



Kenosha Unified  
School District

# HIGH SCHOOL COURSE CATALOG

2018-19



# KUSD HIGH SCHOOLS

BRADFORD  
HIGH SCHOOL



HILLCREST  
SCHOOL



TREMPER  
HIGH SCHOOL



HARBORSIDE  
ACADEMY



REUTHER CENTRAL  
HIGH SCHOOL



LAKEVIEW  
TECHNOLOGY  
ACADEMY



KENOSHA  
eSCHOOL



INDIAN TRAIL  
HIGH SCHOOL  
AND ACADEMY



# OFFICE OF TEACHING AND LEARNING



**JULIE HOUSAMAN**

Chief Academic Officer



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Coordinator of Educator Effectiveness and Social Studies



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**JENNIFER LAWLER**

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**SUSAN MIRSKY**

Coordinator of English/Language Arts



**CHERYL KOTHE**

Coordinator of Career and Technical Education



**SCOTT PLANK**

Coordinator of Fine Arts



**CHRISTINE PRATT**

Coordinator of Science



**SARAH SMITH**

Coordinator of Language Acquisition

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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

COURSES			
<p><b><u>Desktop Publishing</u></b> ½ credit</p> 	810610	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Design an advertisement, or publish a newsletter used by a local company. Students will create business cards, CD covers, candy bar wrappers, flyers, forms, brochures, newsletters, greeting cards, and announcements using graphics, objects, fonts, etc.</p>	
<p><b><u>Web Page Design</u></b> ½ credit</p>	810710	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> The Web has become the hottest new way for businesses and individuals to get their message out. Businesses and individuals are creating Web pages and updating them periodically. Learn HTML language and software to design Web pages.</p>	
<p><b><u>Personal Finance</u></b> ½ credit</p> 	810910	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Students will develop the skills needed to make sound financial decisions. Topics will include purchasing, credit, banking, insurance, taxes, funding your first car and apartment, economics, and careers. This course meets the requirement for <b>consumer education credit</b> and meets Wisconsin Financial Literacy Standards.</p> <p>Transcripted with Gateway Technical College</p>	
<p><b><u>Personal Finance Honors</u></b> ½ credit</p> 	810920	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This class focuses on the roles of a citizen, student, family member, consumer, and active participant in the business world. Students will investigate many important areas of interest that will enhance their financial security. Students will also better understand</p>	


		<p>your own wants, needs, and values and how these affect personal financial decisions. Understanding the concepts presented in this class will enable students to make wise decisions that will help their financial future and make them a more effective consumer. This course meets the requirement for <b>consumer education credit</b> and meets Wisconsin Financial Literacy Standards.</p> <p>Transcripted with Gateway Technical College</p>
<p><b><u>International Business</u></b> ½ credit</p> 	811110	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Starting a Business</u></b> ½ credit</p> 	811210	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> In this introductory 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.</p>
<p><b><u>Accounting</u></b> 1 credit</p> 	811411 811412	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Learn the language of business. Accounting can help you keep track of money for business and personal use. Students will use financial information to make decisions and may earn advanced standing at Gateway Technical College if they complete the course with a B or better.</p>
<p><b><u>Advanced Accounting Honors</u></b> 1 credit</p> 	811421 811422	<p><i>Prerequisites:</i> Accounting (811411 and 811412)</p> <p><i>Description:</i> Corporate and managerial accounting will be emphasized. If you liked Accounting, you will love Advanced</p>






		Accounting. This is a college prep class that will give you a definite advantage toward your business career. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.
<b><u>Leadership</u></b> ½ credit	811610	<i>Prerequisites:</i> None  <i>Description:</i> 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 identified as crucial for success in the future, including problem solving and creative thinking, self-esteem, goal setting and motivation, interpersonal skills and teamwork, situational leadership, and communication. The class emphasizes small group work and hands-on experiences.
<b><u>Business and Personal Law</u></b> ½ credit	 811710	<i>Prerequisites:</i> None  <i>Description:</i> 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 develop the ability to analyze, evaluate, and resolve legal disputes. Learn how the legal system impacts you.  Transcripted with Gateway Technical College
<b><u>Business and Personal Law—Honors</u></b> ½ credit	 811720	<i>Prerequisites:</i> None  <i>Description:</i> 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 understanding 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.




		Transcripted with Gateway Technical College
<u><b>Financial Literacy</b></u>  1 credit	812111 812112	<i>Prerequisites:</i> None  <i>Description:</i> 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. <b>This course meets the consumer education requirement.</b>  Transcripted with Gateway Technical College  Indian Trail Academy only
<u><b>Entrepreneurship</b></u>  ½ credit	812210	<i>Prerequisites:</i> None  <i>Description:</i> This class is designed to teach students the skills necessary for owning, opening, and operating a small business. Students will discover what it takes to be an entrepreneur and how to recognize opportunity. Students will be challenged to conduct research, make decisions, and be creative while they learn to write a business plan.  Transcripted with Gateway Technical College  Indian Trail Academy only
<u><b>Computer Applications for Business</b></u>  ½ credit	812611	<i>Prerequisites:</i> None  <i>Description:</i> This course teaches students to use computer programs in the business setting. The software includes word processing, presentation, spreadsheet, and desktop publishing programs. The class will instruct students in the individual software, and the final weeks will include integrated business simulation projects incorporating all of the software learned.  Transcripted with Gateway Technical College  Indian Trail Academy only
<u><b>Introduction to Business</b></u> ½ credit	812710	<i>Prerequisites:</i> None



		<p><i>Description:</i> Business is the core 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 business, business management and ownership, and the government's role in business as well as learn what it takes to start their own business.</p>
<p><b><u>Teen Leadership</u></b> 1 credit</p>	<p>812811 812812</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Teen Leadership is a course in which students develop leadership, professional, and business skills. Personal and professional 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 responsibility; and understanding emotional intelligence, the effects of peer pressure, and problem-solving skills.</p>
<p><b><u>Internship</u></b> 1 credit</p>	<p>818311 818312</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Take advantage of special opportunities such as an internship with a local business, and receive credit towards graduation as well as practical work experience. For example, a student can work with a financial loan office at a bank learning the skills that are needed for a banking career. This can be a paid or nonpaid position, and the student must apply and interview for the position.</p> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Employability Skills</u></b> ½ credit</p>	<p>818410</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Computer Applications for IT</u></b></p>	<p>820111 820112</p>	<p><i>Prerequisites:</i> None</p>

1 credit		<p><i>Description:</i> This class is intended to prepare potential information technology (IT) track students for the demands of that field. Word processing, spreadsheets, presentation software, and databases are presented. Computer graphics programs will also be covered. In addition, this class teaches basic programming concepts with Q-Basic and Webpage design. Computer terminology and concepts are also introduced.</p>
<p><b><u>Computer Applications</u></b> ½ credit</p>	 <p>820310</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> The purpose of this course is for students to apply computer software and technology to communicate and problem solve in our information-intensive society. Students will apply software applications, including word processing, spreadsheets, databases, and presentation software, to compose, organize, create, and communicate information. Students will integrate these programs along with e-mail and the Internet to prepare documents and complete projects.</p> <p>Transcribed with Gateway Technical College</p>
<p><b><u>Exploring Computer Science</u></b></p>	<p>820421 820422</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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</p>





		be introduced to topics such as interface design, limits of computers, and societal and ethical issues.
<u><b>AP Computer Science Principles</b></u> 1 credit	820531 820532	<i>Prerequisites:</i> Completion of Exploring Computer Science strongly recommended  <i>Description:</i> 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 software 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.
<u><b>AP Computer Science A</b></u> 1 credit	820631 820632	<i>Prerequisites:</i> Completion of AP Computer Science Principles strongly recommended  <i>Description:</i> The AP Computer Science A course is an introductory course in computer science. Because the design and implementation 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 computer 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 potential to earn college credit.
<u><b>Introduction to Programming and Database Concepts</b></u>  1 credit	827310	<i>Prerequisites:</i> IT in Business (829110)  <i>Description:</i> This class will introduce students 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.  <i>LakeView Technology Academy only</i>
<u><b>Advanced Databases</b></u>  3/4 credit	827410	<i>Prerequisites:</i> 827310 Programming and Databases and Introduction to Concepts  <i>Description:</i> This course offers students an introduction to enterprise data server technology. The class covers the concepts of both relational and object relational data bases and the powerful SQL programming language. Students are taught to create and maintain database objects and to store, retrieve, and manipulate data. Demonstrations and hands-on practice reinforce the fundamental concepts. Taught as a contracted service class by Gateway Technical College instructors, students earn four Gateway credits.  <i>LakeView Technology Academy only</i>
<u><b>IT Essentials</b></u>  3/4 credit	827510	<i>Prerequisites:</i> None  <i>Description:</i> IT (information technology) Essentials focuses on the relationships between hardware and system software. The course topics include personal computers, peripherals, networking, security,


		troubleshooting, and communication skills. This is an introductory course that presents a foundation toward the pursuit of CompTIAA+ certification.  Transcripted with Gateway Technical College  Bradford High School and LakeView Technology Academy only
<b><u>Ruby on Rails</u></b> ¾ credit		827610  <i>Prerequisites:</i> Introduction to Programming and Database Concepts (827310)  <i>Description:</i> This course introduces the student to Ruby (and Rails), a popular open-source dynamic object-oriented scripting language. Topics will include installing Ruby, an introduction to the Ruby programming language, an overview of the Rails framework, ActiveRecord basics, ActionController coding, Action Views, AJAX and the Web 2.0 Action mailer basics, security, and scaling. Students will produce a very modern web application that can be adapted to many professional web development needs. Taught as a contracted service class by Gateway Technical College instructors, students earn four Gateway credits.  LakeView Technology Academy only
<b><u>Web Programming 1</u></b> ½ credit		827910  <i>Prerequisites:</i> None  <i>Description:</i> 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 ½ credit.  LakeView Technology Academy only
<b><u>Review MTA 98-375</u></b> ¼ credit		827915  Web Programming 1 and the review course are a nine-week class that is taken together.

		<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This focused course helps prepare students to take the HTML.5 Application Development Fundamentals: MTA Exam 98-375. Taught as a contract for service course by a Gateway Technical College instructor, students earn ¼ credit.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Web Programming 2</u></b> ¾ credit</p> 	828010	<p><i>Prerequisites:</i> Web Programming 1 (827910)</p> <p><i>Description:</i> This course provides an introduction to HTML, CSS, and JavaScript. The course focuses on using HTML, CSS, and JavaScript to apply programming logic, define and use variables, perform looping and branching, develop user interfaces, capture and validate user input, store data, and create well-structured applications. This course will help prepare students for Exam 70-480. Taught as a contracted service class by Gateway Technical College instructors, students earn four Gateway credits.</p> <p>LakeView Technology Academy only</p>
<p><b><u>PHP Web Programming 1</u></b> ¾ credit</p> 	828110	<p><i>Prerequisites:</i> 827910 Web Programming 1</p> <p><i>Description:</i> This hands-on PHP web programming course provides the knowledge necessary to design and develop dynamic, database-driven web pages. Students will learn how to write and debug PHP code, how to effectively use many of its powerful features, and how to design and build their own PHP web applications. Students will design and create a web database using the popular MySQL DBMS to function as a backend database for their PHP website. Taught as a contracted service class by Gateway Technical College instructors, students earn four Gateway credits.</p> <p>LakeView Technology Academy only</p>



<p><b><u>Advanced Microcomputer Programming</u></b>    <small>Gateway Technical College        1200 Washington Park Road #201        Kenosha, WI 53142</small>        ¾ credit</p>	828310	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This class examines trends in microcomputer program development including: use of objects, database access, receiving use input, displaying output, error handling, application controls, and online assistance. Taught as a contract for service course by a Gateway Technical College instructor, students earn ¾ credit.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Game Programming</u></b>    <small>Gateway Technical College        1200 Washington Park Road #201        Kenosha, WI 53142</small>        ¾ credit</p>	829010	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course is an introduction to computer game programming. Students will create their own computer games utilizing development tools. Through hands-on work students will learn how to develop a typical game. Topics include graphics, game design, bitmaps, sprites, and backgrounds. Students will design, implement, and test interactive computer games. This course requires prior computer programming skills. Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Elements of Dynamic Web Design</u></b>    <small>Gateway Technical College        1200 Washington Park Road #201        Kenosha, WI 53142</small>        ¾ credit</p>	829710	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course introduces students to adding intuitive, dynamic, and animated interactions between webpages and visitors. HTMLS, Javascript and Ajax are the basis for student work. Taught as a contract for service course by a Gateway Technical College instructor, students earn 3 credits.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Introduction to Network/Web Concepts</u></b>    <small>Gateway Technical College        1200 Washington Park Road #201        Kenosha, WI 53142</small>        ¾ credit</p>	829810	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course will introduce networking and Web concepts. Topics will include the Internet, OSI model, wireless,</p>

		security, logical and physical topologies, hacking, and Web pages. Students will learn real-world skills related to employment.
		Transcripted with Gateway Technical College <b>LakeView Technology Academy only</b>
<b>Marketing</b> 1 credit	 830111 830112	<i>Prerequisites:</i> None  <i>Description:</i> 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 “hands-on” experience. This course may be taken for <b>consumer education graduation credit</b> .  Transcripted with Gateway Technical College
<b>Marketing Honors</b> 1 credit	 830121 830122	<i>Prerequisites:</i> None  <i>Description:</i> 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 "hands-on" experience. This course may be taken for <b>consumer education graduation credit</b> . Students have two options to earn honors credit: 1. exit interview or 2. compete with DECA.  Transcripted with Gateway Technical College
<b>Advanced Marketing</b> 1 credit	 830311 830312	<i>Prerequisites:</i> Marketing (830111 and 830112), application, and teacher permission required  <i>Description:</i> 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 marketing, including distribution, financing,



