Interventions Honors</b>	483022	
1 credit		Description: Students investigate the variety of
		medical interventions involved in prevention, diagnosis, and treatment of disease as they fol-
		low the lives of a fictitious family. Students will
		be exposed to a wide range of interventions re-
		lated to immunology, surgery, genetics,
		pharmacology, medical devices, and diagnostics.
		Students explore how to prevent, diagnose, and
		treat infection; how to screen and evaluate the
		code in human DNA; diagnose and treat cancer;
		and how to prevail when the organs of the body
		begin to fail. Preventative measures are
		emphasized throughout the course as well as the
		important roles scientific thinking and
		engineering design play in the development of
		interventions of the future.
<b>Biomedical Innovation</b>	484021	Prerequisites: Medical Interventions Honors
<u>Honors</u>	484022	
1 credit		Description: Students design innovative
		solutions for the health challenges of the twenty-
		first century. They work through progressively
		challenging open-ended problems, addressing
		topics such as clinical medicine, physiology,
		biomedical engineering, and public health.

#### **SOCIAL STUDIES**

## **REGISTRATION GUIDELINES**

The student graduation requirement for social studies is to successfully complete three credits. Required within the three credits are one credit U.S. History, one credit World History, one-half credit Government and Politics, and one-half credit Behavioral Science.

Students selecting the Advanced Placement U.S. Government and Politics option will be required to satisfactorily complete the entire course. Failure to do so will require students to take either U.S. Government and Politics or U.S. Government and Politics Honors in order to satisfy the requirement.

Note: Students who complete one-half credit of Economics/Economics Honors or complete one credit of Advanced Placement Microeconomics or Macroeconomics may apply the credit to one-half credit Consumer Education requirement.

GRADE LEVEL	HISTORY	GOVERNMENT AND POLITICS	BEHAVIORAL SCIENCE	ECONOMICS	ELECTIVES
9			One-half credit of behavioral science requirement or  Electives		Electives
			<ul> <li>Ethnic Studies</li> <li>Ethnic Studies</li> <li>Honors</li> </ul>		Science Seminar
10	World History or World History Honors		One-half credit of behavioral science requirement or		Electives     Global     Studies
	Advanced     Placement     World History		<ul><li>Electives</li><li>Ethnic Studies</li><li>Ethnic Studies</li><li>Honors</li></ul>		<ul> <li>Global Studies Honors</li> <li>AP Human Geography</li> </ul>
11/12	<ul> <li>U.S. History</li> <li>Advanced         Placement         United States         History     </li> </ul>	<ul> <li>U.S. Government and Politics or U.S. Government and Politics Honors</li> <li>Advanced Placement</li> </ul>	One-half credit behavioral science requirement or	Elective or consumer education requirement  • Economics or Economics Honors	Electives     Global     Studies     Global     Studies
	Advanced     Placement     World History	United States Government and Politics	Psychology or Psychology Honors      Advanced Placement Psychology	<ul> <li>Advanced         Placement         Macroeconomics</li> <li>Advanced         Placement         Microeconomics</li> </ul>	Honors  • AP Human Geography

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GRADE LEVEL	HISTORY	GOVERNMENT AND POLITICS	BEHAVIORAL SCIENCE	ECONOMICS	ELECTIVES
			<ul> <li>Sociology or Sociology Honors</li> </ul>		
			• Ethnic Studies		
			<ul> <li>Ethnic Studies Honors</li> </ul>		

	CC	DURSES
U.S. History	220111	Prerequisites: None
1 credit	220112	-
		Description: Students will survey the development of U.S. history as a country from Reconstruction through the present time. The highlights of the course are the studying of Reconstruction, Western Expansion, the Gilded Age, the Progressive Era, the Roaring '20s, and the Great Depression as well as surveying the world wars, Korean Conflict, and Vietnam. The
		turmoil of the 1960s will be studied as well as the remaining decades until the present time. This
		course contains panel discussions and seminars
		along with simulations. There is an outside reading requirement, and the writing skills of the
		students will be developed.
U.S. History Honors 1 credit	220121 220122	Prerequisites: None
		Description: U.S. History Honors is an accelerated examination of America from Reconstruction to the present. The course focuses on the geographical, intellectual, political, economic, and cultural development of the American people, its places, and U.S. events in the context of world politics. Students will be required to complete work in class as well as outside of class to be successful. Honors credit will be granted based on a student's ability to interpret primary sources, comprehend historical information, and analyze events of the past. Units of study will be chosen from the following list:  • 1865-1900—The Gilded Age, Industrialism, Urbanization, and the End of the Frontier;
		• 1890-1914—Imperialism and the Progressive Era;

		• 1914-29—World War I and the Roaring Twenties;
		• 1929-45—The Great Depression and World War II;
		• 1945-60—The Cold War Era;
		• 1960-90—The Vietnam War, the Civil Rights Movement, Watergate, and the administra- tions or Ford; Carter; Reagan; and Bush.
Advanced Placement	220131 220132	Prerequisites: None
1 credit		Description: Advanced Placement U.S. History is a college-level history course that requires students to develop mastery over the assigned content while developing the ability to practice the skills of a historian. Students will learn to develop their critical thinking skills by analyzing and interpreting both primary documents and writings by respected historians. Through reading, writing, discussions, and document analysis, students in Advanced Placement U.S. History build an understanding of the economic, political, and social changes that have occurred in America since Columbus. Students learn how decisions and events of the past continue to have profound effects on the world today and how knowledge of the causes behind past events can influence future decisions. Students put their factual knowledge to work by weighing evidence and interpreting problems presented by historians. Extensive work outside of the classroom will be necessary for success. Students are strongly encouraged to successfully complete this class and take the Advanced Placement Examination to potentially earn college credit.
World History	230111	Prerequisites: None
1 credit	230112	
		Description: This course is a study of modern world history, including the foundation of world religions and beliefs, intellectual revolutions, violent revolutions, industrial revolution,

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		nationalism/imperialism through the world wars, cold war, the quest of countries seeking independence, and changes in current global patterns.
World History Honors 1 credit	230121 230122	Prerequisites: None
		Description: This course is a study of modern world history, including the foundation of world religions and beliefs, intellectual revolutions, violent revolutions, industrial revolution, nationalism/imperialism through the world wars, cold war, the quest of countries seeking independence, and changes in current global patterns. World History Honors includes an emphasis on writing, research, and presentations.
Advanced Placement World History	230131 230132	Prerequisites: None
1 credit		Placement World History course is to develop greater understanding of the evolution of global processes and contacts in interaction with different types of human societies. This understanding is advanced through a combination of selective factual knowledge and appropriate analytical skills. The course highlights the nature of changes in international frameworks and their causes and consequences as well as comparisons among major societies. It emphasizes relevant factual knowledge used in conjunction with leading interpretive issues and types of historical evidence. The course builds on an understanding of cultural, institutional, and technological precedents that—along with geography—set the human stage. Periodization, primarily, the past thousand years of global experience to the present day, forms an organizing principle for dealing with change and continuity throughout the course. Specific themes provide further organization to the course along with consistent attention to contacts among societies that form the core of world history as a field of study. Students are strongly encouraged to successfully complete this class and take the Advanced Placement Examination to potentially earn college credit.

