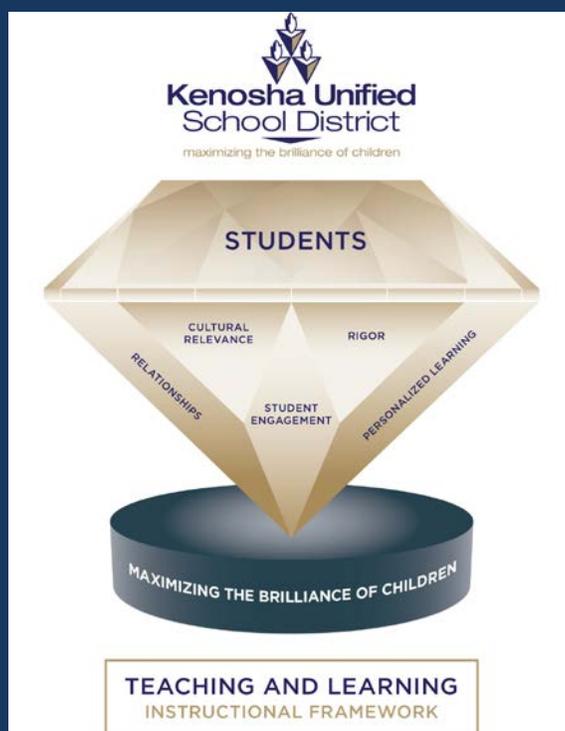


KENOSHA UNIFIED SCHOOL DISTRICT

HIGH SCHOOL COURSE CATALOG 2014-15



KENOSHA UNIFIED SCHOOL DISTRICT

HIGH SCHOOL COURSE CATALOG

2014-15

Bradford High School
Harborside Academy
Hillcrest
Indian Trail Academy
Indian Trail High School
Kenosha eSchool
LakeView Technology Academy
Reuther Central High School
Tremper High School

Teaching and Learning

Dr. Sue Savaglio-Jarvis
Assistant Superintendent of Teaching and Learning

Mr. Mark Hinterberg
Coordinator of Career and Technical Education
and Social Studies

Mr. Steven Knecht
Coordinator of Health and Physical Education

Mrs. Jennifer Lawler
Coordinator of Mathematics

Mrs. Susan Mirsky
Coordinator of Literacy

Ms. Marsha Nelson
Interim Coordinator of
Career and Technical Education

Mr. Scott Plank
Coordinator of Fine Arts

Mrs. Christine Pratt
Coordinator of Science

Mrs. Sarah Smith
Coordinator of World Language and
Language Acquisition Programs

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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 (30 class days for a semester course) 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><u>Desktop Publishing</u> ½ credit</p> 	810610	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Create your own CD cover. Create your own candy bar wrapper. Design an advertisement, or publish a newsletter used by a local company. Students will create business cards, flyers, forms, brochures, newsletters, greeting cards, and announcements using graphics, objects, fonts, etc.</p>
<p><u>Web Page Design</u> ½ credit</p>	810710	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Create your own Web page! 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><u>Personal Finance</u> ½ credit</p>	810910	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> You are bombarded daily with offers that sound too good to be true. You 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 consumer education credit and meets Wisconsin Financial Literacy Standards.</p>

<p><u>Personal Finance—Honors</u> ½ credit</p>	<p>810920</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This class focuses on your role as a citizen, student, family member, consumer, and active participant in the business world. You will investigate many important areas of interest that will enhance your financial security. You will also better understand your own wants, needs, and values and how these affect personal financial decisions. Understanding the concepts presented in this class will enable you to make wise decisions that will help your financial future and make you a more effective consumer. This course meets the requirement for consumer education credit and meets Wisconsin Financial Literacy Standards.</p>
<p><u>Business and the Economy</u> 1 credit</p>	<p>811011 811012</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This ninth grade course is an introduction to the role of business in modern society. Accounting, finance, economics, business law, management, leadership, personnel, and marketing will be some of the areas covered.</p>
<p><u>International Business</u> ½ credit</p>	<p>811110</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course will provide a foundation for becoming informed about the global business environment. In this course students will be introduced to the basic principles of international business, including monetary exchange rates, exports and imports, and custom and immigration policies, and gives insights into the employee-employer relationship in a global economy. Students may earn advanced standing at Gateway Technical College if they complete both Starting a Business and International Business with a B or better.</p>
<p><u>Starting a Business</u> ½ credit</p>	<p>811210</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Entrepreneurial literacy is important whether you work for an employer or start your own business. In this introductory business course, you will learn about different business models, their objectives, and ethical</p>