		<p>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 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.</p>
<p><b><u>Advanced Marketing Honors</u></b> 1 credit</p> 	<p>830321 830322</p>	<p><i>Prerequisites:</i> Marketing (830111 and 830112) and application</p> <p><i>Description:</i> 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 marketing, 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 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.</p>

<p><b><u>Retail Merchandising/ Management</u></b> 1 credit</p>	<p>830411 830412</p>	<p><i>Prerequisites:</i> Marketing (830111 and 830112) and application</p> <p><i>Description:</i> 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.</p>
<p><b><u>Retail Merchandising/ Management Honors</u></b> 1 credit</p>	<p>830421 830422</p>	<p><i>Prerequisites:</i> Marketing (830111 and 830112) and application</p> <p><i>Description:</i> 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:</p> <ol style="list-style-type: none"> <li>1. Exit interview,</li> <li>2. SBE Paper, or</li> <li>3. Compete with DECA.</li> </ol>
<p><b><u>Advanced Marketing Internship</u></b> 1 credit</p>	<p>838211 838212</p>	<p><i>Prerequisites:</i> Marketing (830111 and 830112) and concurrent enrollment in Advanced Marketing (830321 and 830322)</p> <p><i>Description:</i> These students are seriously pursuing a career in the field of marketing and wish to gain some practical experience in marketing-related local business. The student will be required to maintain employment records, adhere to school policies, and be an active and interested employee. Most internship employees are sought after by companies because of their training and expertise in marketing.</p>

<p><b><u>Hawk Shop Internship</u></b> 1 credit</p>	<p>838311 838312</p>	<p><i>Prerequisites:</i> Marketing (830111 and 830112) and application</p> <p><i>Description:</i> The Hawk Shop serves the Indian Trail High School and Academy community by promoting civic consciousness in its support of school events, programs, and charitable causes. 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.</p> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Retail Merchandising/Management Internship</u></b> 1 credit</p>	<p>838411 838412</p>	<p><i>Prerequisites:</i> Marketing (830111 and 830112) and concurrent enrollment in Retail Merchandising/Management (830411 and 830412)</p> <p><i>Description:</i> 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.</p>
<p><b><u>Social Media</u></b> ½ credit</p>	<p>830210</p>	<p><i>Prerequisites:</i> Introduction to Business</p> <p><i>Description:</i> 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.</p>


<p><b><u>The Millionaire's Club</u></b> ½ credit</p>	<p>811010</p>	<p><i>Prerequisites:</i> Introduction to Business</p> <p><i>Description:</i> 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 real-world investment situations for student analysis and decision-making strategies.</p> <p>Indian Trail Business Academy only</p>
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# FAMILY AND CONSUMER SCIENCE



COURSES		
Early Childhood Education and Services		
<p><b><u>Developing Child</u></b> ½ credit</p>	841210	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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 physical, social, emotional, and intellectual wellbeing of children and their various growth and development patterns will also be studied. Students interested in a career involving children will find this course useful.</p>
<p><b><u>Early Childhood Education</u></b> ½ credit</p> 	841310	<p><i>Prerequisites:</i> Child Development 1 (841210)</p> <p><i>Description:</i> This course has heavy emphasis on becoming a childcare professional. This includes planning a safe early childhood environment and creating and implementing curriculum.</p>
<p><b><u>Foundations of Early Childhood Development</u></b> ¾ credit</p> 	841610	<p><i>Prerequisites:</i> Child Development 1 (841210) and Child Development 2 (841310)</p> <p><i>Description:</i> This course introduces students to the early childhood profession. Course competencies include: integrating strategies that support diversity and anti-bias perspectives, investigating the history of early childhood education, summarizing types of early childhood education settings, identifying the components of a quality early childhood education program, and summarizing the responsibilities of early childhood professionals and exploring early childhood curriculum models. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.</p>

<b>Family and Community Services</b>		
<b><u>Building Relationships</u></b> ½ credit	840710	<i>Prerequisites:</i> None  <i>Description:</i> This course is available for grades 10, 11, and 12 and is designed to explore individual and family concerns of contemporary living. It includes such areas as understanding basic needs, personality development, mate selection, marriage and its adjustment, family, and society. This course aids students in developing human relationship skills and to learn to provide the best physical and emotional environment for present and future families.
<b><u>Parenting</u></b> ½ credit	841110	<i>Prerequisites:</i> None  <i>Description:</i> This course is available for grades 10, 11, and 12. Babies don't come with an instruction manual. This course examines how parents can best respond to their child's changing needs by understanding the developmental stages of children. Students will explore resources to enhance parenting skills, study influences on children, and build problem-solving skills. Students will come to understand the rewards of parenting, including nurturing another person and experiencing the unconditional love of a child. Along with the rewards come responsibilities, such as protecting children, providing for them, and understanding the importance of appropriate discipline. Parents are a child's first teacher, and this course will help students understand what it takes to be an effective parent.
<b>Food Production and Services</b>		
<b><u>Culinary Basics</u></b> ½ credit	840310	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Culinary Skills:</u></b> <b><u>Foods 2</u></b> ½ credit	840410	<i>Prerequisites:</i> Culinary Basics (840310)  <i>Description:</i> 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. Students may earn advanced standing at Gateway Technical College if they complete both Culinary Skills: Foods 2 and Career Foods: Foods 3 with a B or better.
<b><u>Career Foods:</u></b> <b><u>Foods 3</u></b> ½ credit	 840510	<i>Prerequisites:</i> Culinary Skills: Foods 2 (840410)  <i>Description:</i> 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 Food and Nutrition: Foods 1 and Culinary Skills: Foods 2. It focuses on the kinds of opportunities available in food service and helps students develop job skills necessary for the growing industry. Preparation of food for a variety of services and restaurant simulations will be part of the course. Students may earn advanced standing at Gateway Technical College if they complete both Culinary Skills: Foods 2 and Career Foods: Foods 3 with a B or better.
<b>Textiles and Apparel</b>		
<b><u>Clothing, Textile, and Apparel</u></b> ½ credit	840110	<i>Prerequisites:</i> None  <i>Description:</i> Students will have an opportunity to improve their basic sewing skills and knowledge of clothing construction, including use of a pattern. Sewing machines are to complete individual clothing projects. Students must purchase their own materials and supplies.
<b><u>Advanced Clothing, Textile, and Apparel</u></b> ½ credit	840210	<i>Prerequisites:</i> Family Clothing: Clothing 1 (840110)  <i>Description:</i> 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.
<b>Housing, Interiors, and Furnishings</b>		
<b><u>Interior Design 1</u></b> ½ credit	 840910	<i>Prerequisites:</i> None  <i>Description:</i> This course provides a basic understanding of housing as it relates to individuals, families, and communities. A study of basic house styles, architectural terms, and the principles of interior design are included. Students learn the decision-making skills and knowledge necessary for obtaining housing and home furnishings.
<b><u>Interior Design 2</u></b> ½ credit	 841010	<i>Prerequisites:</i> Interior Design 1 (840910)  <i>Description:</i> 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 opportunities 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.
<b>Health Services</b>		
<b><u>Exploring Health Occupations</u></b> ½ credit	850110	<i>Prerequisites:</i> None  <i>Description:</i> Students will learn about career opportunities in the health care field. Education requirements for job entry, opportunities for advancement, and career maintenance will also be explored. Exposure to the health care field will be provided through audio-visual materials, guest speakers, and research.
<b><u>Introduction to Medical Terminology</u></b> ½ credit	850210	<i>Prerequisites:</i> None  <i>Description:</i> This course is available for grades 10, 11, and 12 and provides students with a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots, and abbreviations. By relating terms to diagnostic tests and procedures, students identify proper use of words in a medical environment. Knowledge of medical

		terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care. Those students interested in taking Anatomy and Physiology or who are considering a career in the health field will find this course useful.
<u><b>Medical Terminology</b></u> 3/4 credit	 859210	<i>Prerequisites:</i> None  <i>Description:</i> 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.  Transcripted with Gateway Technical College  Indian Trail Academy only
<u><b>Certified Nursing Assistant</b></u> 3/4 credit	 859310	<i>Prerequisites:</i> None  <i>Description:</i> This course prepares students to perform basic supportive skills in caring for patients in various health care settings. This class provides classroom and laboratory instruction and clinical experience in a nursing home or hospital. Graduates are awarded a certificate upon passing the state test and are placed on the Wisconsin Nurse Aide Registry. Certified Nursing Assistant fulfills a prerequisite for Gateway Technical College nursing programs. Taught as a <u>contracted services</u> class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion. Applications are available from your counselor. Students must have an ACT reading score of at least 15. Students may take the Accuplacer Reading Test at Gateway Technical College and have a score of at least 237 to qualify for the program. This course is open to all students, but classes are held at Tremper High School and Indian Trail High School and Academy.



# TECHNOLOGY AND ENGINEERING

<b>COURSES</b>		
<p><b><u>Introduction to Tech Ed</u></b> ½ credit</p>	860010	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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. Students will work individually and in groups while learning aspects of home maintenance, wood-working, manufacturing, automotive maintenance, 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.</p>
<p><b><u>Computer-Aided Design 2</u></b> ½ credit</p>	860210	<p> <i>Prerequisites:</i> Computer-Aided Design: Beginning (860911 and 860912) and concurrent enrollment in Geometry (321011 and 321012)</p> <p><i>Description:</i> 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; sections, threads, and fasteners; tolerancing and dimensioning; and an introduction to three-dimensional CAD drawings. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.</p>
<p><b><u>Construction Planning</u></b> ½ credit</p>	860310	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Students will develop knowledge, skills, and attitudes about designing a residential structure. Functions of a contractor and the services of an architect will be reviewed. Students will draft their designs via an industrial standard AutoCAD. This course will serve as an excellent introduction to architecture.</p>
<p><b><u>Construction Systems 1</u></b> 1 credit</p>	860411 860412	<p><i>Prerequisites:</i> None</p>



		<p><i>Description:</i> 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 week-long building skills labs that introduce students to many phases of residential 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.</p>
<p><b><u>Construction Systems 2</u></b> 1 credit</p>	<p>860511 860512</p>	<p><i>Prerequisites:</i> Construction Systems 1 (860411 and 860412)</p> <p><i>Description:</i> 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.</p>
<p><b><u>Civil Engineering and Architecture</u></b> 1 credit</p>	 <p>860811 860812</p>	<p><i>Prerequisites:</i> Introduction to Engineering Design (880511 and 880512) or Construction Planning (860310)</p> <p><i>Description:</i> 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. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.</p>



<p><b><u>Civil Engineering and Architecture Honors</u></b>  1 credit</p>	<p>860821 860822</p>	<p><i>Prerequisites:</i> Introduction to Engineering Design (880511 and 880512) or Construction Planning (860310)</p> <p><i>Description:</i> 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 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 credit will be applied to his/her transcript. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.</p>
<p><b><u>Computer-Aided Design: Beginning</u></b>  1 credit</p>	<p>860911 860912</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Students will master the basics of the application of computer-aided design (CAD) to the communications and creation of design solutions. This course is articulated with Gateway's Beginning CAD course and is a prerequisite to CAD 2 and CAD Solids. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.</p>
<p><b><u>Consumer Auto and Car Care</u></b> ½ credit</p>	<p>870210</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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</p>




		motor vehicles as well as in the safe handling and disposal of chemicals found in today's automobile.
<b><u>Automotive Technology 1</u></b> ½ credit	870310	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Automotive Technology 2</u></b> 1 credit	870411 870412	<i>Prerequisites:</i> Automotive Technology 1 (870310)  <i>Description:</i> 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 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.
<b><u>Automotive Collision 1</u></b> 1 credit	870511 870512	<i>Prerequisites:</i> None  <i>Description:</i> This course gives students the fundamental skills in auto collision repair, including 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><u>Small Engine Repair and Maintenance</u></b> ½ credit	870610	<i>Prerequisites:</i> None  <i>Description:</i> 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 reassemble a small gasoline engine.
<b><u>Supermileage Vehicle</u></b> ½ credit	870710Q	<i>Prerequisites:</i> Introduction Design Enginee r—T e c h, Drafting/Electronics/Machining  <i>Description:</i> 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.
<b><u>Auto IT for Transportation</u></b> ½ credit	 877110	<i>Prerequisites:</i> None  <i>Description:</i> This course is available to students in eleventh or twelfth grade. Modern vehicles use on-board computers to control just about every function, from accident avoidance to video navigation. The modern toolbox is not only filled with computer-based tools, it is likely to have a PC on it or in it and is likely to be networked to the rest of the shop and the Internet. Today’s automotive technician needs a thorough understanding of PCs, networks, synchronizing PDAs, and operating systems. This course covers IT topics the modern technician is likely to encounter, such as hardware and software installations; implementing a peer-to-peer network; and troubleshooting hardware, software, and network failures. Taught as a contracted service class at the Horizon Center for Transportation by Gateway Technical College instructors, students also earn two Gateway credits upon successful completion. See your counselor for an application.
<b><u>Auto Service Fundamentals</u></b> ½ credit	 877210	<i>Prerequisites:</i> Auto IT for Transportation (877110)  <i>Description:</i> This automotive course focuses on developing skills in professionalism, safety, and








		the use of basic hand and power tools in accordance with industry standards. Students are introduced to the automotive service industry and learn to use both comprehensive and manufacturer's service information to perform basic under-hood and under-car services. Taught at the Horizon Center for Transportation as a contracted service class by Gateway Technical College instructors, students also earn two Gateway credits upon successful completion. See your counselor for an application.
<u><b>Brake Systems</b></u> 3/4 credit	 879110	<i>Prerequisites:</i> Auto Service Fundamentals (877210)  <i>Description:</i> This automotive course focuses on developing the skills needed to diagnose, service, and repair vehicle braking systems with an introduction to antilock braking systems (ABS). Taught as a contracted service class at the Horizon Center for Transportation by Gateway Technical College instructors, students earn three Gateway credits upon successful completion. See your counselor for an application.
<u><b>Introduction to Design, Engineering, and Technology</b></u> 1 credit	880311 880312	<i>Prerequisites:</i> None  <i>Description:</i> Introduction to Design, Engineering, and Technology centers on the principles of science, technology, engineering, and math (STEM) to explore and solve problems through a formalized design process. Students will work individually and network in groups using hands-on skills to build simple and complex structures using computer science software and hand and power tools.
<u><b>Principles of Engineering</b></u> 1 credit	 880411 880412	<i>Prerequisites:</i> Students should be currently enrolled in college preparatory math and science classes.  <i>Description:</i> 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