U.S. Government and	240110	Prerequisites: None
Politics		1
½ credit		Description: This course is a survey of the U.S.
		Government structure, systems, and political
		processes focusing on constitutional structures
		and foundations. Content will include factors that
		influence U.S. Government. This course pre-
		pares students to become responsible/aware
		members of American society.
<b>Government and Politics</b>	240120	Prerequisites: None
<b>Honors</b>		
½ credit		Description: This course is a study of the U.S.
		Government system and political processes
		focusing on constitutional structures and
		foundations. Content will include factors that
		influence U.S. Government. Honors will
		emphasize reading, writing, research, and
		presentations. Students will use critical thinking
		skills to explain trends, identify and question
		different points of view, and assess major ideas
		and how such ideas have worked in practice.
<b>Advanced Placement</b>	240131	Prerequisites: None
<b>United States Government</b>	240132	
and Politics		Description: This one-credit Advanced
1 credit		Placement course in U.S. Government and poli-
		Placement course in U.S. Government and politics will give students an analytical perspective on
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires fa-
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups,
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics.
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students completing this course will know
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students completing this course will know important facts, concepts, and theories pertaining
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students completing this course will know important facts, concepts, and theories pertaining to U.S. Government and politics; understand
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students completing this course will know important facts, concepts, and theories pertaining to U.S. Government and politics; understand typical patterns of political processes and
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students completing this course will know important facts, concepts, and theories pertaining to U.S. Government and politics; understand typical patterns of political processes and behavior and their consequences; and be able to
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students completing this course will know important facts, concepts, and theories pertaining to U.S. Government and politics; understand typical patterns of political processes and behavior and their consequences; and be able to analyze and interpret data relevant to U.S.
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students completing this course will know important facts, concepts, and theories pertaining to U.S. Government and politics; understand typical patterns of political processes and behavior and their consequences; and be able to analyze and interpret data relevant to U.S. Government and politics. Students are strongly
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students completing this course will know important facts, concepts, and theories pertaining to U.S. Government and politics; understand typical patterns of political processes and behavior and their consequences; and be able to analyze and interpret data relevant to U.S. Government and politics. Students are strongly encouraged to successfully complete this class
		Placement course in U.S. Government and politics will give students an analytical perspective on government and politics in the United States. This course includes both the study of general concepts used to interpret U.S. politics and the analysis of specific examples. It also requires familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. Students completing this course will know important facts, concepts, and theories pertaining to U.S. Government and politics; understand typical patterns of political processes and behavior and their consequences; and be able to analyze and interpret data relevant to U.S. Government and politics. Students are strongly

Sociology	250110	Prerequisites: None
½ credit		
		Description: During this course of study, students will develop an understanding and be able to ap-
		ply sociological concepts and perspectives
		concerning human groups that include attention
		to socialization, culture, organization, stratification, and societies. Consideration of
		fundamental concepts and research methodology
		will also be given.
Sociology Honors	250120	Prerequisites: None
½ credit		
		Description: This Sociology Honors course will
		emphasize in-depth, independent reading, writing, and research as students develop an un-
		derstanding and apply sociological concepts and
		perspectives concerning human groups that in-
		clude attention to socialization, culture,
E41	250510	organization, stratification, and societies.
Ethnic Studies ½ credit	250510	Prerequisites: None
72 Cledit		Description: This course is offered to students
		interested in studying American ethnic history
		and contemporary social issues about Native
		Americans, African Americans, Hispanic Americans, Asian Americans, and Muslim and
		Arab Americans. The role of gender will be
		considered in the study of these groups. Stu-dents
		will become familiar with the background,
		culture, contributions, and achievements of these
		groups. Students will investigate the prejudice,
		discrimination, and oppression that each group has endured and efforts to address this treatment.
		Students will discuss and debate current topics,
		including, but not limited to, ethnic stereotypes,
		affirmative action, immigration, racial profiling,
		hate crimes, and sexism. Students will gain a new
		perspective of themselves and others and discuss issues that are relevant to the ever-changing
		world today.
Ethnic Studies Honors  1/2 credit	250520	Prerequisites: None
		Description: This course is offered to students
		interested in studying American ethnic history
		and contemporary social issues about Native

		Americans, African Americans, Hispanic Americans, Asian Americans, and Muslim and Arab Americans. The role of gender will be considered in the study of these groups. Students will become familiar with the background, culture, contributions, and achievements of these groups. Students will investigate the prejudice, discrimination, and oppression that each group has endured and efforts to address this treatment. Students will discuss and debate current topics, including, but not limited to, ethnic stereotypes, affirmative action, immigration, racial profiling, hate crimes, and sexism. Students will gain a new perspective of themselves and others and discuss issues that are relevant to the ever-changing world today. Honors includes an emphasis on writing, researching, and presentations.
Psychology ½ credit	260110	Prerequisites: None
½ credit		Description: This course introduces students to
		the scientific study of behavior and mental processes of humans and other animals. Topics that may be explored include research methods, biological basis of behavior, psychological disorders and their treatments, sensation and perception, states of consciousness, memory, thinking, language, learning, intelligence, motivation, emotion, personality, human development, and social psychology.
Psychology Honors ½ credit	260120	Prerequisites: None
		Description: The Psychology Honors course will emphasize in-depth, independent reading, writing, and research as students are introduced to the scientific study of behavior and mental processes of humans and other animals. Topics that may be explored include research methods, biological basis of behavior, psychological disorders and their treatments, sensation and perception, states of consciousness, memory, thinking, language, learning, intelligence, motivation and emotion, personality, human development, and social psychology.

Advanced GATEWY	260131	Prerequisites: None
Flormon Coulous Serving Southeastern Wilcomen since 1917		Trerequisites. None
Placement Psychology	260132	
1 credit		Description: Advanced Placement Psychology is a college-level course that introduces students to the scientific study of behavior and mental processes of humans and other animals. Topics that may be explored include research methods, biological basis of behavior, psychological disorders and their treatments, sensation and perception, states of consciousness, memory, cognition, language, learning, intelligence, motivation and emotion, personality, human development, and social psychology. Students are strongly encouraged to successfully complete this
		class and take the Advanced Placement
	250110	Examination to potentially earn college credit.
<b>Economics</b>	270110	Prerequisites: None
½ credit		
Economics Honors	270120	Description: This course emphasizes the principles and theories of micro and macroeconomics. Students will obtain an understanding of the basic concepts of economics, analyze the determinants involving supply and demand, assess the nation's economic growth and performance and the impact the business cycle has on growth and performance. This course also compares economic theories relating to fiscal monetary policy and identifies the factors leading to globalization and the need for international trade. This course may be taken for consumer education graduation credit.  Prerequisites: None
½ credit	270120	Trerequisites. Twone
72 Credit		Description: The Economics Honors course emphasizes the principles and theories of micro and macroeconomics. Students will obtain an understanding of the basic concepts of economics, analyze the determinants involving supply and demand, assess the nation's economic growth and performance and the impact the business cycle has on growth and performance. This course also compares economic theories relating to fiscal monetary policy and identifies the factors leading to globalization and the need for international trade. Honors includes an emphasis on writing,

		researching, and presentations. This course may be taken for consumer education graduation
		credit.
Advanced	270131	Prerequisites: None
Placement Macroeconomics	270132	1
1 credit	270132	Description: The purpose of the Advanced Placement macroeconomics college-level course is to give students a thorough understanding of macroeconomics. Students should consider selecting this course when taking Advanced Placement Government and Politics. In addition to an introduction in basic economic concepts, the following units will be included:
		Measurement of economic performance;
		National income and price determination;
		Financial sectors;
		<ul> <li>Inflation, unemployment, and stabilization policies;</li> </ul>
		Economic growth and productivity; and
		International trade and finance.
	270221	Students are strongly encouraged to successfully complete this class and take the Advanced Placement Examination to potentially earn college credit. It is suggested that students not take both Advanced Placement macroeconomics and microeconomics courses in the same year.
Advanced	270231	Prerequisites: None
Placement Microeconomics 1 credit	270232	Description: The purpose of the Advanced Placement microeconomics college-level course is to give students a thorough understanding of microeconomics. In addition to an introduction, are basic economic concepts. The following units will be included:

		1. Nature and function of markets,
		1. Ivalure and function of markets,
		2. Factor markets,
		3. Market failure and the role of government.
Advanced Placement Human Geography	280231 280232	Students are strongly encouraged to successfully complete this class and take the Advanced Placement Examination to potentially earn college credit. It is suggested that students not take both Advanced Placement macroeconomics and microeconomics courses in the same year.  Prerequisites: None
½ credit	200232	Description: The purpose of the Advanced Placement Human Geography course is to introduce students to the systematic study of patterns and processes that have shaped understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.
Global Studies ½ credit	280410	Prerequisites: None
		Description: This course will give students a greater understanding of those who live as our neighbors near and far. There will be an emphasis on human and physical geography to the extent that students will have a greater understanding of people, places, and environments past and present. From a regional and topical approach, students will explore contemporary global issues and world events. Students will develop their skills in comprehending written materials, debating/defending a position, and analyzing and interpreting various forms of data (maps, charts, graphs, photos, etc.).
Global Studies—Honors 1/2 credit	280420	Prerequisites: None

Description: This course will give students a greater understanding of those who live as our neighbors near and far. There will be an emphasis on human and physical geography to the extent that students will have a greater understanding of people, places, and environments past and present. From a regional and topical approach, students will explore contemporary global issues and world events. Students will develop their skills in comprehending written materials, debating/defending a position, and analyzing and interpreting various forms of data (maps, charts, graphs, photos, etc.). Honors includes an emphasis on writing, researching, and presentations.

# WORLD LANGUAGE

	COU	RSES
Introductory French 1	711112	Prerequisites: None
1 credit	711114	
		Description: This is an introductory course in
		the target language and culture. This course
		stresses basic communication skills through
		daily conversation and vocabulary building.
		Students learn to ask and answer questions and
		describe people, places, and things in the target
		language. Students are exposed to the culture
		of related countries. This course provides a
		solid background for any student wanting to
Intormadiata Evanah 2	712222	advance to the next level.
Intermediate French 2 Honors	712224	Prerequisites: Introductory French 1 (711112 and 711114)
1 credit	/12224	and /1111+)
refeare		Description: This course continues the
		development of communicative skills with an
		emphasis in developing reading, writing, list-
		ening, and speaking skills through an applied
		practical use of the target language. Students
		will broaden knowledge of products, perspec-
		tives, and practices of other cultures. This
		course provides a solid foundation for any
		student wanting to advance to the next level.
Advanced French 3 Honors	713322	Prerequisites: Intermediate French 2 Honors
1 credit	713324	(712222 and 712224)
		Description All consts of effective
		Description: All aspects of effective communication are practiced at this level with
		a strong emphasis on using authentic materials
		from the target country to build literacy skills
		in the target language. Students demonstrate
		extemporaneous communication on complex
		topics. Students apply critical thinking skills
		during analysis and evaluation of current
		events from target countries. This course
		provides a solid foundation for any student
		wanting to advance to the next level.

Advanced Placement French Language and	714422 714424	Prerequisites: Advanced French 3 Honors (713322 or 713324)
Culture 1 credit		Description: Students continue to develop interpersonal, interpretive, and presentational modes of communication in the target language. Students acquire information through authentic sources in the target language. Students apply knowledge of cultural perspectives from target countries. This course is for students who plan to take advanced courses after high school and emphasizes the skills necessary for the Advanced Placement exam.
Introductory Spanish 1	771112	Prerequisites: None
1 credit	771114	Description: This is an introductory course in the target language and culture. This course stresses basic communication skills by developing listening, speaking, reading, and writing skills through daily conversation and vocabulary building. Students learn to ask and answer questions and describe people, places, and things in the target language. Students are exposed to the culture of related countries. This course provides a solid background for any student wanting to advance to the next level.
Spanish 1 1 credit	771112E 771114E	Prerequisites: None
		Description: Spanish 1 gives students an introduction to the basics of the Spanish Language and the Spanish-speaking world. This two-semester course aligns with the national standards of the American Council on the Teaching of Foreign Languages (ACTFL), which dictate a pedagogical method that focuses on successful communication through speaking, listening, reading, and writing. Course unit topics include the alphabet and numbers; greetings; introductions; the calendar (days, months, and seasons); weather; time; colors; familiar objects and places; family; food; pastimes; and school objects and routine. Course strategies include warm-up activities, vocabulary study, reading threaded discussions, multimedia presentations, self-checks, practice activities and games, oral and written assignments, projects and quizzes.

Intermediate Spanish 2 1 credit	772212 772214	Prerequisites: Introductory Spanish 1 (771112 and 771114)
Spanish 2	7722125	Description: This course continues the development of communicative skills with an emphasis in developing reading, writing, listening, and speaking skills through an applied, practical use of the target language. Students will broaden knowledge of products, perspectives, and practices of other cultures. This course provides a solid foundation for any student wanting to advance to the next level.
Spanish 2 1 credit	772212E 772214E	Prerequisites: Spanish 1
		Description: Students receive additional grounding in grammar and vocabulary in this two-semester course. Instructional material encourages students to build conversational and reading skills to cover many common situations in daily life. Like Spanish 1, this follow-up course adheres to the standards of the American Council of the Teaching of Foreign Languages (ACTFL). Learning activities in each unit are focused on a specific theme. The units for both semesters cover a broad range of useful everyday subjects, including daily routine, animals, entertainment, body parts, rooms, furniture, shopping, clothing, meals, sports and recreation, and transportation. Students must successfully complete Spanish 1 in order to enroll in this course.
Intermediate Spanish 2	772222 772224	Prerequisites: Introductory Spanish 1 (771112
Honors 1 credit	112224	and 771114)
		Description: This course continues the development of communicative skills with an emphasis in developing reading, writing, listening, and speaking skills through an applied practical use of the target language. Students will broaden knowledge of products, perspectives, and practices of other cultures. This course provides a solid foundation for any student wanting to advance to the next level.