		<p>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. This course can also satisfy one Kenosha Unified School District science credit (482111 and 482112). Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.</p>
<p><b><u>Principles of Engineering Honors</u></b> 1 credit</p> 	<p>880421 880422</p>	<p><i>Prerequisites:</i> Students should be currently enrolled in college preparatory math and science classes.</p> <p><i>Description:</i> 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. This course can satisfy one Kenosha Unified School District science credit (482111 and 482112). Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.</p>
<p><b><u>Introduction to Engineering Design</u></b> 1 credit</p> 	<p>880511 880512</p>	<p><i>Prerequisites:</i> Algebra (312011 and 312012)</p> <p><i>Description:</i> 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</p>



			preliminary ideas, design analysis, development, and implementation, which are implemented through class projects. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.
<u><b>Introduction to Engineering Design Honors</b></u> 1 credit		880521 880522	<i>Prerequisites:</i> Algebra (312011 and 312012)  <i>Description:</i> 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. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.
<u><b>Digital Electronics</b></u> 1 credit		880611 880612	<i>Prerequisites:</i> Algebra 1 (312011 and 312012) and concurrent enrollment in Geometry (321011 and 321012 or 322021 and 322022)  <i>Description:</i> 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. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.
<u><b>Digital Electronics Honors</b></u> 1 credit		880621 880622	<i>Prerequisites:</i> Algebra (312011 or 311012) and concurrent enrollment in Geometry (321011 and 322012 or 322021 and 322022)

		<p><i>Description:</i> 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. Students may earn advanced standing at Gateway Technical College if they complete the course with a B or better.</p>
<p><b><u>Manufacturing Process 1</u></b> ½ credit</p>	881010	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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 in this course.</p>
<p><b><u>Manufacturing Process 2</u></b> ½ credit</p>	881110	<p><i>Prerequisites:</i> Manufacturing Process 1 (881010)</p> <p><i>Description:</i> 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 project-oriented, 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 project.</p>
<p><b><u>Introduction to Computer Programming/Robotics</u></b> ½ credit</p>	881210	<p><i>Prerequisites:</i> Computer Applications (820310) or Computer Applications for Information Technology (820111 and 820112)</p>


		<p><i>Description:</i> This course teaches basic programming concepts using the C-Basic and Visual Basic programming languages. This includes flowcharts, logical operations, and module programming. Robotic programming is introduced using Lego and Vex robotic technology. Robot design and construction techniques will also be covered. Part of this class will prepare students for the Lego and Vex robotics competitions</p> <p>LakeView Technology Academy only</p>
<p><b><u>Fundamentals of Engineering</u></b> 1 credit</p> 	<p>881311 881312</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Mechanical Skills for Technicians</u></b> <math>\frac{3}{4}</math> credit</p> 	<p>881510</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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</p>

		<p>contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Introduction to Hydraulics and Pneumatics</u></b> </p> <p>3/4 credit</p>	889210	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Gauging and Quality Control</u></b> </p> <p>3/4 credit</p>	889310	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Computer Aided Design Solids Honors</u></b> </p> <p>1/2 credit</p>	889320	<p><i>Prerequisites:</i> Computer-Aided Design 2 (860210)</p>

		<p><i>Description:</i> 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.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Computer-Assisted Programming/Robotics</u></b>   <math>\frac{3}{4}</math> credit</p>	889410	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course is a hands-on study of computer-integrated manufacturing automation and robotics. Students will program robots to perform material handling operations and to interact with other devices, including conveyor systems, part feeders, and computer numerically controlled machines. This course is taught as a contracted services class by Gateway Technical College instructors. Students earn three Gateway credits upon successful completion.</p> <p>LakeView Technology Academy only</p>
<p><b><u>DC/AC Principles Honors</u></b>   <math>\frac{3}{4}</math> credit</p>	889510	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> DC/AC (Direct Current/Alternating Current) Principles Honors is a fundamental course in electronics that gives students an understanding of current, voltage, resistance, capacitance, inductance, and power. The course provides an excellent foundation for further study in electronics or automation. Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Fundamentals of CNC Machine Application</u></b>  1 credit</p>	889610Q	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course is designed to give students a familiarization with the necessary practices and techniques used to operate computer numerical controlled (CNC) machines. Some of the topics covered include CNC machine</p>

		<p>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.</p> <p>LakeView Technology Academy only</p>
<p><b><u>CNC/CAM Programming</u></b> 3/4 credit</p> 	<p>889710</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course is a study of geometric dimensioning and tolerancing based on ANSI Y 14.5. It stresses the interpretation of geometric tolerances, applying the five categories of feature control: position, form, orientation, run out, and profile. It also covers applying datums, interpreting material condition modifiers, and concepts of fixed and floating fasteners. Measurement procedure and gauging are discussed. This course is taught as a contracted services class by Gateway Technical College instructors. Students earn three Gateway credits upon successful completion.</p> <p>LakeView Technology Academy only</p>
<p><b><u>Computer-Integrated Manufacturing (CIM) Honors</u></b> 1 credit</p> 	<p>889721 889722</p>	<p><i>Prerequisites:</i> Introduction to Engineering Design (880511 and 880512 or 880521 and 880522)</p> <p><i>Description:</i> Students learn robotics concepts and automated manufacturing by creating 3-D designs with modeling software and producing models of their designs. This course is taught as a contracted services class by Gateway Technical College instructors. Students earn four Gateway credits upon successful completion.</p>



		LakeView Technology Academy only
<b><u>CNC Machine Technology</u></b> ¾ credit	889750Q	<i>Prerequisites:</i> None  <i>Description:</i> 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
<b><u>Engineering Design and Development Honors</u></b>  1 credit	889921 889922	<i>Prerequisites:</i> None  <i>Description:</i> This Project Lead the Way course has student teams, guided by mentors, work together to research, design, and construct solutions to engineering problems. Taught as a contracted service class by Gateway Technical College instructors, students earn four Gateway credits upon successful completion of the course.
		LakeView Technology Academy only
<b><u>Communications</u></b> ½ credit	890110	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Graphic Communications</u></b> ½ credit	890210	<i>Prerequisites:</i> Communications (890110)

		<p><i>Description:</i> 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.</p>
<p><b><u>Multimedia Production 1</u></b> 1 credit</p>	<p>890411 890412</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p> <p><i>Indian Trail Academy only</i></p>
<p><b><u>Multimedia Production 2</u></b> 1 credit</p>	<p>890511 890512</p>	<p><i>Prerequisites:</i> Multimedia Production 1</p> <p><i>Description:</i> 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 today. The programs used will relate to website production, computer animation, video editing, audio editing, and publishing.</p> <p><i>Indian Trail Academy only</i></p>

# FINE ARTS

## ART COURSES

COURSES		
<p><b><u>Introduction to High School Art</u></b> 1 credit</p>	<p>510111 510112</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This is an art course open to any freshman student interested in either beginning or continuing their study of art. Students will experiment with a variety of structured experiences in design, drawing, painting, printmaking, ceramics, and sculpture. Students will be introduced to the elements and principles of design, including line, shape, form, space, texture, color and value. Composition, aesthetics, and some art history will also be integrated into this class.</p>
<p><b><u>Introduction to High School Art Honors</u></b> 1 credit</p>	<p>510221 510222</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This is an art course open to any freshman student interested in either beginning or continuing their study of art. Students will experiment with a variety of structured experiences in design, drawing, painting, printmaking, ceramics, and sculpture. Students will be introduced to the elements and principles of design including line, shape, form, space, texture, color, and value. Composition, aesthetics, and some art history will also be integrated into this class. Additional honors requirements as assigned by the teacher are required for this course.</p>
<p><b><u>Fundamentals of Art/Design</u></b> 1 credit</p>	<p>510311 510312</p>	<p><i>Prerequisites:</i> Introduction to High School Art (510111 and 510112 or 510221 and 510222)</p> <p><i>Prerequisites:</i> Reuther—none</p> <p><i>Description:</i> This is an introductory art course open to primarily sophomores, juniors, or seniors interested in exploring the fundamentals of art and design. Students may participate in a variety of structured experiences in drawing, painting, print-making, ceramics, jewelry, sculpture,</p>

		computer graphics, and related art media. Both aesthetics and art history are integrated into each area of study to encourage a broader understanding of art and its relationship to everyday living.
<b><u>Fundamentals of Art/Design Honors</u></b> 1 credit	510421 510422	<i>Prerequisites:</i> None  For grade 9 only—Introduction to High School Art (510111 and 510112 or 510221 and 510222)  <i>Description:</i> This is an introductory art course open to primarily sophomores, juniors, or seniors interested in exploring the fundamentals of art and design. Students may participate in a variety of structured experiences in drawing, painting, printmaking, ceramics, jewelry, sculpture, computer graphics, and related art media. Both aesthetics and art history are integrated into each area of study to encourage a broader understanding of art and its relationship to everyday living. Additional honors requirements as assigned by the teacher are required for this course.
<b><u>Foundations of Design/Drawing</u></b> 1 credit	510511 510512	<i>Prerequisites:</i> None  <i>510512 Prerequisites:</i> Indian Trail Academy only—Communications Academy student  <i>Description:</i> This course is available for grades 9 and 10. This course will introduce 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.
<b><u>Advanced Placement Art History</u></b> 1 credit	511031 511032	<i>Prerequisites:</i> None  <i>Description:</i> Advanced Placement Art History emphasizes understanding works of art within their historical context by examining issues such as politics, class, religion, patronage, audience, gender, function, and ethnicity. Historical periods covered are Early Through Medieval, Renaissance to Present, and Beyond European Artistic Traditions. The course teaches students to understand works of art through both visual and contextual analysis.

<p><b><u>Draw/Paint/Printmaking 1</u></b> 1 credit</p>	<p>520111 520112</p>	<p><i>Prerequisites:</i> Introduction to High School Art (510111 and 510112 or 510221 and 510222)</p> <p><i>Description:</i> This course is available for grades 10 through 12. Draw/Paint/ Printmaking 1 is for disciplined art students who wish to advance their skills in drawing, painting, printmaking, and related 2-D media. This course provides a foundation for students interested in art careers. Students will also study related art history, aesthetics, and methods of critical analysis. Work beyond the normal classroom schedule is required.</p>
<p><b><u>Draw/Paint/Printmaking 1 Honors</u></b> 1 credit</p>	<p>520221 520222</p>	<p><i>Prerequisites:</i> Introduction to High School Art (510111 and 510112 or 510221 and 510222)</p> <p><i>Description:</i> Draw/Paint/Printmaking 1 Honors is for disciplined art students who wish to advance their skills in drawing, painting, printmaking, and related 2-D media. This course provides a foundation for students interested in art careers. Students will also study related art history, aesthetics, and methods of critical analysis. Work beyond the normal classroom schedule is required. Additional honors requirements as assigned by the teacher are required for this course.</p>
<p><b><u>Draw/Paint/Printmaking 2</u></b> 1 credit</p>	<p>520311 520312</p>	<p><i>Prerequisites:</i> Draw/Paint/Printmaking 1 (520111 and 520112 or 520221 and 520222)</p> <p><i>Description:</i> This is a course for the highly disciplined art student who wishes to spend time perfecting the drawing, painting, and printmaking skills developed in Draw/Paint/Printmaking 1. Draw/Paint/Printmaking 2 is a course for students who are preparing for further study or a possible career in art. Students will develop proficiency with a variety of techniques and media and study related art history, aesthetics, and methods of critical analysis. The preparation of a portfolio for application to art schools and scholarships will be encouraged. Portfolio preparation may also be directed toward Advanced Placement Studio Art. Work beyond the normal classroom schedule is required.</p>

<p><b><u>Draw/Paint/Printmaking 2 Honors</u></b> 1 credit</p>	<p>520421 520422</p>	<p><i>Prerequisites:</i> Draw/Paint/Printmaking 1 (520111 and 520112 or 520221 and 520222)</p> <p><i>Description:</i> This is a course for the highly disciplined art student who wishes to spend time perfecting the drawing, painting, and printmaking skills developed in Draw/Paint/ Printmaking 1. Draw/Paint/Printmaking 2 Honors is a course for students who are preparing for further study or a possible career in art. Students will develop proficiency with a variety of techniques and media and study related art history, aesthetics and methods of critical analysis. The preparation of a portfolio for application to art schools and scholarships will be encouraged. Portfolio preparation may also be directed toward Advanced Placement Studio Art. Work beyond the normal classroom schedule is required. Additional honors requirements as assigned by the teacher are required for this course.</p>
<p><b><u>Draw/Paint/Printmaking 3</u></b> 1 credit</p>	<p>520511 520512</p>	<p><i>Prerequisites:</i> Draw/Paint/Printmaking 2 (520311 and 520312 or 520421 and 520422)</p> <p><i>Description:</i> Draw/Paint/Printmaking 3 is designed to provide advanced art students with the opportunity for in-depth study in their field of interest. Students will work on both assigned and teacher-approved independent projects. Students will be required to:</p> <ol style="list-style-type: none"> <li>1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter.</li> <li>2. Do research appropriate for each project.</li> <li>3. Keep a sketchbook of ideas, drawings, and notes from throughout the year.</li> <li>4. Complete the work contracted each term.</li> </ol>

		Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate.
<b><u>Draw/Paint/Printmaking 3 Honors</u></b> 1 credit	520621 520622	<p><i>Prerequisites:</i> Draw/Paint/Printmaking 2 (520311 and 520312 or 520421 and 520422)</p> <p><i>Description:</i> Draw/Paint/Printmaking 3 Honors is designed to provide advanced art students with the opportunity for in-depth study in their field of interest. Students will work on both assigned and teacher-approved independent projects. Students will be required to:</p> <ol style="list-style-type: none"> <li>1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter.</li> <li>2. Do research appropriate for each project.</li> <li>3. Keep a sketchbook of ideas, drawings, and notes from throughout the year.</li> <li>4. Complete the work contracted each term.</li> <li>5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate.</li> </ol> <p>Additional honors requirements as assigned by the teacher are required for this course.</p>
<b><u>Advanced Placement Studio Art: Drawing</u></b> 1 credit	520731 520732	<p><i>Prerequisites:</i> Draw/Paint/Printmaking 2 (520311 and 520312 or 520421 and 520422)</p> <p><i>Description:</i> Advanced Placement Studio Art: Drawing is for the highly motivated and disciplined art student who will complete the three required sections of the Advanced Placement Portfolio:</p> <ol style="list-style-type: none"> <li>1. Quality</li> </ol>

		<ol style="list-style-type: none"> <li>2. Concentration (including written commentary), and</li> <li>3. Breadth.</li> </ol> <p>To fulfill these requirements, students will complete 29 to 30 quality works of original art and follow all guidelines and requirements as prescribed by the College Board. The Advanced Placement Studio Art: Drawing course will address a very broad interpretation of drawing issues. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit. Students seeking additional information should contact the art teacher responsible for this class.</p>
<p><b><u>Advanced Placement Studio Art: 2D Design</u></b> 1 credit</p>	<p>520831 520832</p>	<p><i>Prerequisites:</i> Draw/Paint/ Printmaking 2 (520311 and 520312 or 520421 and 520422) or Photography 2 (540311 and 520312 or 540421 and 540422)</p> <p><i>Description:</i> Advanced Placement Studio Art: 2D Design is for the highly motivated and disciplined art student who will complete the three required sections of the Advanced Placement Portfolio:</p> <ol style="list-style-type: none"> <li>1. Quality,</li> <li>2. Concentration (including written commentary), and</li> <li>3. Breadth.</li> </ol> <p>To fulfill these requirements, students will complete 29 to 30 quality works of original art and follow all guidelines and requirements as prescribed by the College Board. The Advanced Placement Studio Art: 2D Design course will address a very broad interpretation of design issues. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit. Students seeking additional information should contact the art teacher responsible for this class.</p>



<p><b><u>Graphic Design and Illustration 1</u></b> 1 credit</p>	<p>520911 520912</p>	<p><i>Prerequisites:</i> Foundations of Design/Drawing (510511 and 510512)</p> <p><i>Description:</i> 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.</p> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Graphic Design and Illustration 2</u></b> 1 credit</p>	<p>521011 521012</p>	<p><i>Prerequisites:</i> Foundations of Design/Drawing (520911 and 520912)</p> <p><i>Description:</i> 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 concentrate on the skills and processes commonly used within the printing and graphic design industries.</p> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Correlations of Design and Graphics</u></b> 1 credit</p>	<p>521111 521112</p>	<p><i>Prerequisites:</i> Indian Trail Academy—Communications Academy student and Graphic Design and Illustration 2</p> <p><i>Description:</i> 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.</p> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Illustration Media Concepts</u></b> 1 credit</p>	<p>521210</p>	<p><i>Prerequisites:</i> None</p>

		<p><i>Description:</i> 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.</p> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Ceramics/Sculpture/</u></b> <b><u>Metals 1</u></b> 1 credit</p>	<p>530111 530112</p>	<p><i>Prerequisites:</i> Introduction to High School Art (510111 and 510112 or 510221 and 510222) or Fundamentals of Art/Design (510311 and 510312 or 510421 and 510422)</p> <p><i>Description:</i> This course emphasizes the three-dimensional arts. Attention is given to the historical origins and aesthetics of ceramics, sculpture, and metals. Ceramic instruction focuses on hand building with an introduction to wheel-thrown forms and clay decoration techniques. Sculpture and metals instruction will emphasize various metal fabrication techniques from inception to completion of the design.</p>
<p><b><u>Ceramics/Sculpture/</u></b> <b><u>Metals 1 Honors</u></b> 1 credit</p>	<p>530221 530222</p>	<p><i>Prerequisites:</i> Introduction to High School Art (510111 and 510112 or 510221 and 510222) or Fundamentals of Art/Design (510311 and 510312 or 510421 and 510422)</p> <p><i>Description:</i> This course emphasizes the three-dimensional arts. Attention is given to the historical origins and aesthetics of ceramic sculpture and metals. Ceramic instruction focuses on hand building with an introduction to wheel-thrown forms and clay decoration techniques. Sculpture and metal instruction will emphasize various fabrication techniques from inception to completion of the design. Additional honors requirements as assigned.</p>

<p><b><u>Ceramics/Sculpture/ Metals 2</u></b> 1 credit</p>	<p>530311 530312</p>	<p><i>Prerequisites:</i> Ceramics/Sculpture/Metals 1 (530111 and 530112 or 530221 and 530222)</p> <p><i>Description:</i> This course is available for grades 10 through 12. Students will have the opportunity to expand upon the basic techniques developed in Ceramics/Sculpture/ Metals 1. Students will perfect their skills in hand building and throwing and be challenged to design and produce more sophisticated forms. In metals students will design and construct more complex and technically involved forms. A high level of craftsmanship and technical achievement in design are qualities looked for in the work of the advanced student. All areas of study will incorporate the elements and principles of design as well as the historical origins.</p>
<p><b><u>Ceramics/Sculpture/ Metals 2 Honors</u></b> 1 credit</p>	<p>530421 530422</p>	<p><i>Prerequisites:</i> Ceramics/Sculpture/Metals 1 (530111 and 530112 or 530221 and 530222)</p> <p><i>Description:</i> This course is available for grades 10 through 12. Students in this class have the opportunity to expand upon the basic techniques developed in Ceramics/Sculpture/Metals 1. Students will perfect their skills in hand building and throwing and be challenged to design and produce more sophisticated forms. In metals students will design and construct more complex and technically involved forms. A high level of craftsmanship and technical achievement in design are qualities looked for in the work of the advanced student. All areas of study will incorporate the elements and principles of design as well as the historical origins. Additional honors requirements as assigned by the teacher are required for this course.</p>
<p><b><u>Ceramic/Sculpture/Metals 3</u></b> 1 credit</p>	<p>530511 530512</p>	<p><i>Prerequisites:</i> Ceramics/Sculpture/Metals 2 (530311 and 530312 or 530421 and 530422)</p> <p><i>Description:</i> This course is available for grades 10 through 12. Ceramics/Sculpture Metals 3 is designed to provide advanced art students with the opportunity for in-depth study in their field of interest. Students will work on both assigned and teacher-approved independent projects. Students will be required to:</p>


		<ol style="list-style-type: none"> <li>1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter.</li> <li>2. Do research appropriate for each project.</li> <li>3. Keep a sketchbook of ideas, drawings, and notes throughout the year.</li> <li>4. Complete the work contracted each term.</li> </ol> <p>Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate.</p>
<p><b><u>Ceramics/Sculpture/</u></b>  <b><u>Metals 3 Honors</u></b>  1 credit</p>	530621 530622	<p><i>Prerequisites:</i> Ceramics/Sculpture/Metals 2 (530311 and 530312 or 530421 and 530422)</p> <p><i>Description:</i> This course is available for grades 11 and 12. Ceramics/Sculpture/ Metals 3 Honors is designed to provide advanced art students with the opportunity for in-depth study in their field of interest. Students will work on both assigned and teacher-approved independent projects. Students will be required to:</p> <ol style="list-style-type: none"> <li>1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter.</li> <li>2. Do research appropriate for each project.</li> <li>3. Keep a sketchbook of ideas, drawings, and notes throughout the year.</li> <li>4. Complete the work contracted each term.</li> <li>5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate.</li> </ol>

		Additional honors requirements as assigned by the teacher are required for this course.
<u><b>Advanced Placement Studio Art: 3-D Design</b></u> 1 credit	530731 530732	<i>Prerequisites:</i> Ceramics/Sculpture/Metals 2 (530311 and 530312 or 530421 and 530422)  <i>Description:</i> This course is available for grades 11 and 12. Advanced Placement Studio Art: 3-D Design is for the highly motivated and disciplined art student who will complete the three required sections of the Advanced Placement Portfolio: <ol style="list-style-type: none"> <li>1. Quality,</li> <li>2. Concentration (including written commentary), and</li> <li>3. Breadth.</li> </ol> To fulfill these requirements, students will complete 15 to 20 quality works of original art and follow all guidelines and requirements as prescribed by the College Board. The Advanced Placement Studio Art: 3-D Design course will address a very broad interpretation of sculptural issues in depth and space. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit. Students seeking additional information should contact the art teacher responsible for this class.
<u><b>Photography 1</b></u> 1 credit	540111 540112	<i>Prerequisites:</i> Introduction to High School Art (510111 and 510112 or 510221 and 510222)  <i>Description:</i> This course is available for grades 10 through 12. Students are introduced to the fundamentals of photography, darkroom techniques*, and computer graphics. Critical analysis and aesthetic awareness are also emphasized. This course provides a foundation for both the serious amateur photographer as well as those students who are interested in a career in visual

\* Darkroom applies to Bradford and Tremper only.

		communications. It is helpful if the student has access to a 35mm camera; however, it is not required.
<b><u>Photography 1 Honors</u></b> 1 credit	540221 540222	<p><i>Prerequisites:</i> Introduction to High School Art (510111 and 510112 or 510221 and 510222)</p> <p><i>Description:</i> This course is available for grades 10 through 12. Students are introduced to the fundamentals of photography, darkroom techniques*, and computer graphics. Critical analysis and aesthetic awareness are also emphasized. This course provides a foundation for both the serious amateur photographer as well as those students who are interested in a career in visual communications. It is helpful if the student has access to a 35mm camera; however, it is not required. Additional honors requirements as assigned by the teacher are required for this course.</p>
<b><u>Photography 2</u></b> 1 credit	540311 540312	<p><i>Prerequisites:</i> Photography 1 (540111 and 540112 or 540221 and 540222)</p> <p><i>Description:</i> This course is available for grades 11 and 12. This course is for the highly motivated student who wishes to improve skills developed in Photography 1. Students in this course will be expected to spend considerable time in the darkroom* perfecting their skills in photography. Activities will include the study of related art history, aesthetics and critical analysis, as well as the preparation of photographic exhibits and advanced work in computer graphics. Students will also have an opportunity to prepare a portfolio applicable for admission to art schools and scholarships. It is recommended, but not required, that the student have a 35mm camera.</p>
<b><u>Photography 2 Honors</u></b> 1 credit	540421 540422	<p><i>Prerequisites:</i> Photography 1 (540111 and 540112 or 540221 and 540222)</p> <p><i>Description:</i> This course is available for grades 11 and 12. This course is for the highly motivated student who wishes to improve skills developed in Photography 1. Students in this course will be expected to spend considerable time in the darkroom* perfecting their skills in photography. Activities will include the study of</p>

		related art history, aesthetics, and critical analysis as well as the preparation of photographic exhibits and advanced work in computer graphics. Students will also have an opportunity to prepare a portfolio applicable for admission to art schools and scholarships. It is recommended, but not required, that the students have a 35mm camera. Additional honors requirements as assigned by the teacher are required for this course.
<b><u>Photography 3</u></b> 1 credit	540511 540512	<p><i>Prerequisites:</i> Photography 2 (540311 and 540312 or 540421 and 540422)</p> <p><i>Description:</i> This course is available for grades 11 and 12. Photography 3 is designed to provide advanced art students with the opportunity for in-depth study in their field of interest. Students will work on both assigned and teacher-approved independent projects. Students will be required to:</p> <ol style="list-style-type: none"> <li>1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter.</li> <li>2. Do research appropriate for each project. (Students are required to purchase enlarging paper and film.)</li> <li>3. Keep a portfolio of ideas, images, and notes throughout the year.</li> <li>4. Complete the work contracted each term.</li> <li>5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate.</li> </ol>
<b><u>Photography 3 Honors</u></b> 1 credit	540621 540622	<p><i>Prerequisites:</i> Photography 2 (540311 and 540312 or 540421 and 540422)</p> <p><i>Description:</i> This course is available for grades 11 and 12. Photography 3 Honors is designed to provide advanced art students with the opportunity for in-depth study in their field of</p>

		<p>interest. Students will work on both assigned and teacher-approved independent projects. Students will be required to:</p> <ol style="list-style-type: none"> <li>1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter.</li> <li>2. Do research appropriate for each project. (Students are required to purchase enlarging paper and film.)</li> <li>3. Keep a portfolio of ideas, images, and notes throughout the year.</li> <li>4. Complete the work contracted each term.</li> <li>5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate.</li> </ol> <p>Additional honors requirements as assigned by the teacher are required for this course.</p>
<p><b><u>Intro to Digital Photography</u></b> 1 credit</p>	 <p>540711 540712</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course explores the use of digital photography, desktop scanning, and photo manipulation software in the creation of photo compositions and support materials for graphic design.</p>