Spanish 2 Honors	772222E	Prerequisites: Spanish 1
1 credit	772224E	Trerequisites. Spainish 1
1 Credit	//2224E	Description: Students receive additional grounding in grammar and vocabulary in this two-semester course. Instructional material encourages students to build conversational and reading skills to cover many common situations in daily life. Like Spanish 1, this follow-up course adheres to the standards of the American Council of the Teaching of Foreign Languages (ACTFL). Learning activities in each unit are focused on a specific theme. The units for both semesters cover a broad range of useful everyday subjects, including daily routine, animals, entertainment, body parts, rooms, furniture, shopping, clothing, meals, sports and recreation, and transportation. Students must successfully complete Spanish 1 in order to enroll in this course.
Advanced Spanish 3	773312	Prerequisites: Intermediate Spanish 2 (772212
1 credit	773314	and 772214)
		Description: All aspects of effective communication are practiced at this level with a strong emphasis on using authentic materials from the target country to build literacy skills in the target language. Students demonstrate extemporaneous communication on complex topics. Students apply critical thinking skills during analysis and evaluation of current events from target countries. This course provides a solid foundation for any student wanting to advance to the next level.
Spanish 3 1 credit	773312E 773314E	Prerequisites: Spanish 2
1 Clouit	7733141	Description: This course builds on the grammatical concepts and vocabulary that students mastered while completing the Spanish I and 2 courses. Spanish 3 fully aligns with national ACTFL standards. Students learn increasingly complex grammatical constructions, such as present, imperfect, perfect, and future tenses; reflexive and modal verbs; prepositions; conjunctions; relative pronouns; and adjective endings. Unit themes in this two-semester course include chores, directions,

		f-1: f-4 1 1
		feelings, future plans and travel, geography,
		countries and nationalities, health, household items, measurements, occupations, and
		items, measurements, occupations, and personal history. Unit activities blend different
		1 = -
10 112	772222	forms of communication and culture.
Advanced Spanish 3	773322	Prerequisites: Intermediate Spanish 2 Honors
Honors	773324	(772212 and 772214)
1 credit		
		Description: All aspects of effective
		communication are practiced at this level with
		a strong emphasis on using authentic materials
		from the target country to build literacy skills
		in the target language. Students demonstrate
		extemporaneous communication on complex
		topics. Students apply critical thinking skills
		during analysis and evaluation of current
		events from target countries. This course
		provides a solid foundation for any student
		wanting to advance to the next level.
Spanish 3 Honors	773322E	Prerequisites: Spanish 2
1 credit	773324E	
		Description: This course builds on the
		grammatical concepts and vocabulary that
		students mastered while completing the
		Spanish I and 2 courses. Spanish 3 fully aligns
		with national ACTFL standards. Students learn
		increasingly complex grammatical con-
		structions, such as present, imperfect, perfect,
		and future tenses; reflexive and modal verbs;
		prepositions; conjunctions; relative pronouns;
		and adjective endings. Unit themes in this two-
		semester course include chores, directions,
		feelings, future plans and travel, geography,
		countries and nationalities, health, household
		items, measurements, occupations, and per-
		sonal history. Unit activities blend different
A dropped Dlassesset	774422	forms of communication and culture.
Advanced Placement	774422	Prerequisites: Advanced Spanish 3 (773312
Spanish Language and	774424	and 773314)
Culture 1 credit		Description: Students continue to develop
1 Cledit		Description: Students continue to develop
		interpersonal, interpretive, and presentational modes of communication in the target lan-
		_
		guage. Students acquire information through authentic sources in the target language.
		Students apply knowledge of cultural
Kenosha Unified School District	1	perspectives from target countries. This course

		is for students who plan to take advanced courses after high school and emphasizes the skills necessary for the Advanced Placement exam.
Advanced Placement	774422E	Prerequisites: Spanish 3
Spanish Language and	774424E	1
Culture 1 credit		Description: Advanced Placement Spanish students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language and then apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a collegelevel language course, Advanced Placement Spanish prepares students for the Advanced Placement Exam and for further study of Spanish Language, culture, or literature.
Advanced Placement Spanish	774426 774428	Prerequisites: Advanced Placement Spanish Language and Culture or Spanish 3
Literature ½ credit		Description: Advanced Placement Spanish Literature is an advanced level survey course of literature written in Spanish. Students continue to develop their interpretive, interpersonal, and presentational skills in Spanish language as well as critical reading and analytical writing as they explore short stories, novels, plays, essays, and poetry from Spain, Latin America, and U.S. Hispanic authors along with other nonrequired texts.  Bradford High School only
<b>Culture and</b>	776622	Prerequisites: None
<b>Civilization Honors</b>	776624	
1 credit		Description: Although all aspects of effective
		communication are practiced at this level, the
		emphasis is on speaking and reading. Using
		current magazines, newspapers, films, and lit-
		erature, students refine and review skills
		learned in previous courses while studying
		high interest materials which employ an
		authentic, contemporary vocabulary. To
		further develop skills this course reviews
		grammar points deemed the most troublesome.
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		The course enhances those skills necessary in upper level classes. The techniques learned in this class enable students to take advanced courses after high school and increase their fluency in daily and job-related settings.
Spanish for Spanish Speakers I 1 credit	781112 781114	Prerequisites: Oral fluency in Spanish  Description: This course is designed for students who speak Spanish as a home or heritage language. Students will broaden their linguistic repertoire of Spanish by focusing on reading and writing skills and developing an awareness and understanding of Hispanic linguistic repertoire of Spanish by focusing on reading and writing skills and developing an awareness and understanding of Hispanic cultures.
Spanish for Spanish Speakers II 1 credit	782112 782114	Prerequisites: A student planning on taking this course should either be a native Spanish speaker at an advanced level or have completed Spanish for Spanish Speakers I. The course will be available for students in ninth through twelfth grade.  Description: This course is designed for students who speak Spanish as a home or heritage language at an advanced level. Students will continue to broaden their linguistic repertoire of Spanish by focusing on reading and writing skills and developing awareness and understanding of Hispanic linguistic repertoire of Spanish by focusing on reading and advanced writing skills and developing awareness and understanding of Hispanic cultures.

INDIAN TRAIL
ACADEMY
ONLY
COURSES

# **CAREER AND TECHNICAL EDUCATION**

### **BUSINESS AND INFORMATION TECHNOLOGY**

	COU	RSES
The Millionaire's Club	811010	Prerequisites: World of Business
½ credit		
		Description: This course allows students to engage in an examination of securities, markets, investment opportunities, and techniques for individuals. Topics include stocks, bonds, options, mutual funds, insurance, real estate, and portfolio management. This course will use online trading software to emphasize realworld investment situations for student analysis and decision-making strategies.
Law & Ouder in Business	911750	Indian Trail Business Academy only
Law & Order in Business ½ credit  Einancial Literacy	811750	Prerequisites: World of Business  Description: This course will provide an indepth view into the legal aspects of the business field. Students will gain in-depth understanding of the law that will elevate knowledge for students planning to pursue a career in business after high school. This course will focus on key concepts of the legal system as it relates to business, including: tort law, contract law, agency and employment, law, cyber law, and e-commerce. Students will delve into law in the news, how court systems work, and key court cases.  Indian Trail Academy only
Financial Literacy 1 credit	812111 812112	Prerequisites: None  Description: Gain in-depth knowledge and understanding of key financial literacy topics, including savings, investing, payroll, financial statements, banking, and more. Protect yourself and your financial future by learning about credit, taxes, insurance, loans, budgeting, and much more. This course meets the consumer education requirement.  Indian Trail Academy only