# MUSIC COURSES

COURSES		
<p><b><u>Concert Band</u></b> 1 credit</p>	<p>550311 550322</p>	<p><i>Prerequisites:</i> Previous instrumental experience</p> <p><i>Description:</i> 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.</p>
<p><b><u>Concert Band Honors</u></b> 1 credit</p>	<p>550421 550422</p>	<p><i>Prerequisites:</i> Previous instrumental experience</p> <p><i>Description:</i> 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.</p>
<p><b><u>Symphonic Band</u></b> 1 credit</p>	<p>550511 550512</p>	<p><i>Prerequisites:</i> Previous instrumental experience</p> <p><i>Description:</i> 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</p>

		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.
<b><u>Symphonic Band Honors</u></b> 1 credit	550621 550622	<i>Prerequisites:</i> Previous instrumental experience  <i>Description:</i> 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.
<b><u>Wind Ensemble</u></b> 1 credit	550911 550912	<i>Prerequisites:</i> Audition  <i>Description:</i> 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.
<b><u>Wind Ensemble Honors</u></b> 1 credit	551021 551022	<i>Prerequisite:</i> Audition  <i>Description:</i> 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.
<b><u>Jazz Ensemble</u></b> 0 credits	551111 551112	<i>Prerequisites:</i> Previous enrollment in music program  <i>Description:</i> 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.) This course may be taken multiple times.
<b><u>Treble Choir</u></b> 1 credit	560111 560112	<i>Prerequisites:</i> Prior singing experience is helpful. Females only  <i>Description:</i> Treble Choir is an organization of female 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.
<b><u>Treble Choir Honors</u></b> 1 credit	560221 560222	<i>Prerequisites:</i> Prior singing experience is helpful. Females only  <i>Description:</i> Treble Choir Honors is an organization of female 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. 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.
<b><u>Concert Choir</u></b> 1 credit	560311 560312	<i>Prerequisites:</i> None  <i>Description:</i> Members of this choir will deal with four-part (SATB) literature. 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.
<b><u>Concert Choir Honors</u></b> 1 credit	560421 560422	<i>Prerequisites:</i> None  <i>Description:</i> Members of this choir will deal with four-part (SATB) literature. 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. 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.
<b><u>A Cappella Choir</u></b> 1 credit	560911 560912	<i>Prerequisites:</i> Audition

		<p><i>Description:</i> 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.</p>
<p><b><u>A Cappella Choir Honors</u></b> 1 credit</p>	<p>561021 561022</p>	<p><i>Prerequisites:</i> Audition</p> <p><i>Description:</i> 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 development 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 multiple times.</p>
<p><b><u>Chorale</u></b> 1 credit</p>	<p>561111 561112</p>	<p><i>Prerequisites:</i> Audition</p> <p><i>Description:</i> 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 continuing process of vocal training, ear training, presentation of information regarding the historical periods of music compositions and composers, and through the preparation and</p>

		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.
<b><u>Chorale Honors</u></b> 1 credit	561221 561222	<i>Prerequisites:</i> Audition  <i>Description:</i> Chorale Honors 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 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. 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.
<b><u>Madrigal Singers</u></b> 0 credits	561510	<i>Prerequisites:</i> Previous enrollment in music program and audition  <i>Description:</i> 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.
<b><u>Concert Orchestra</u></b> 1 credit	570111 570112	<i>Prerequisites:</i> Experience on string instruments  <i>Description:</i> 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.
<b><u>Concert Orchestra Honors</u></b> 1 credit	570221 570222	<i>Prerequisites:</i> Previous experience on string instruments  <i>Description:</i> 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.
<b><u>Symphony Orchestra</u></b> 1 credit	570311 570312	<i>Prerequisites:</i> Audition  <i>Description:</i> Symphony Orchestra membership includes select wind and percussion instrumentalists 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 performances at civic, state, and national conventions; and clinical presentations by invitation, convocation, and commencement. Performance responsibilities include participation at all concerts, rehearsals, and sectionals and responsible preparation of the music. This course may be taken multiple times.

<p><b><u>Symphony Orchestra Honors</u></b> 1 credit</p>	<p>570421 570422</p>	<p><i>Prerequisites:</i> Audition</p> <p><i>Description:</i> Symphony Orchestra Honors membership includes select wind and percussion instrumentalists 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 performances at civic, state, and national conventions; and clinical presentations by invitation, convocation, and commencement. 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. This course may be taken multiple times.</p>
<p><b><u>Chamber Orchestra</u></b> 0 credits</p>	<p>570510</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Participation in Chamber Orchestra is only offered to students already enrolled in the 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 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.</p>
<p><b><u>Alternative Strings</u></b> 0 credits</p>	<p>570610</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Participation in the Alternative Strings is only offered to students already enrolled in the music program. Students will be</p>



		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 develop musical 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.
<b><u>Golden Strings</u></b> 0 credits	570710	<i>Prerequisites:</i> Tremper  <i>Description:</i> 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.
<b><u>Music: A Listener's Survey</u></b> ½ credit	570810	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Music Theory Honors</u></b> 1 credit	570921 570922	<i>Prerequisites:</i> None  <i>Description:</i> This course is available for grades 10 through 12. Music Theory is an academic music course which is designed to develop

		<p>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.</p>
<p><b><u>Advanced Placement Music Theory</u></b> 1 credit</p>	<p>570931 570932</p>	<p><i>Prerequisites:</i> Music Theory</p> <p><i>Description:</i> 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 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.</p>
<p><b><u>Roots/Blues Guitar</u></b> 1 credit</p>	<p>571011 571012</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Intro to Digital Composition</u></b> ½ credit</p>	<p>571210</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> The composition section of the course will explore four key elements of music: melody, harmony, form, and style. This will be</p>

		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.
<b><u>Digital Composition</u></b> ½ credit	571211 571212	<i>Prerequisites:</i> Intro to Digital Composition (571210)  <i>Description:</i> The intermediate composition section of the course will continue to deepen 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.
<b><u>Intro to Recording Technology</u></b> ½ credit	571410	<i>Prerequisites:</i> Intro to Digital Composition (571210) and Digital Composition (571211 and 571212)  <i>Description:</i> The students will build on skills learned in the previous two courses to develop expertise in live recording situations and mixing.
<b><u>Recording Technology</u></b> ½ credit	571511 571512	<i>Prerequisites:</i> Intro to Recording Technology (571410), Introduction to Digital Composition (571210), and Digital Composition (571211 and 571212)  <i>Description:</i> The students will build on the live recording and mixing learned in the previous course to create a final refined product.
<b><u>Intro to Guitar Studies</u></b> ½ credit	571610	<i>Prerequisites:</i> None  <i>Description:</i> This course will introduce the history and methods of playing the drums and of the instrument itself. This beginner level course will focus on technique, reading basic rhythms, and learning how and what to listen for while participating 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.
<b><u>Guitar Studies 1</u></b> ½ credit	571711 571712	<i>Prerequisites:</i> Intro to Guitar Studies (571610)

		<p><i>Description:</i> For the intermediate guitarist, this course will emphasize exercises concerning major and minor scales, common chord progressions, and improvisational techniques. Students may repeat this course.</p>
<p><b><u>Guitar Studies 2</u></b> ½ credit</p>	<p>571811 571812</p>	<p><i>Prerequisites:</i> Guitar Studies 1 (571711 and 571712)</p> <p><i>Description:</i> This advanced level course will continue 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.</p>
<p><b><u>Intro to World Drumming</u></b> ½ credit</p>	<p>571910</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course will introduce the history and methods of playing the drums and of the instrument itself. This beginner level course will focus on technique, reading basic rhythms, and learning how and what to listen for while participating 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.</p>
<p><b><u>World Drumming 1</u></b> ½ credit</p>	<p>572011 572012</p>	<p><i>Prerequisites:</i> Intro to World Drumming (571910)</p> <p><i>Description:</i> For the intermediate drumming student, this course will continue 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.</p>
<p><b><u>World Drumming 2</u></b> ½ credit</p>	<p>572111 572112</p>	<p><i>Prerequisites:</i> World Drumming 2 (572111 and 572112)</p> <p><i>Description:</i> For the advanced drumming student, this course will deepen 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.</p>

# THEATRE ARTS COURSES

COURSES		
<p><b><u>Drama 1</u></b> ½ credit</p>	580110	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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, improvisation and play analysis.</p>
<p><b><u>Drama 2</u></b> ½ credit</p>	580210	<p><i>Prerequisites:</i> Drama 1 (580110)</p> <p><i>Description:</i> This class will focus more intensely on drama as a performance art. Students will study well-known theories and techniques of acting, learn various applications for stage make-up, 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.</p>
<p><b><u>Drama 3</u></b> ½ credit</p>	580310	<p><i>Prerequisites:</i> Drama 2 (580210)</p> <p><i>Description:</i> Drama 3 will focus 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.</p>
<p><b><u>Acting 1</u></b> 1 credit</p>	580411 580412	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This will be a four-year course that will serve 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 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</p>

		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.
<b><u>Acting 1 Honors</u></b> 1 credit	580521 580522	<i>Prerequisites:</i> None  <i>Description:</i> Acting 1 Honors will be a four-year course that will serve 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 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.
<b><u>Acting 2</u></b> 1 credit	580611 580612	<i>Prerequisites:</i> Acting 1 (580411 or 580412 or 580521 and 580522)  <i>Description:</i> This course is available for grades 10 through 12. Students will 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.
<b><u>Acting 2 Honors</u></b> 1 credit	580721 580722	<i>Prerequisites:</i> Acting 1 (580411 and 580412 or 580521 and 580522)  <i>Description:</i> 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 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.
<b><u>Theatre Practicum</u></b> 1 credit	581011 581012	<i>Prerequisites:</i> All students will audition for placement.  <i>Description:</i> Students will study a variety of theatre and musical theatre literature. The class will culminate with a full performance of a complete work for the stage. This course may be taken multiple times.
<b><u>Theatre Practicum Honors</u></b> 1 credit	581121 581122	<i>Prerequisites:</i> All students will audition for placement.  <i>Description:</i> Theater Practicum Honors students will study a variety of theater and musical theater literature. The class will culminate 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.
<b><u>Musical Theatre Vocal Techniques</u></b> 1 credit	581211 581212	<i>Prerequisites:</i> None  <i>Description:</i> Students will learn speech and singing techniques through the study of vocal anatomy, diction, breathing, and placement.
<b><u>Musical Theatre Vocal Techniques Honors</u></b> 1 credit	581321 581322	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Stagecraft 1</u></b> 1 credit	581411 581412	<i>Prerequisites:</i> None  <i>Description:</i> 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.

<p><b><u>Stagecraft 2</u></b> 1 credit</p>	<p>581511 581512</p>	<p><i>Prerequisites:</i> Stagecraft 1 (581411 and 581412)</p> <p><i>Description:</i> 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.</p>
<p><b><u>Stagecraft 2 Honors</u></b> 1 credit</p>	<p>581621 581622</p>	<p><i>Prerequisites:</i> Stagecraft 1 (581411 and 581412)</p> <p><i>Description:</i> 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.</p>
<p><b><u>Scenic Design</u></b> 1 credit</p>	<p>581711 581712</p>	<p><i>Prerequisites:</i> Stagecraft 1 (581411 and 581412)</p> <p><i>Description:</i> This course is available for grades 10 through 12. Students will be 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.</p>
<p><b><u>Scenic Design Honors</u></b> 1 credit</p>	<p>581821 581822</p>	<p><i>Prerequisites:</i> Stagecraft 1 (581411 and 581412)</p> <p><i>Description:</i> This course is available for grades 10 through 12. Scenic Design Honors students will be 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. Additional honors requirements as assigned by the teacher are required for this course. This course may be taken multiple times.</p>



<p><b><u>Stage Management Practicum</u></b> 1 credit</p>	<p>581911 581912</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
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## DANCE COURSES

COURSES		
<p><b><u>Introduction to Dance</u></b> 1 or 2 credits</p>	<p>590111 590112</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This dance level class will focus on developing the inexperienced dancer in several areas. The technical focus on:</p> <ol style="list-style-type: none"> <li>1. Ballet               <ol style="list-style-type: none"> <li>A. Alignment,</li> <li>B. Verticality, and</li> <li>C. Basic ballet movements;</li> </ol> </li> <li>2. Modern               <ol style="list-style-type: none"> <li>A. Basic movement and</li> <li>B. Basic form; and</li> </ol> </li> <li>3. Jazz               <ol style="list-style-type: none"> <li>A. Basic percussive style and</li> <li>B. Basic lyrical jazz style.</li> </ol> </li> </ol> <p>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.</p>
<p><b><u>Dance 2</u></b> 1 or 2 credits</p>	<p>590211 590212</p>	<p><i>Prerequisites:</i> Introduction to Dance (590111 and 590112)</p> <p><i>Description:</i> 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</p>

		well as performance presentation. This course does not meet physical education requirements.
<b><u>Dance 3</u></b> 1 or 2 credits	590311 590312	<p><i>Prerequisites:</i> Audition</p> <p><i>Description:</i> 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, execution 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 professionally. This course does not meet physical education requirements.</p>

# 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		
<p><b><u>Physical Education Foundations</u></b> ½ credit</p>	611010	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Lifetime Fitness</u></b> ½ credit</p>	610210	<p><i>Prerequisites:</i> Physical Education Foundations (611010)</p> <p><i>Description:</i> 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.</p>
<p><b><u>Lifetime Fitness Elective</u></b> ½ elective credit</p>	632010	<p><i>Prerequisites:</i> Graduation requirements in physical education must be completed to take this course.</p> <p><i>Description:</i> Lifetime Fitness class will teach students fitness and the importance of fitness</p>

		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.
<b><u>Active Lifestyles</u></b> ½ credit	613010	<i>Prerequisite:</i> Physical Education Foundations (611010)  <i>Description:</i> 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.
<b><u>Active Lifestyles Elective</u></b> ½ elective credit	633010	<i>Prerequisites:</i> Graduation requirements in physical education must be completed to take this course.  <i>Description:</i> 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.
<b><u>Personal Fitness</u></b> ½ credit	614010	<i>Prerequisites:</i> Physical Education Foundations (611010)  <i>Description:</i> 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.
<b><u>Personal Fitness Elective</u></b> ½ elective credit	634010	<i>Prerequisites:</i> Graduation requirements in physical education must be completed to take this course.  <i>Description:</i> 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.
<b><u>Health Education</u></b> ½ credit	620110	<i>Prerequisites:</i> None  <i>Description:</i> 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><u>Physical Education:</u></b> <b><u>Specially Designed</u></b> ½ credit	664119	<i>Prerequisites:</i> None  <i>Description:</i> This co-ed course fulfills a half-credit graduation requirement. Registration for this course is IEP driven.

# ENGLISH/LANGUAGE ARTS

COURSES		
<p><b><u>Survey of Literature/Composition</u></b> 1 credit</p>	<p>121011 121012</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Survey of Literature/Composition Honors</u></b> 1 credit</p>	<p>121021 121022</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>World Literature/Composition</u></b> 1 credit</p>	<p>122011 122012</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>World Literature/Composition Honors</u></b> 1 credit</p>	<p>122021 122022</p>	<p><i>Prerequisites:</i> None</p>

		<p><i>Description:</i> 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 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.</p>
<p><b><u>American Literature/Composition</u></b> 1 credit</p>	<p>123011 123012</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>American Literature/Composition Honors</u></b> 1 credit</p>	<p>123021 123022</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Advanced Placement English Literature and Composition</u></b> 1 credit</p>	<p>124031 124032</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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</p>



		successfully complete this class and take the Advanced Placement Examination to potentially earn college credit.
<b><u>Advanced Placement English Language and Composition</u></b> 1 credit	125031 125032	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Diverse Perspectives in Literature and Composition</u></b> 1 credit	131011 131012	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Diverse Perspectives in Literature and Composition Honors</u></b> 1 credit	131021 131022	<i>Prerequisites:</i> None  <i>Description:</i> This course develops critical thinking and effective writing skills and strategies. 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 wide range of purposes and in a variety of modes.
<b><u>Journalism2</u></b> 1 credit	162011 162012	<i>Prerequisites:</i> Journalism 1 (171010)  <i>Description:</i> Students will experience all aspects of producing a school newspaper from assignment to circulation. Students will learn

		photo, art, and layout skills along with advertising. The paper is produced on a Macintosh, so computer skills will be enhanced.
<b><u>Journalism 2 Honors</u></b> 1 credit	162021 162022	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Journalism 1</u></b> ½ credit	171010	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>School Newspaper</u></b> 1 credit	172011 172012	<i>Prerequisites:</i> None  <i>Description:</i> This course is offered for elective credit only. School Newspaper is a course focusing on the production of the school newspaper. Students will use the writing process, conduct interview, and refine research skills. Students will also develop skills in layout and design, production responsibilities, and cooperative learning.
<b><u>School Newspaper Honors</u></b> ½ credit	172020	<i>Prerequisites:</i> None  <i>Description:</i> 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 process, conduct interviews, and refine research skills. Students will also develop skills in layout and design, production responsibilities, and cooperative learning.
<b><u>Yearbook</u></b> 1 credit	173011 173012	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Yearbook Honors</u></b> 1 credit	173021 173022	<i>Prerequisites:</i> None  <i>Description:</i> 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 beyond 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 assessment and evaluation by the instructor to gain honors credit.
<b><u>Digital Publication Design</u></b> 1 credit	174011 174012	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Digital Publication Design Honors</u></b> 1 credit	174021 174022	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>The Pulse Online Newspaper Internship</u></b> 1 credit	898111 898112	<i>Prerequisites:</i> None  <i>Description:</i> 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 <i>The Pulse</i> .  <b>Indian Trail Academy only</b>
<b><u>The Pulse Honors</u></b> ½ credit	172012	<i>Prerequisites:</i> None  <i>Description:</i> 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> .  <b>Indian Trail Academy only</b>

# MATHEMATICS

## REGISTRATION GUIDELINES

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

GRADE	STANDARD PATHWAY	ACCELERATED PATHWAY*
9	Algebra 1	Geometry OR Geometry Honors
10	Geometry OR Geometry Honors	Algebra 2 OR Algebra 2/Trigonometry Honors OR Math Applications
11	Algebra 2 OR Algebra 2/Trigonometry Honors OR Math Applications	<u>Choose from:</u> Precalculus Precalculus Honors Advanced Placement Statistics Probability and Statistics (1/2 credit) Trigonometry (1/2 credit)
12	<u>Choose from:</u> Precalculus Precalculus Honors Advanced Placement Statistics Probability and Statistics (1/2 credit) Trigonometry (1/2 credit)	<u>Choose from:</u> Advanced Placement Calculus AB  Advanced Placement Calculus BC (2 credits)  Advanced Placement Statistics

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

COURSES		
<b><u>Algebra 1</u></b> 1 credit	312011 312012	<i>Prerequisites:</i> None  <i>Description:</i> Algebra 1 formalizes and extends the mathematics that students learned in the middle grades. Students will deepen and extend their understanding of linear, quadratic, and exponential 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 ability to make sense of problem situations.
<b><u>Geometry</u></b> 1 credit	321011 321012	<i>Prerequisites:</i> Algebra 1 (312011 and 312012)  <i>Description:</i> 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 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 mathematical experience that makes use of their ability to make sense of problem situations.
<b><u>Geometry Honors</u></b> 1 credit	322021 322022	<i>Prerequisites:</i> Algebra 1 (312011 and 312012)  <i>Description:</i> 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 complex 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 mathematical experience that makes use of their ability to make sense of problem situations.
<b><u>Math Applications</u></b> 1 credit	330511 330512	<i>Prerequisites:</i> Geometry (321011 and 321012)  <i>Description:</i> Math Applications focuses on the practical skills needed in a wide variety of everyday situations. Students use direct, practical approaches that emphasize careful, complete explanations and applications. The use of calculators as a necessary tool allows students to solve real-world problems while focusing on the concept and reasonableness of the answer. This course may not fulfill requirements for admission to a four-year state university.
<b><u>Algebra 2</u></b> 1 credit	331011 331012	<i>Prerequisites:</i> Geometry (321011 and 321012) or Geometry Honors (322021 and 322022)  <i>Description:</i> 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.
<b><u>Algebra 2/Trigonometry Honors</u></b> 1 credit	332021 332022	<i>Prerequisites:</i> Geometry (321011 and 321012)  <i>Description:</i> 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.
<b><u>Probability and Statistics</u></b> ½ credit	341010	<i>Prerequisites:</i> Algebra 2 (331011 and 331012) or Algebra 2/Trigonometry (332021 or 332022)  <i>Description:</i> This course introduces students to the basics of statistical testing. Students learn to organize, display, and analyze data and to explore the elements of probability. This course is a good foundation for Advanced Placement Statistics.
<b><u>Trigonometry</u></b> ½ credit	342010	<i>Prerequisites:</i> Algebra 2 (331011 and 331012) or Algebra 2/Trigonometry (332021 or 332022)

		<p><i>Description:</i> This course prepares students for further studies in mathematics or for work in technical fields. Students learn the six trigonometric functions and demonstrate their use in the identities, inverse functions, and radian measures, and special triangles. This course is a good foundation for Precalculus.</p>
<p><b><u>Advanced Placement Statistics</u></b> 1 credit</p>	<p>343031 343032</p>	<p><i>Prerequisites:</i> Algebra 2 (331011 and 331012) or Algebra 2/ Trigonometry (332021 or 332022)</p> <p><i>Description:</i> 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 patterns, and 4) statistical inference. Students work on projects involving the hands-on gathering and analysis of real-world data. Ideas and computations 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.</p>
<p><b><u>Precalculus</u></b> 1 credit</p>	<p>351011 351012</p>	<p><i>Prerequisites:</i> Algebra 2 (331011 and 331012) or Algebra 2/Trigonometry (332021 or 332022)</p> <p><i>Description:</i> 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.</p>
<p><b><u>Precalculus Honors</u></b> 1 credit</p>	<p>352021 352022</p>	<p><i>Prerequisites:</i> Algebra 2/Trigonometry Honors (332021 and 332022) or Algebra 2 (331011 and 331012)</p> <p><i>Description:</i> Precalculus extends the mathematical concepts and skills studied in</p>



		Algebra 2/Trigonometry to prepare students for calculus. In addition to an in-depth study of functions and their inverses, this course includes the study of complex number systems, vector quantities, matrices, sequences and series, limits, and derivatives. 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.
<b><u>Advanced Placement Calculus AB</u></b> 1 credit	353031 353032	<p><i>Prerequisites:</i> Precalculus (351011 and 351012)</p> <p><i>Description:</i> This course is equivalent to a first semester college calculus course. It follows the College Board Advanced Placement Calculus course outline. It includes:</p> <ul style="list-style-type: none"> <li>• Functions,</li> <li>• Use of graphs,</li> <li>• Derivatives and their applications,</li> <li>• Differentials,</li> <li>• Limits,</li> <li>• Integrals and their applications, and</li> <li>• Differential equations.</li> </ul> <p>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.</p>
<b><u>Advanced Placement Calculus BC</u></b> 2 credits	354031 354032 354033 354034	<p><i>Prerequisites:</i> Precalculus (351011 and 351012)</p> <p><i>Description:</i> 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</p>

		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.
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# SCIENCE

## REGISTRATION GUIDELINES

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

<b>Grade 9</b>	One of the following is required: <ul style="list-style-type: none"> <li>• Biology</li> <li>• Biology Honors</li> <li>• Equivalent course at choice and charter schools</li> </ul>
<b>Grade 10</b>	One of the following is recommended: <ul style="list-style-type: none"> <li>• Chemistry</li> <li>• Chemistry Honors</li> <li>• Matter and Energy</li> <li>• Equivalent course at choice and charter schools</li> </ul>
<b>Grade 11</b>	One of the following is recommended: <ul style="list-style-type: none"> <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.

<b>OPTIONS FOR A FOURTH SCIENCE COURSE</b>	
<p><b><u>One Credit</u></b></p> <ul style="list-style-type: none"> <li>• Anatomy and Physiology Honors</li> <li>• Human Biology</li> <li>• Astronomy</li> <li>• Geology Honors</li> <li>• Ecology</li> </ul>	<p><b><u>One-Half Credit</u></b></p> <p>Forensics</p>
<p><b><u>Two-Credit Advanced Placement Courses</u></b></p> <ul style="list-style-type: none"> <li>• Advanced Placement Biology <ul style="list-style-type: none"> <li>○ College Board-recommended prerequisites: <ul style="list-style-type: none"> <li>▪ Biology</li> <li>▪ Chemistry</li> </ul> </li> <li>○ Concurrent or previous enrollment in Advanced Placement Statistics enhances the Advanced Placement Biology experience.</li> </ul> </li> <li>• Advanced Placement Chemistry <ul style="list-style-type: none"> <li>○ College Board-recommended prerequisites: <ul style="list-style-type: none"> <li>▪ Chemistry</li> <li>▪ Algebra 2</li> </ul> </li> </ul> </li> </ul>	<p><b><u>One-Credit Advanced Placement Courses</u></b></p> <ul style="list-style-type: none"> <li>• Advanced Placement Physics 1 <ul style="list-style-type: none"> <li>○ College Board-recommended prerequisites: <ul style="list-style-type: none"> <li>▪ Geometry and concurrent enrollment in Algebra 2</li> </ul> </li> </ul> </li> <li>• Advanced Placement Physics 2 <ul style="list-style-type: none"> <li>○ College Board prerequisite: <ul style="list-style-type: none"> <li>▪ Advanced Placement Physics 1</li> </ul> </li> </ul> </li> <li>• Advanced Placement Physics C: Mechanics <ul style="list-style-type: none"> <li>○ College Board recommendation: <ul style="list-style-type: none"> <li>▪ Previous or concurrent enrollment in Advanced Placement Calculus BC</li> </ul> </li> </ul> </li> <li>• Advanced Placement Environmental Science <ul style="list-style-type: none"> <li>○ College Board-recommended prerequisites: <ul style="list-style-type: none"> <li>▪ Biology</li> <li>▪ Chemistry</li> <li>▪ Algebra 1</li> </ul> </li> </ul> </li> </ul>

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

<b>COURSES</b>		
<p><b><u>Lab Tech and Equipment</u></b> 1 credit</p>	<p>411511 411512</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p> <p style="text-align: center;"><b>Indian Trail Academy only</b></p>
<p><b><u>Lab Tech for Biomedical Engineering</u></b> 1 credit</p>	<p>411611 411612</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Biotechnology</u></b> 1 credit</p>	<p>411811 411812</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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 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. Concepts of biology will be explored with a focus on the technology used to enhance biological investigations.</p>
<p><b><u>Biotechnology Honors</u></b> 1 credit</p>	<p>411821 411822</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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 guidance, to enroll in Biotechnology Honors. In this course students will develop understandings of</p>

		<p>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. Concepts of biology will be studied with a focus on technology used to enhance 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 Biotechnology students. Biotechnology Honors students are required to do supplementary projects, which may include a science fair project.</p>
<p><b><u>Biology</u></b> 1 credit</p>	<p>421011 421012</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Biology Honors</u></b> 1 credit</p>	<p>421021 421022</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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</p>

		<p>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.</p>
<p><b><u>Accelerated Biology</u></b> 1 credit</p>	<p>421111 421112</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Accelerated Biology is taught in the Indian Trail academies. Course content is similar to 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. Instruction in Accelerated Biology emphasizes in-depth critical thinking and independent work.</p> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Human Biology</u></b> 1 credit</p>	<p>422011 422012</p>	<p><i>Prerequisites:</i> Biology and Chemistry or Biology and Matter and Energy</p> <p><i>Description:</i> In this course students will focus on the cell, reproduction, development, and the body 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.</p> <p><b>Note:</b> Not open to students who have earned credit in Human Anatomy and Physiology</p>
<p><b><u>Animal Survey</u></b> 1 credit</p>	<p>422111 422112</p>	<p><i>Prerequisites:</i> Biology</p>