Entrepreneurship	812210	Prerequisites: None
½ credit	012210	Trerequisites. 110He
/2 Cledit		Description: Entrepreneurship recognizes the importance of a business opportunity. From the initial idea to operating and maintaining a business, this course explores every aspect of business ownership. Entrepreneurship is necessary not only for students who will become entrepreneurs but also for individuals working in the increasingly competitive corporate world. In the United States, small businesses make up close to 90 percent of all businesses. Students will be challenged to conduct research, make decisions, and be creative while they learn how to write and present a business plan.
		Indian Trail Academy only
Computer Applications for Business ½ credit	812610	Prerequisites: None  Description: In the business world, Microsoft Office Suite is utilized by more employers than all other office suites combined. Potential employees who have these skills are highly sought after.  Students in this course will learn and use the core programs of the Microsoft Office Suite that will prepare them for positions in any organization. This includes: Windows 10, Microsoft Word, Microsoft Excel, and Microsoft PowerPoint. An integrated business simulation project incorporating all of the software will be completed.  Indian Trail Academy only
World of Business ½ credit	812810	Prerequisites: None  Description: Business is the core of our economic system, and every responsible citizen should have basic business knowledge. In this course students will gain the basic understanding of the different types of businesses, business management and

		ownership, and our government's role in business as well as learn what it takes to start their own business.  Indian Trail Academy only
<b>Business Management</b>	813010	Prerequisites: World of Business
½ credit		Description: This course is designed to provide a fundamental understanding of business management. Students will be taught core content applicable to all aspects of business, including:
		1. The role of a manger and the importance of good leader-ship,
		2. Typical business organizational structure,
		3. Human relations skills required in dealing with employees, and
		4. Effective management strategies used in modern businesses.
		Indian Trail Academy Only
Innovation Lab 1 credit	813111 813112	Prerequisites: World of Business; Computer Apps for Business, Marketing, or Accounting; and Financial Literacy
		Description: This full-year capstone course provides a simulated business environment in which students create and manage a virtual company and conduct business with other student firms nationally and internationally. Students are involved in every aspect of the business, including human resources, accounting, product development, production, distribution, marketing, and sales. Leadership opportunities within the firm provide further relevant experience. The program enables participants to experience careers, acquire

		global economic knowledge, develop interpersonal and organizational skill, utilize technology as applied in business, and gain a clear understanding of how employees work together to meet the needs of the company while conveying the professional expectations of the workplace.  Indian Trail Academy only
Hawk Shop Internship	838311	Prerequisites: Marketing (830111 and
1 credit	838312	830112) or active DECA member and application
		Description: The Hawk Shop serves the Indian Trail High School and Academy com- munity by promoting civic consciousness in its support of school events and programs. The Hawk Shop (school store) is a unique business lab where students learn hands-on employment skills in an actual retail operation. Students will be responsible for the daily operation of the business, including merchandising and management functions.
		Indian Trail Academy only
Marketing Gets Digital	830210	Prerequisites: World of Business
1/2 credit		Description: In this course students will learn the what, the how, and they whys of social media marketing. Social media has become a central component of marketing, one that the next generation of business leaders will need to be adept at in order to survive in the business world. Students will gain an understanding of the ins and outs of social media platforms, such as Facebook, Twitter, Pinterest, Snap Chat, Instagram, Blogs, LinkedIn, YouTube, Google+, and more.  Indian Trail Academy only
Introduction to	890811	Prerequisites: None
Broadcasting	890812	
1 credit		Description: Introduction to Broadcasting is a year-long course that will focus on learning the ancient art of oral storytelling combined with the twenty-first century skills of using tachnology based platforms and understanding
Kenosha Unified School District	1	technology-based platforms and understanding Revised 2/19/25

		the production of student productions. Students will learn how to choose a topic based on audience interest; prepare and execute community interviews; and research, write, and produce a podcast using learned knowledge of law and ethics, technology, research, and English skills.
Databases <sup>3</sup> / <sub>4</sub> credit	G-152-080	Prerequisites: G-152-081 or G-152-184  Description: In this course students explore concepts, design, documentation, and implementation of various database systems, including proprietary and open source technologies. Students implement Structured Query Language to store, retrieve, and manipulate data. Students create queries, normalize database structures, and create stored procedures. Upon completion of this course, students will be prepared to develop and maintain databases used in application development  Indian Trail Academy only
Programming in Python <sup>3</sup> / <sub>4</sub> credit	G-152-081	Prerequisites: None  Description: In this course students investigate the fundamentals of computer programming using the Python programming language. Students examine data types, variables, conditional statements, looping, array structures, and structured programming techniques. Upon completion of the course, students will be able to use Python to apply problem-solving skills to create applications for delivery to various platforms.  Indian Trail Academy only

# **COMMUNICATIONS ACADEMY**

	COUI	RSES
Advanced Digital Graphics	520915	Prerequisites: None
½ credit		Description: This course will build on the freshman foundation of the Intro to Digital Media curriculum. Students will continue using the visual language of art as a form of communication found in personal art expression, advertising, typography, and graphic arts. Students will learn to be proficient in multi-media materials while applying the graphic design elements and principles with technology literacy tools. This course is the second step in the communications program to build competency in the seven essentials of graphic design and visual presentation. Advanced drawing techniques will be practiced to create realistic images with advanced color theory. Adobe Illustrator will be used to manipulate text and imagery with vector quality in contrast to the Photoshop raster program imagery. Integrated projects with core classes will provide a broad understanding of how design can be used as a vehicle to demonstrate understanding. Art exhibits and portfolio development will continue in this course and be building blocks for the students' Senior Showcase community event when it applies.  Indian Trail Communications Academy only
ComAC Studios 1 credit	861111 861112	Prerequisites: None
Kenosha Unified School District	13	Description: In an internship course where students can apply skills learned related to management of a design and production through a student-led business that will manufacture customized products and point of sale designs for clients and the public, students will work within design, marketing, manufacturing, and/or administrative departments. Focus will be in practicing a business plan that fosters growth and building a professional portfolio with work created for actual clients.

		Indian Trail Communications Academy only
Multimedia Production 1	890411	Prerequisites: None
1 credit	890412	1
		Description: This is an introductory course
		designed to teach students the basic principles
		of video production. Students explore the
		media of film, television, radio, commercials,
		and animation.
		Indian Trail Academy only
Multimedia Production 2	890511	Prerequisites: Multimedia Production 1
1 credit	890512	D : .: T1: 1:11 .1
		Description: This course builds upon the
		knowledge and experience gained from
		Multimedia 1 and extends the integration to other applications and uses. This class allows
		for a greater understanding of the world of
		multimedia and its different forms in use to-
		day. The programs used will relate to website
		production, computer animation, video
		editing, audio editing, and publishing.
		Indian Trail Academy only
<u>Photojournalism</u>	890911	Prerequisites: Introduction to Broadcasting
1 credit	890912	
		Description: Photojournalism is a course that
		will focus on the skills, law and ethics, his-
		tory, and storytelling process of photojournalism. Students will use digital
		cameras, conduct interviews, and use the
		caption-writing process and storytelling skills.
		Students will develop skills in photography
		and writing to tell complete visual stories
		accompanied by the written word.
<b>Photojournalism</b>	890915	Prerequisites: None
½ credit		
		Description: Photojournalism is a course that
		will focus on the skills, law and ethics,
		history, and storytelling process of photo-
		journalism. Students will use digital cameras,
		conduct interviews, and use the caption- writing process and storytelling skills.
		writing process and storytelling skills.  Students will develop skills in photography
		and writing to tell complete visual stories
		accompanied by the written word.
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		Indian Trail Communications Academy only