		<p><i>Description:</i> 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.</p> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Forensic Science</u></b> ½ credit</p>	422210	<p><i>Prerequisites:</i> Biology and Chemistry or Biology and Matter and Energy</p> <p><i>Description:</i> 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.</p>
<p><b><u>Genetics</u></b> ½ credit</p>	423110	<p><i>Prerequisites:</i> Biology, Ecology, and Animal Behavior</p> <p><i>Description:</i> This is a branch of biology that deals with heredity and the variation of organisms. Areas of study will include:</p> <ul style="list-style-type: none"> <li>• Cell division,</li> <li>• Mitosis,</li> <li>• Meiosis,</li> <li>• Dominant and recessive genes,</li> <li>• Hybridization,</li> <li>• Mutation,</li> <li>• Inherited diseases,</li> <li>• DNA molecular patterns,</li> <li>• RNA, Protein synthesis,</li> <li>• Expression of traits, and</li> <li>• Methods of analysis.</li> </ul> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Human Anatomy and Physiology</u></b> 1 credit</p>	423211 423212	<p><i>Prerequisites:</i> Biology and Chemistry</p> <p><i>Description:</i> This class highlights the systems that make up the human body: circulatory, respiratory, digestive, reproductive, muscular,</p>

		<p>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.</p> <p><i>Indian Trail Academy only</i></p>
<p><b><u>Human Anatomy and Physiology Honors</u></b> 1 credit</p>	<p>423221 423222</p>	<p><i>Prerequisites:</i> Biology and Chemistry</p> <p><i>Description:</i> 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.</p>
<p><b><u>Advanced Placement Biology</u></b> 2 credits</p>	<p>424531 424532 424533 424534</p>	<p><i>Prerequisites:</i> A biology course and a chemistry course</p> <p><i>Description:</i> The Advanced Placement Biology course is designed for students who have demonstrated ability and interest in the science of biology and who desire to pursue their study in greater depth. The course has a substantial laboratory component. These labs are drawn from the areas of biological chemistry, cell structure and function, energy transformation, molecular genetics, heredity, evolution, plant/animal structure and physiology, behavior, and ecology. This course is recommended for students considering the life sciences as a potential career. This course follows the advanced placement outline. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit. Students should note that Advanced Placement Biology is scheduled for one double class period every day for the entire school year.</p>
<p><b><u>Chemistry</u></b> 1 credit</p>	<p>431011 431012</p>	<p><i>Prerequisites:</i> A biology course</p> <p><i>Description:</i> In Chemistry, students will develop understandings of key concepts related to the</p>



		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.
<b><u>Chemistry Honors</u></b> 1 credit	431021 431022	<i>Prerequisites:</i> A biology course  <i>Description:</i> 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 studying the same topics as all other chemistry students.
<b><u>Accelerated Chemistry</u></b> 1 credit	431111 431112	<i>Prerequisites:</i> A biology course  <i>Description:</i> 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.

		<b>Indian Trail Academy only</b>
<b><u>Matter and Energy</u></b> 1 credit	432911 432912	<i>Prerequisites:</i> A biology course  <i>Description:</i> 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.  <i>Note:</i> Not open to students who have earned credit in Chemistry, Chemistry Honors, Conceptual Physics, or Advanced Placement Physics 1
<b><u>Advanced Placement Chemistry</u></b> 2 credits	434531 434532 434533 434534	<i>Prerequisites:</i> Chemistry course and Algebra 2  <i>Description:</i> This course is designed according to the College Board Advanced Placement outline to be the equivalent of the general chemistry course usually taken during the first college year. 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. Advanced Placement Chemistry is highly recommended for students considering science, engineering, or medical careers.
<b><u>Conceptual Physics</u></b> 1 credit	441011 441012	<i>Prerequisites:</i> A biology course and a chemistry course  <i>Description:</i> 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.

		<p><u>Note:</u> Not open to students who have earned credit in Advanced Placement Physics 1</p>
<p><b><u>Accelerated Physics</u></b> 1 credit</p>	<p>441111 441112</p>	<p><i>Prerequisites:</i> A biology course, a chemistry course, and Algebra 2</p> <p><i>Description:</i> In this course instructors use a math-based approach to provide students with an introduction to the field of physics. Topics include:</p> <ul style="list-style-type: none"> <li>• A mathematics review;</li> <li>• Motion, forces, work, and energy;</li> <li>• Properties of solids, liquids, and gases;</li> <li>• Elasticity;</li> <li>• Thermodynamics;</li> <li>• Acoustics (sound);</li> <li>• Optics (light);</li> <li>• Electricity and magnetism; and</li> <li>• Modern physics.</li> </ul> <p>This course is highly recommended for students considering science and engineering careers.</p> <p><i>Indian Trail Academy only</i></p>
<p><b><u>Advanced Placement Physics 1</u></b> 1 credit</p>	<p>444531 444532</p>	<p><i>Prerequisites:</i> A biology course and a chemistry course</p> <p><i>Description:</i> Advanced Placement Physics 1 is an algebra-based introductory college-level physics course that explores topics such as Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory simple circuits. Through inquiry-based learning, students develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the</p>

		instructional time will be spent in hands-on laboratory work with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.
<b><u>Advanced Placement Physics 2</u></b> 1 credit	444533 444534	<p><i>Prerequisites:</i> Advanced Placement Physics 1 and concurrent or prior enrollment in Precalculus</p> <p><i>Description:</i> Advanced Placement Physics 2 is an algebra-based introductory college-level physics course that explores topics such as:</p> <ul style="list-style-type: none"> <li>• Fluid statics and dynamics;</li> <li>• Thermodynamics with kinetic theory;</li> <li>• Pressure-volume diagrams and probability;</li> <li>• Electrostatics;</li> <li>• Electrical circuits with capacitors;</li> <li>• Magnetic fields;</li> <li>• Electromagnetism;</li> <li>• Physical and geometric optics; and</li> <li>• Quantum, atomic, and nuclear physics.</li> </ul> <p>Through inquiry-based learning, students will develop scientific critical thinking and reasoning skills. This course requires that 25 percent of the instructional time will be spent in hands-on laboratory work with an emphasis on inquiry-based investigations that provide students with opportunities to apply the science practices.</p>
<b><u>Advanced Placement Physics C: Mechanics</u></b> 1 credit	444631 444632	<p><i>Prerequisites:</i> A physics course and concurrent enrollment in Advanced Placement Calculus</p> <p><i>Description:</i> This course is equivalent to a first semester college physics course using differential and integral calculus. It follows the College Board Advanced Placement Physics C</p>



		<p>(mechanics) course outline covering Newtonian mechanics in depth. Instruction is provided in each of the following six content areas:</p> <ul style="list-style-type: none"> <li>• Kinematics;</li> <li>• Newton’s Laws of Motion;</li> <li>• Work, energy and power;</li> <li>• Systems of particles and linear momentum;</li> <li>• Circular motion and rotation; and</li> <li>• Oscillations and gravitation.</li> </ul> <p>The course prepares students for second semester college courses in physics and calculus. Students are strongly encouraged to take the Advanced Placement Examination with the potential to earn college credit.</p>
<p><b><u>Geology Honors</u></b> 1 credit</p>	<p>451021 451022</p>	<p><i>Prerequisites:</i> A biology course, a chemistry course, and a physics course or concurrent enrollment in a physics course</p> <p><i>Description:</i> 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.</p>
<p><b><u>Earth Science</u></b> 1 credit</p>	<p>453511 453512</p>	<p><i>Prerequisites:</i> Biology and Matter and Energy</p>

		<p><i>Description:</i> 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.</p> <p><u>Note:</u> Not open to students who have earned credit in a chemistry course or a physics course</p>
<p><b><u>Geoscience and Astronomy</u></b> 1 credit</p>	<p>454011 454012</p>	<p><i>Prerequisites:</i> A biology course, a chemistry course, and a physics course</p> <p><i>Description:</i> 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.</p> <p><b>Indian Trail Academy only</b></p>
<p><b><u>Astronomy</u></b> 1 credit</p>	<p>461011 461012</p>	<p><i>Prerequisites:</i> A biology course, a chemistry course, and a physics course or concurrent enrollment in a physics course</p> <p><i>Description:</i> Students will study the universe as they cover the following topics: history of</p>

		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.
<b><u>Ecology</u></b> 1 credit	472111 472112	<i>Prerequisites:</i> A biology course, a chemistry course, and a physics course or concurrent enrollment in a physics course  <i>Description:</i> 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.
<b><u>Advanced Placement Environmental Science</u></b> 1 credit	474731 474732	<i>Prerequisites:</i> A biology course, a chemistry course, and a physics course or concurrent enrollment in a physics course  <i>Description:</i> Advanced Placement Environmental Science is designed to be the equivalent of a one-semester introductory college course in environmental science. The goal of the course is to provide students with the science concepts that help them understand the interrelationships of the natural world, to identify and analyze environmental problems—both natural and human made—to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. This course follows an outline suggested by the College Board. It is scheduled for a one-block period that meets every day all school year. Students are strongly encouraged to take the Advanced Placement Exam in May to potentially earn college credit.
<b><u>Principles of Biomedical Science Honors</u></b> 1 credit	481021 481022	<i>Prerequisites:</i> Biotechnology and Algebra 2  <i>Description:</i> 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.
<b><u>Human Body Systems Honors</u></b> 1 credit	482021 482022	<i>Prerequisites:</i> Principles of Biomedical Science Honors and Algebra 2  <i>Description:</i> 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 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><u>Medical Interventions Honors</u></b> 1 credit	483021 483022	<i>Prerequisites:</i> Human Body Systems Honors  <i>Description:</i> Students investigate the variety of medical interventions involved in prevention, diagnosis, and treatment of disease as they follow the lives of a fictitious family. Students will be exposed to a wide range of interventions related 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.
<u><b>Principles of Engineering</b></u> 1 credit	 482111 482112	<i>Prerequisites:</i> Algebra (312011 and 312012) and concurrent enrollment in Geometry (321011 and 321012 or 322021 and 322022)  <i>Description:</i> This 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.
<u><b>Principles of Engineering Honors</b></u> 1 credit	 482121 482122	<i>Prerequisites:</i> Algebra (312011 and 312012) and concurrent enrollment in Geometry (321011 and 321012 or 322021 and 322022)  <i>Description:</i> This 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, open-ended tasks as well as to follow directions in step-by-step learning. <u>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.</u>

<p><b><u>Biomedical Innovation</u></b>  <b><u>Honors</u></b>  1 credit</p>	<p>484021  484022</p>	<p><i>Prerequisites:</i> Medical Interventions Honors</p> <p><i>Description:</i> 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.</p>
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# 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	GEOGRAPHY AND WORLD ISSUES
9	<ul style="list-style-type: none"> <li>U.S. History or U.S. History Honors</li> </ul>				<u>Elective</u> <ul style="list-style-type: none"> <li>AP Human Geography</li> </ul>
10	<ul style="list-style-type: none"> <li>World History or World History Honors</li> <li>Advanced Placement World History</li> </ul>		One-half credit of behavioral science requirement or . . .  <u>Elective</u> <ul style="list-style-type: none"> <li>Ethnic Studies</li> <li>Ethnic Studies Honors</li> </ul>		<u>Electives</u> <ul style="list-style-type: none"> <li>Global Studies</li> <li>Global Studies Honors</li> <li>AP Human Geography</li> </ul>
11/12	<ul style="list-style-type: none"> <li>Advanced Placement United States History</li> <li>Advanced Placement World History</li> </ul>	<ul style="list-style-type: none"> <li>U.S. Government and Politics or U.S. Government and Politics Honors</li> <li>Advanced Placement United States Government and Politics</li> </ul>	One-half credit behavioral science requirement or . . .  <u>Elective</u> <ul style="list-style-type: none"> <li>Psychology or Psychology Honors</li> <li>Advanced Placement Psychology</li> <li>Sociology or Sociology Honors</li> <li>Ethnic Studies</li> <li>Ethnic Studies Honors</li> </ul>	Elective or consumer education requirement <ul style="list-style-type: none"> <li>Economics or Economics Honors</li> <li>Advanced Placement Macroeconomics</li> <li>Advanced Placement Microeconomics</li> </ul>	<u>Electives</u> <ul style="list-style-type: none"> <li>Global Studies</li> <li>Global Studies Honors</li> <li>AP Human Geography</li> </ul>

## COURSES

<p><b><u>U.S. History</u></b> 1 credit</p>	<p>220111 220112</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>U.S. History Honors</u></b> 1 credit</p>	<p>220121 220122</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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:</p> <ul style="list-style-type: none"> <li>• 1865-77—Reconstruction;</li> <li>• 1865-1900—The Gilded Age, Industrialism, Urbanization, and the End of the Frontier;</li> <li>• 1890-1914—Imperialism and the Progressive Era;</li> <li>• 1914-29—World War I and the Roaring Twenties;</li> </ul>

		<ul style="list-style-type: none"> <li>• 1929-45—The Great Depression and World War II;</li> <li>• 1945-60—The Cold War Era;</li> <li>• 1960-90—The Vietnam War, the Civil Rights Movement, Watergate, and the administrations of Ford; Carter; Reagan; and Bush.</li> </ul>
<u><b>Advanced Placement United States History</b></u> 1 credit	220131 220132	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<u><b>World History</b></u> 1 credit	230111 230112	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>