Podcasting	891011	Prerequisite: Introduction to Broadcasting
1 credit	891012	
		Description: Combining the words iPod and broadcasting, podcasting is a journalistic tool used to join the historic spoken word storytelling with twenty-first century technology. This course will require students to hone in on
		their English language art skills including scripting structural story arcs, implementing investigative research, and synthesizing information. Students will explore the community they live in through the process of searching for stories, interviewing, and inviting guest speakers. Students will develop valuable skills, such as working as a team, meeting deadlines, and problem solving to prepare
		them for postsecondary college-and-career opportunities.
		Indian Trial Academy only

# **FINE ARTS**

# **ART COURSES**

COURSES		
Foundations of	510511	Prerequisites: None
Design/Drawing	510511	Trerequisites. None
1 credit	310312	Description: This course is available for grades 9 and 10. This course introduces the student to the visual language of art as a form of communication found in personal art expression, advertising, and graphic arts. Students will learn to be proficient in multimedia materials while applying art elements and principles.  Indian Trail Academy only
Graphic Design and Illustration 1	520911 520912	Prerequisites: Foundations of Design/Drawing (510511 and 510512)
1 credit		Description: This course is available for grades 11 and 12. This course is designed to build on skills and knowledge learned in the Fundamentals of Design/Drawing class. Students will begin learning the Adobe Photoshop and Illustrator programs by creating a variety of exercises and projects.  Indian Trail Academy only
Graphic Design and Illustration 2	521011 521012	Prerequisites: Foundations of Design/Drawing (520911 and 520912)
1 Cleuit		Description: This is available for grades 11 and 12. This course will connect skills learned from Graphic Design and Illustration 1. The program combines artistic creative expression with computer graphic skills to produce art work that communicates to the world audience. Programs of focus will be in Photoshop, Illustrator, and In Design. Along with digital photography and traditional art media, this course will concen-trate on the skills and processes commonly used within the printing and graphic design industries.  Indian Trail Academy only

<b>Correlations of Design and</b>	521111	Prerequisites: Indian Trail Academy—
Graphics	521112	Communications Academy student and
1 credit	321112	Graphic Design and Illustration 2
1 credit		Graphic Design and mustration 2
		Description: This course is available for grade 12. Correlations of Design and Graphics is a full-year capstone course for students preparing for real-world employment or university study in publication design, package design, and product prototyping. Graduates will be able to understand and solve a wide variety of communication problems between clients and their target audience.
		Indian Trail Academy only
Illustration Media GATEMY	521210	Prerequisites: None
Concepts 1 credit		Description: This course guides students through an organized experimentation of traditional art media to create images that convey specific messages to viewers. A variety of media is used including: watercolor, acrylic, oil pastel, inks, dyes, collage, and computers. Good composition, visual organization, development of creative thinking, and visual problem solving will be emphasized. This course will include a study of perspective, light, shade, and color theory. Current design and color trends will be explored.  Indian Trail Academy only

# **ENGLISH/LANGUAGE ARTS**

	COU	RSES
The Pulse Honors	172012	Prerequisites: None
½ credit		Description: The focus of the course is on supervising the design and production of the school newspaper. Students will be responsible for controlling deadlines, editing student work prior to publication, and managing all other aspects of <i>The Pulse</i> .
Capstone in Journalism 1 credit	176111 176112	Indian Trail Academy only  Prerequisites: Introduction to Broadcasting, Photojournalism, publications course (Yearbook, Newspaper, Video Announcements, or Podcasting)  Description: This course is available for Indian Trail Communications Academy students in grade 12. Capstone in Journalism is a full-year course for students preparing for real-world employment or postsecondary education in journalism.
The Pulse Online Newspaper Internship 1 credit	898111 898112	Indian Trail Academy only  Prerequisites: None  Description: This course is offered for elective credit at Indian Trail Academy. The course focuses on the production of the school newspaper. Students will enhance their technical writing skills, conduct interviews, and refine research skills. Layout, design, and production will be studied and applied as students are responsible for writing and delivering The Pulse.  Indian Trail Academy only

### **SCIENCE**

	COU.	RSES
Lab Tech and Equipment	411511	Prerequisites: None
1 credit	411512	1
		Description: This course teaches students basic laboratory skills and provides practice in the use of lab equipment in preparation for future coursework in the medical science academy.
		Indian Trail Academy only
Accelerated Biology 1 credit	421111 421112	Prerequisites: None
		Description: Accelerated Biology is taught in the Indian Trail academies. Course content is similar to Biology Honors. Students will develop under-standings of key concepts related to the molecules of life, structures, and processes of organisms. They will use science and engineering practices to study the inheritance and variation of traits and develop explanations related to the unity and diversity of life. The interactions, energy, and dynamics of ecosystems and the role of humans in ecosystems will also be explored. Instruction in Accelerated Biology emphasizes in-depth critical thinking and independent work.  Indian Trail Academy only
Animal Survey 1 credit	422111 422112	Prerequisites: Biology
		Description: In this class students will concentrate on how animals behave, why animals behave the way they do, and how scientists design experiments to study their behavior. Students will learn about the biology behind animal communication, feeding behavior, mating, predator-prey relationships, aggression, territorial behavior, social behavior, and parental care. For the lab portion of this course, the live animal studio, videos, and out-of-doors will be utilized to supplement lecture and textbook notes.  Indian Trail Academy only

Genetics ½ credit	423110	Prerequisites: Biology, Ecology, and Animal Behavior
		Description: This is a branch of biology that deals with heredity and the variation of organisms. Areas of study will include:
		Cell division,
		• Mitosis,
		• Meiosis,
		• Dominant and recessive genes,
		Hybridization,
		Mutation,
		Inherited diseases,
		DNA molecular patterns,
		RNA, Protein synthesis,
		Expression of traits, and
		Methods of analysis.
		Indian Trail Academy only
Human Anatomy and	423211	Prerequisites: Biology and Chemistry
Physiology 1 credit	423212	Description: This class highlights the systems
		that make up the human body: circulatory,
		respiratory, digestive, reproductive, muscular,
		skeletal, and nervous. The interdependence of the systems and the breakdown of these
		systems are studied. A substantial amount of
		laboratory experience will be involved either through actual lab work or computerized simulations.
		Indian Trail Academy only

Microbiology	423310	Prerequisites: None
½ credit		Description: This course is designed to build upon student investigations that began in kindergarten through eighth grade and high school biology and chemistry and will be performance and laboratory based. It integrates the study of microbial physiology, ecology, and genetics with instruction focusing on the impact micro-organisms have on health, agriculture, biotechnology, and the environment. Areas of study include classification of microorganisms; cellular structure and function; metabolic diversity; microbial genetics; control of microbial growth; microbial ecology, biotechnology, and applied microbiology; and host-microbe interactions. Careers related to medicine, health care, research, food science, and biotechnology should be emphasized throughout the curriculum. Real-life applications should be emphasized through case studies concerning diseases; epidemiology; food preparation and safety; and use of microbes in industry, agriculture, biotechnology, and the environment.
Accelerated Chemistry 1 credit	431111 431112	Indian Trail Academy only  Prerequisites: A biology course  Description: Accelerated Chemistry is taught in the Indian Trail academies. Course content is similar to Chemistry Honors. Students will develop understandings of key concepts related to the structure of the atom, the periodic table, and chemical bonding. They will use science and engineering practices to study the states of matter, gas laws, acid and bases, and the energy of reactions. Students will be asked to apply their newly gained knowledge of chemical processes to their everyday lives and to Earth's systems. While all chemistry students will be encouraged to use higher-level thinking skills, students in Accelerated Chemistry will demonstrate these skills on a regular basis.  Indian Trail Academy only