<p><b><u>World History Honors</u></b> 1 credit</p>	<p>230121 230122</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Advanced Placement World History</u></b> 1 credit</p>	<p>230131 230132</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> The purpose of the Advanced 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.</p>
<p><b><u>U.S. Government and Politics</u></b> ½ credit</p>	<p>240110</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course is a survey of the U.S. Government structure, systems, and political processes focusing on constitutional structures</p>


		and foundations. Content will include factors that influence U.S. Government. This course prepares students to become responsible/aware members of American society.
<b><u>Government and Politics Honors</u></b> ½ credit	240120	<i>Prerequisites:</i> None  <i>Description:</i> This course is a study of the U.S. Government system and political processes focus-ing 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><u>Advanced Placement United States Government and Politics</u></b> 1 credit	240131 240132	<i>Prerequisites:</i> None  <i>Description:</i> This one-credit Advanced 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 and take the Advanced Placement Examination to potentially earn college credit.
<b><u>Sociology</u></b> ½ credit	250110	<i>Prerequisites:</i> None  <i>Description:</i> During this course of study, students will develop an understanding and be able to apply 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.
<b><u>Sociology Honors</u></b> ½ credit	250120	<i>Prerequisites:</i> None  <i>Description:</i> This Sociology Honors course will emphasize in-depth, independent reading, writing, and research as students develop an understanding and apply sociological concepts and perspectives concerning human groups that include attention to socialization, culture, organization, stratification, and societies.
<b><u>Ethnic Studies</u></b> ½ credit	250510	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Ethnic Studies Honors</u></b> ½ credit	250520	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Psychology</u></b> ½ credit	260110	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Psychology Honors</u></b> ½ credit	260120	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Advanced Placement Psychology</u></b> 1 credit	260131 260132	<i>Prerequisites:</i> None  <i>Description:</i> 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 Examination to potentially earn college credit.
<b><u>Economics</u></b> ½ credit	270110	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Economics Honors</u></b> ½ credit	270120	<i>Prerequisites:</i> None  <i>Description:</i> 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.
<b><u>Advanced Placement Macroeconomics</u></b> 1 credit	270131 270132	<i>Prerequisites:</i> None  <i>Description:</i> 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

		<p>Advanced Placement Government and Politics. In addition to an introduction in basic economic concepts, the following units will be included:</p> <ul style="list-style-type: none"> <li>• Measurement of economic performance;</li> <li>• National income and price determination;</li> <li>• Financial sectors;</li> <li>• Inflation, unemployment, and stabilization policies;</li> <li>• Economic growth and productivity; and</li> <li>• International trade and finance.</li> </ul> <p>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.</p>
<p><b><u>Advanced Placement Microeconomics</u></b>  1 credit</p>	<p>270231 270232</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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:</p> <ul style="list-style-type: none"> <li>• Nature and function of markets,</li> <li>• Factor markets,</li> <li>• Market failure and the role of government.</li> </ul> <p>Students are strongly encouraged to successfully complete this class and take the Advanced Placement Examination to potentially earn</p>

		college credit. It is suggested that students not take both Advanced Placement macroeconomics and microeconomics courses in the same year.
<b><u>Advanced Placement Human Geography</u></b>	280231 280232	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<b><u>Global Studies</u></b> ½ credit	280410	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.).</p>
<b><u>Global Studies—Honors</u></b> ½ credit	280420	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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</p>

		(maps, charts, graphs, photos, etc.). Honors includes an emphasis on writing, researching, and presentations.
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# WORLD LANGUAGE

COURSES		
<p><b><u>Introductory Chinese 1</u></b> 1 credit</p>	<p>701112 701114</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p> <p style="text-align: center;"><i>Indian Trail Academy only</i></p>
<p><b><u>Advanced Chinese 3</u></b> 1 credit</p>	<p>703312 703314</p>	<p><i>Prerequisites:</i> Intermediate Chinese 2 (702212 and 702214)</p> <p><i>Description:</i> 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.</p> <p style="text-align: center;"><i>Indian Trail Academy only</i></p>
<p><b><u>Intermediate Chinese 2 Honors</u></b> 1 credit</p>	<p>704021 704022</p>	<p><i>Prerequisites:</i> Introductory Chinese (701112 and 701114)</p> <p><i>Description:</i> This course continues with the development of communicative skills with an emphasis in expanding vocabulary, grammar, reading, and writing skills. Students will be able to use the language with more ease and</p>

		<p>spontaneity. This course provides a solid foundation for any student wanting to advance to the next level. World language honors classes challenge students to a higher level of fluency.</p> <p><i>Indian Trail Academy only</i></p>
<p><b><u>Chinese 4 Honors</u></b>  <span style="background-color: #FF00FF; color: black;">_ credit(s)</span></p>	<p>704412 704414</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> In this course advanced communication skills continue to develop through the four language domains of listening, speaking, reading, and writing. Students acquire information through authentic sources in the target language and apply what they have learned in order to communicate in the target language.</p>
<p><b><u>Advanced Chinese 3 Honors</u></b> 1 credit</p>	<p>706021 706022</p>	<p><i>Prerequisites:</i> Intermediate Chinese (702212 and 702214)</p> <p><i>Description:</i> In this course, communication skills continue to develop through vocabulary enrichment. Grammar is practiced with more complex writing tasks. Students apply critical thinking skills during class discussions and presentations of current events. This course provides a solid foundation for any student wanting to advance to the next level. World language honors classes challenge students to a higher level of fluency.</p> <p><i>Indian Trail Academy only</i></p>
<p><b><u>Introductory French 1</u></b> 1 credit</p>	<p>711112 711114</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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 advance to the next level.</p>



<p><b><u>Intermediate French 2 Honors</u></b> 1 credit</p>	<p>712222 712224</p>	<p><i>Prerequisites:</i> Introductory French 1 (711112 and 711114)</p> <p><i>Description:</i> 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.</p>
<p><b><u>Advanced French 3 Honors</u></b> 1 credit</p>	<p>713322 713324</p>	<p><i>Prerequisites:</i> Intermediate French 2 Honors (712222 and 712224)</p> <p><i>Description:</i> 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.</p>
<p><b><u>Advanced Placement French Language and Culture</u></b> 1 credit</p>	<p>714422 714424</p>	<p><i>Prerequisites:</i> Advanced French 3 Honors (713322 or 713324)</p> <p><i>Description:</i> 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.</p>
<p><b><u>German 1</u></b> 1 credit</p>	<p>731112E 731114E</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> German 1 provides an introduction to the basics of the German Language and the German-speaking world. This two-semester course has been constructed to meet the standards for the American Council</p>

		<p>on the Teaching of Foreign Languages (ACTFL). These standards dictate a pedagogical method that focuses on successful communication through speaking, listening, reading, and writing. Unit topics consist of 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, quizzes, and exams.</p>
<p><b><u>German 2</u></b> 1 credit</p>	<p>732212E 732214E</p>	<p><i>Prerequisites:</i> German 1</p> <p><i>Description:</i> Instructional content in German 2 introduces students to new grammar and vocabulary and allows them to build conversational and reading skills to cover many common situations in daily life. Like German 1, this follow-up course adheres to the standard of the American Council on 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 German 1 in order to enroll in this course.</p>
<p><b><u>German 2 Honors</u></b> 1 credit</p>	<p>732222E 732224E</p>	<p><i>Prerequisites:</i> German 1</p> <p><i>Description:</i> Instructional content in German 2 introduces students to new grammar and vocabulary and allows them to build conversational and reading skills to cover many common situations in daily life. Like German 1, this follow-up course adheres to the standard of the American Council on the teaching of Foreign Languages (ACTFL). Learning activities in each unit are focused on a specific theme. The units for both semesters</p>

		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 German 1 in order to enroll in this course.
<b><u>German 3</u></b> 1 credit	733312E 733314E	<i>Prerequisites:</i> German 2  <i>Description:</i> This course expands the scope of concepts and information that students mastered in the German 1 and 2 courses and aligns with the 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 vacations, travel, leisure time, healthy living, body parts and ailments, family members, rights and responsibilities, household chores, university study, military service, personal relationships, the importance of appearance, emotions, fairy tales, and animals. Unit activities blend different forms of communication and culture.
<b><u>German 3 Honors</u></b> 1 credit	733322E 733324E	<i>Prerequisites:</i> German 2  <i>Description:</i> This course expands the scope of concepts and information that students mastered in the German 1 and 2 courses and aligns with the 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 vacations, travel, leisure time, healthy living, body parts and ailments, family members, rights and responsibilities, household chores, university study, military service, personal relationships, the importance of appearance, emotions, fairy tales, and animals. Unit activities blend different forms of communication and culture.

<p><b><u>German 4</u></b> 1 credit</p>	<p>734412E 734414E</p>	<p><i>Prerequisites:</i> German 3</p> <p><i>Description:</i> German 4 builds on the foundation of the first three courses. Students continue to sharpen their speaking, listening, reading, and writing skills while also learning to express themselves on topics relevant to German culture. Authentic texts; current culture; and literature from Germany, Austria, and Switzerland all form part of the instructional material for this course. Each unit focuses on a particular region or city and includes such themes as culture, tourism, and current events. These units cover topics such as contemporary and classical music, expressing opinions, German history, transportation, family, weekend travel, shopping, free-time activities, technology, multiculturalism, education, and careers.</p>
<p><b><u>German 4 Honors</u></b> 1 credit</p>	<p>734422E 734424E</p>	<p><i>Prerequisites:</i> German 3</p> <p><i>Description:</i> German 4 builds on the foundation of the first three courses. Students continue to sharpen their speaking, listening, reading, and writing skills while also learning to express themselves on topics relevant to German culture. Authentic texts; current culture; and literature from Germany, Austria, and Switzerland all form part of the instructional, material for this course. Each unit focuses on a particular region or city and includes such themes as culture, tourism, and current events. These units cover topics such as contemporary and classical music, expressing opinions, German history, transportation, family, weekend travel, shopping, free-time activities, technology, multiculturalism, education, and careers.</p>
<p><b><u>Introductory Italian 1</u></b> 1 credit</p>	<p>751112 751114</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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</p>

		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.
<b><u>Intermediate Italian 2 Honors</u></b> 1 credit	752222 752224	<i>Prerequisites:</i> Introductory Italian 1 (751112 and 751114)  <i>Description:</i> 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.
<b><u>Advanced Italian 3 Honors</u></b> 1 credit	753322 753324	<i>Prerequisites:</i> Intermediate Italian 2 Honors (752222 and 752224)  <i>Description:</i> 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.
<b><u>Advanced Placement Italian Language and Culture</u></b> 1 credit	754422 754424	<i>Prerequisites:</i> Advanced Italian 3 Honors (753322 and 753324)  <i>Description:</i> 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.

<p><b><u>Introductory Spanish 1</u></b> 1 credit</p>	<p>771112 771114</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Spanish 1</u></b> 1 credit</p>	<p>771112E 771114E</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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.</p>
<p><b><u>Intermediate Spanish 2</u></b> 1 credit</p>	<p>772212 772214</p>	<p><i>Prerequisites:</i> Introductory Spanish 1 (771112 and 771114)</p> <p><i>Description:</i> 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.</p>

		This course provides a solid foundation for any student wanting to advance to the next level.
<b><u>Spanish 2</u></b> 1 credit	772212E 772214E	<i>Prerequisites:</i> Spanish 1  <i>Description:</i> 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.
<b><u>Intermediate Spanish 2 Honors</u></b> 1 credit	772222 772224	<i>Prerequisites:</i> Introductory Spanish 1 (771112 and 771114)  <i>Description:</i> 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.
<b><u>Spanish 2 Honors</u></b> 1 credit	772222E 772224E	<i>Prerequisites:</i> Spanish 1  <i>Description:</i> 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

		<p>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.</p>
<p><b><u>Advanced Spanish 3</u></b> 1 credit</p>	<p>773312 773314</p>	<p><i>Prerequisites:</i> Intermediate Spanish 2 (772212 and 772214)</p> <p><i>Description:</i> 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.</p>
<p><b><u>Spanish 3</u></b> 1 credit</p>	<p>773312E 773314E</p>	<p><i>Prerequisites:</i> Spanish 2</p> <p><i>Description:</i> 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, feelings, future plans and travel, geography, countries and nationalities, health, household items, measurements, occupations, and personal history. Unit activities blend different forms of communication and culture.</p>
<p><b><u>Advanced Spanish 3 Honors</u></b> 1 credit</p>	<p>773322 773324</p>	<p><i>Prerequisites:</i> Intermediate Spanish 2 Honors (772212 and 772214)</p> <p><i>Description:</i> All aspects of effective communication are practiced at this level with a strong emphasis on using authentic materials</p>



		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.
<b><u>Spanish 3 Honors</u></b> 1 credit	773322E 773324E	<i>Prerequisites:</i> Spanish 2  <i>Description:</i> 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, feelings, future plans and travel, geography, countries and nationalities, health, household items, measurements, occupations, and personal history. Unit activities blend different forms of communication and culture.
<b><u>Advanced Placement Spanish Language and Culture</u></b> 1 credit	774422 774424	<i>Prerequisites:</i> Advanced Spanish 3 (773312 and 773314)  <i>Description:</i> 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.
<b><u>Advanced Placement Spanish Language and Culture</u></b> 1 credit	774422E 774424E	<i>Prerequisites:</i> Spanish 3  <i>Description:</i> 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 college-level language course, Advanced Placement Spanish prepares students for the Advanced Placement Exam and for further study of Spanish Language, culture, or literature.
<b><u>Culture and Civilization Honors</u></b> 1 credit	776622 776624	<i>Prerequisites:</i> None  <i>Description:</i> Although all aspects of effective communication are practiced at this level, the emphasis is on speaking and reading. Using current magazines, newspapers, films, and literature, 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. 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.
<b><u>Spanish for Spanish Speakers I</u></b> 1 credit	781112 781114	<i>Prerequisites:</i> Oral fluency in Spanish  <i>Description:</i> 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.
<b><u>Spanish for Spanish Speakers II</u></b> 1 credit	782112 782114	<i>Prerequisites:</i> 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.

		<p><i>Description:</i> 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.</p>
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