Accelerated Physics 1 credit	441111 441112	Prerequisites: A biology course, a chemistry course, and Algebra 2
		Description: In this course instructors use a math-based approach to provide students with an introduction to the field of physics. Topics include:
		1. A mathematics review;
		2. Motion, forces, work, and energy;
		3. Properties of solids, liquids, and gases;
		4. Elasticity;
		6. Thermodynamics;
		7. Acoustics (sound);
		8. Optics (light);
		9. Electricity and magnetism; and
		10. Modern physics.
		This course is highly recommended for students considering science and engineering careers.
		Indian Trail Academy only
Geoscience and Astronomy 1 credit	454011 454012	Prerequisites: A biology course, a chemistry course, and a physics course
		Description: This course consists of one semester of geology and one semester of astronomy. The geology portion is an introduction to Earth's dynamic systems, including plate tectonics, mineral and rock formation, Earth's origins, geologic time, and a variety of geologic hazards. The astronomy portion includes a study of our solar system, planets, stars, galaxies, and the universe at large. All students have learned in the areas of biology,

		chemistry, and physics will be used to advance their understanding of Earth and its place in the Cosmos.  Indian Trail Academy only
Medical Terminology ½ credit	484110	Prerequisites: None
		Description: This course focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction terms with an emphasis on spelling, definition, and pronunciation. They are introduced to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems as well as systemic and surgical terminology.  Indian Trail Academy only

LAKEVIEW
TECHNOLOGY
ACADEMY
ONLY
COURSES

## **CAREER AND TECHNICAL EDUCATION**

## **BUSINESS AND INFORMATION TECHNOLOGY**

COURSES		
Drafting, Electronics, and	880111	Prerequisites: None
Machining	880112	_
1 credit		Description: This course is a comprehensive introduction to the materials and products used to design, develop, and engineer manufactured products. Board drafting experience will provide the basis for the introduction of AutoCAD in the sophomore-level classes. Materials science will be emphasized during the application of industrial materials and processes to a project-oriented curriculum. Students will solve problems, make decisions related to manufacturing materials and processes, test materials, and transform standard stock into finished products. Students will complete lab reports and maintain project control documentation, which highlights the course's competencies.
		LakeView Technology Academy only
Javascript <sup>3</sup> / <sub>4</sub> credit	G-152-097	Prerequisites: G-152-182  Description: This course will introduce students to adding intuitive, dynamic, and animated interaction between their web pages and visitors. Using HTML.5 as a base, JavaScript, Ajax, and jQuery library will be used to react to user actions and change web page structure, content, and appearance. Through this course, students will learn how to dynamically refine, design appearance, control and manipulate HTML elements via the DOM API, and create content within a medium that is used for both desktop and mobile device computing.  LakeView Technology Academy only
Computer Programming C  3/4 credit	G-152-124	Prerequisites: G-152-126

	1	
Introduction to Programming and Database	G-152-126	Description: Learn the principles of object- oriented programming using C++. Topics include: formatted 1/10 streams, variables, constants, references, functions, decisions, loops, classes, objects, inheritance, memory management, libraries, and error handlers.  LakeView Technology Academy only  Prerequisites: IT in Business (829110)
<u>Concepts</u>		Description: This class will introduce students
1 credit		to the structures, logic, and controls of programming techniques and database applications. Students will be able to develop a program that will utilize a database. This class will be delivered in a blended format. Four hours will be delivered in a traditional format, and one hour will be delivered via the Internet. A computer with access to the Internet, a browser, software, and an e-mail account will be required for this class. Details will be provided on the first day of class. Taught as a contracted service class by Gateway Technical College instructors, students earn four Gateway credits.
		LakeView Technology Academy only
Web Programming 1	G152-182	Prerequisites: None
³⁄₄ credit		Description: This course teaches essential web page development. Students will learn how to manage the Application Life Cycle, build the user interface, format the user interface, code with JavaScript, as well as recognize the importance of marketing and implementing fundamental design concepts. Taught as a contract for service course by a Gateway Technical College instructor, students earn three Gateway credits.  LakeView Technology Academy only
Web Programming 2	G-152-150	Prerequisites: Web Programming 1
<sup>3</sup> / <sub>4</sub> credit		Description: This course provides an
		introduction to HTML, CSS, and JavaScript.

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Students will utilize a software development kit to develop working applications. Taught as a contracted service class by Gateway Technical College instructors, students earn three Gateway credits.
LakeView Technology Academy only

## TECHNOLOGY AND ENGINEERING

COURSES		
Supermileage Vehicle ½ credit	870710Q	Prerequisites: Introduction Design Engineer— Tech, Drafting/Electronics/Machining
		Description: Supermileage Vehicle is an engineering course that challenges students to design, fabricate, and test an energy-efficient vehicle. The course exposes students to digital design, metal fabrication, welding, and electronics. Throughout the duration of the class, students will be learning about vehicle efficiency design systems. Students will design a chassis, drive train, and steering and braking systems. At the completion of the class, students will test their vehicles at various challenges across the state.  LakeView Technology Academy only
<b>Fundamentals of</b>	881311	Prerequisites: None
Engineering 1 credit	881312	Description: This course presents an in-depth focus on the classification, application, and evaluation of industrial processes. Students study the characteristics, advantages, and disadvantages of various industrial processes. Speakers from local industries will provide students examples of the application and logistics of these industrial processes, which cannot be reproduced in a laboratory. The safe application of the tools and equipment used to perform the industrial processes are studied and emphasized through hands-on activities and projects. This course provides students an opportunity to study the processes used to design, develop, and engineer products to meet human needs and wants. Students in this course solve problems and make decisions related to the tasks of designing, engineering, and testing products for manufacture.  LakeView Technology Academy only
Computer-Aided Design Solids Honors 1/2 credit	889320	Prerequisites: Computer-Aided Design 2 (860210)

		Description: Students use the computer and computer-aided design system to create solid models of various machine components. They also convert solid parts into conventional orthographic drawings, which include sections, auxiliary views, and dimensions. Taught as a contracted services class by Gateway Technical College instructors, students earn two Gateway credits upon successful completion.  LakeView Technology Academy only
Front-End Development	G-152-084	Prerequisites: JavaScript (G-152-182)
with Angular		
³/4 credit	6.152.161	Description: This course introduces students to the Angular framework. Students will use TypeScript for developing Angular applications. Students learn the architecture of Angular applications, including components, directives, services, and dependency injection framework. Students will create single-page applications (SPAs) that utilize data binding, the Angular router, and services and dependency injection that are based on template-driven and reactive forms. Upon completion students will be able to create modern SPAs utilizing the Angular framework to solve a specific development need.
Game Programming Tachnologies	G-152-161	Prerequisites: None
Technologies ½ credit		Description: Students will learn essential mobile game programming skills and develop skills to enhance their success in Gateway Technical College and their career. Students will gain a foundation for writing games on mobile devices. The class will utilize Android Studios to implement different parts of a game, such as graphics, user input, audio, animated objects, and physics. Putting these together students will work towards a finished product and working mobile game by the end of the course.
Mobile Game Programming	G-152-186	Prerequisites: None
³⁄₄ credit		Description: This course teaches students essential mobile game programming skills and develops skills to enhance their success in Gateway Technical College and their career. Students will gain a foundation for writing games

Couging and	G-444-330	on mobile devices. The class will utilize Android Studios to implement different parts of a game, such as graphics, user input, audio, animated objects, and physics. Putting these together students will work towards a finished product and working mobile game by the end of the course.
Gauging and Ouality Control  3/4 credit	G-444-330	Prerequisites: None  Description: No matter what technical field you are interested in, you need to know how to measure. Countless professionals—from auto mechanics to design engineers—need to accurately measure every day. This course starts out giving you hands-on experience in measuring with calipers, micrometers, bore gauges, depth micrometers, and rulers. It also gives a look into how drawings are toleranced; and quality programs, including statistical process control and six sigma, are introduced along with an introduction to the concepts of automated gauging. Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion.  LakeView Technology Academy only
CNC Machine Technology  3/4 credit	G-444-331	Prerequisites: None  Description: This course provides an introduction to CNC machining processes and the technology that supports them. Some of the processes to be covered are spot drilling, drilling, reaming, tapping, counter boring, countersinking, defining and calculating speed and feed rates, screw thread identification, and drill sharpening. Students will perform these processes on manual equipment prior to observing them on CNC equipment. Occupational computer skills are also covered in this course. Taught as a contracted service class by Gateway Technical College instructors, students earn 3 credits.  LakeView Technology Academy only
Fundamentals of CNC Machine Application 1 credit	G-444-338  On	Prerequisites: None  Description: This course is designed to give students a familiarization with the necessary

Introduction to Hydraulics and Pneumatics 3/4 credit	G-612-102	practices and techniques used to operate computer numerical controlled (CNC) machines. Some of the topics covered include CNC machine introduction, safe practices and techniques used to remove burrs, basic CNC machine operator maintenance, and production support equipment use and operations. Topics such as homing of machine, tooling used, an understanding of offsets, setting offsets, and the application of offsets in the CNC machine will also be covered. Actual run time in the lab will be provided for hands-on machine operation. Students will work in groups and as individuals to gain experience in machine operation during a production run, applying theories learned to the production process. Taught as a contracted service class by Gateway Technical College instructors, students earn four credits.  LakeView Technology Academy only  Prerequisites: None  Description: Uncountable machines, from robots to air tools to tires, rely on compressed air. Pressurized fluid is one of the strongest ways to transfer power. Hydraulics is the force behind the great lifting strength of forklifts and front-end loaders. The Introduction to Hydraulics and Pneumatics course gives you an introduction into how these systems work. This course is a combination of theory and practical lab exercise that introduce the student to basic pneumatic principles, compression of air, word devices, control devices, and circuit diagrams. Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion.  LakeView Technology Academy only
Earling Southwarten Wisconsin sover 1917	G-020-302	Prerequisites: None
Principles and Industrial Controls  3/4 credit		Description: This class will cover motors used in industrial applications, including both single- and three-phase motors. Industrial electrical will also be covered, such as motor control circuits, timing circuits, and counter circuits using ladder logic

		and electrical drawings. This course will cover electrical safety, including lockout tag out, Ohm's Law, and use of a multimeter and oscilloscope, along with reading, writing, building, and troubleshooting ladder diagrams with relays, timers, and counters. The concepts of relays, timers, and counters will be covered, built, and troubleshot. This course is taught as a contracted services class by Gateway Technical College instructors. Students earn three Gateway credits upon successful completion.
Mechanical Skills for Technicians  3/4 credit	G-628-109	Prerequisites: None  Description: This lab-based course consists of one lecture per week. Students are working hands on in the lab putting together systems that transfer power and other mechanical devices. In the labs students learn about and correctly build belt drives, chain drives, gear drives, bearings, lubrication, and much more. Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion.
		LakeView Technology Academy only
Industrial Robotics and Programming  3/4 credit	G-628-115	Prerequisites: None  Description: Industrial Robotics and Programming is a study in industrial robotics and programming. Students will learn to program a FANUC industrial robot and earn FANUC CERT certification. Students will develop frames, learn file manipulation, program the robot to manipulate products and perform different tasks based on I/O conditions, and utilize variables. Students will also study robotic power supplies, end-of-arm tooling, and control systems. This course is taught as a contracted services class by Gateway Technical College instructors. Students earn three Gateway credits upon successful completion.  LakeView Technology Academy only

Industrial Control CATEMY	G-664-100	Prerequisites: Intro to Mechatronics (881410)
Systems	0 004 100	Trerequisites. Intro to Weenatromes (001410)
½ credit		Description: In this course students are
		introduced to basic concepts of industrial
		computer-controlled systems. The student
		explores various types of programming using
		robots and programmable logic controllers and
		participates in lab experiments designed to
		introduce programming principles; electronic inputs and outputs (analog and digital); and
		communication between system components,
		including Ethernet protocols. Upon completion of
		the course, students will be able to explain how the
		control processes are utilized to automate
		manufacturing facilities.
		LakeView Technology Academy only
Introduction to GATEWAY	G-664-105	Prerequisites: Introduction to Mechatronics
<b>Industrial Robotics</b>		(881410) and Introduction to Industrial Control
½ credit		Systems (881610)
		Description: In this course students are introduced to programming techniques for
		introduced to programming techniques for industrial robots. The student examines teach
		pendant programming, including input/output,
		routines, decision making, six frames of posi-
		tional operation, and robot communication. Upon
		completion of the course, students will be able to
		operate and program industrial robots commonly
		used in Industry 4.0.
		LakeView Technology Academy only
Introduction to GATEWAY	G-644-110	Prerequisites: None
Mechatronics		
½ credit		Description: In this course students are
		introduced to microprocessor-controlled electro- mechanical systems. The student examines how
		individual components work and how they are
		integrated into simple systems. Upon completion
		of the course, students will understand what
		technicians do in the workplace and how industry
		utilizes mechatronics in advanced manufacturing.
		LakeView Technology Academy only
	L	Dake view Teemiology Academy Only

		<u> </u>
Industrial Internet (GATEWAY)	G-664-120	Prerequisites: Introduction of Mechatronics
of Things		(881410) and Introduction to Industrial Control
½ credit		Systems (881610)
		Description: In this course students are
		introduced to theoretical and practical topics of
		the Industrial Internet of Things (IIoT). The stu-
		dent investigates the range of sensor and actuator
		devices available, ways in which they communi-
		cate and compute, methods of getting information
		to and from IIoT-enabled devices, and ways of
		visualizing and processing data acquired from the
		IIoT. Upon completion, students will utilize hard-
		ware and software to construct a sensor network
		within an existing system and utilize standards
		tools to visualize the data captured.
		tools to visualize the data captured.
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		LakeView Technology Academy only

## **SOCIAL STUDIES**

COURSES		
<b>Social Science Seminar</b> 2	210111	Prerequisites: None
1 credit 2	210112	
		Description: This course is designed as an overview of contemporary themes in the social sciences (geography, political science, economics, psychology, sociology, anthropology, and history). Much of the focus will be on themes that support academy goals. Topics will be addressed in an interdisciplinary project-based style and thematically integrated with activities. This course will offer an introduction and general overview of the social science disciplines and will focus on topics that are current and relevant to the twenty-first century student. Through their examination of these behavioral sciences, students will gain a great deal of insight into who they are and, equally as important, where they see themselves in the future.  LakeView Technology Academy only