		and social responsibilities related to employees, customers, and managing business risks. Students will learn business principles and skills required to operate a business. Many topics can be explored through the computer simulation, Virtual Business Management. Students may earn advanced standing at Gateway Technical College if they complete both Starting a Business and International Business with a B or better.
<u>Accounting</u> 1 credit	 811411 811412	<i>Prerequisites:</i> None <i>Description:</i> Where does all the money go? You wouldn't go to a foreign country and not learn the language. Learn the language of business. Accounting can help you keep track of money for business and personal use. You will use financial information to make decisions.
<u>Advanced Accounting—Honors</u> 1 credit	 811421 811422	<i>Prerequisites:</i> Successful completion of Accounting (811411 and 811412) <i>Description:</i> Buy stock on the New York Stock Exchange, and automate your accounting records. Corporate and managerial accounting will be emphasized. If you liked Accounting, you will love Advanced Accounting. This is a college prep class that will give you a definite advantage toward your business career.
<u>Leadership</u> ½ credit	811610	<i>Prerequisites:</i> None <i>Description:</i> Successful athletes, powerful business people, and highly effective individuals—what do they have in common? They must have strong leadership skills to achieve success. This class is designed to teach students leadership skills that will be important to their future, regardless of career goals. This class teaches several of the new "basic skills" identified as crucial for success in the future. These skills include 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.
<u>Business and Personal Law</u> 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. This is definitely a fun class learning how the legal system impacts you.
<u>Business and Personal Law—Honors</u> 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.
<u>Financial Literacy</u> 1 credit		812111 812112	<i>Prerequisites:</i> None <i>Description:</i> This is the course that “shows” you the money.” Students in this course will learn the accounting principles needed to not only manage their own companies’ finances but also to effectively manage their own economic future. Topics such as savings, investing, payroll, financial statements, banking, and the accounting cycle will be introduced. This course meets the consumer education requirement. Indian Trail Academy only
<u>Entrepreneurship</u> ½ credit		812210	<i>Prerequisites:</i> None <i>Description:</i> This class is designed to teach students the skills necessary for owning, open-

		<p>ing, 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 re-search, make decisions, and be creative while they learn to write a business plan.</p> <p>Indian Trail Academy only</p>
<p><u>Computer Applications for Business</u> 1 credit</p>	<p>812611 812612</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p> <p>Indian Trail Academy only</p>
<p><u>Introduction to Business</u> ½ credit</p>	<p> 812710</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This introductory course provides a broad overview of the modern business enterprise. Students will learn how a business proceeds through the process of synthesis of an idea, adopting an organization, marketing, sourcing, production, logistics, finance, accounting, and reporting. Students will see how business owners that never dreamed of becoming international players now find themselves in those circumstances. Upon successful completion of this course, students may earn three Gateway credits.</p> <p>Indian Trail Academy only</p>
<p><u>Accounting Principles</u> 1 credit</p>	<p> 812711 812712</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Accounting Principles is an introduction to the field of accounting. It is designed for students majoring in accounting. The accounting cycle—analyzing, journalizing, posting, adjusting entries, worksheet preparation financial statements, and closing</p>

		entries—will be covered. Details of accounting for receivables, payables, cash, subsidiary ledgers, corporate organization, stock transactions, and dividends will be studied. Accounting Principles illustrates accounting methods for service and merchandising firms, partnerships, and corporations.
<u>Teen Leadership</u> 1 credit	812811 812812	<i>Prerequisites:</i> None <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.
<u>Financial Services (YAP)</u> 1 credit	818111 818112	<i>Prerequisites:</i> Successful completion of Personal Finance (810910) or Financial Literacy (812111 and 812112), interview, and teacher permission required <i>Description:</i> The Financial Services (Youth Apprenticeship Program [YAP]) is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local bank or credit union. Students will receive a Certificate of Occupational Proficiency from the state upon successful completion of the program. Applications for the YAP are available from your counselor.
<u>Business Partnership</u> 2 credits	 818211 818212 818213 818214	<i>Prerequisites:</i> Successful completion of Computer Application (820310) <i>Description:</i> Learn while you earn! Link your classroom learning to paid employment in an office environment in a Kenosha business. Students are paid at the workplace while applying classroom knowledge to real business situations. Build decision-making and leadership abilities. Further develop your business skills in the classroom and on the job. Stu-

		dents will be employed in areas such as accounting, banking, computers, legal, medical, and business support services for a minimum of 15 hours per week. Students are able to explore personal career goals, build desirable employee traits, and develop future employment opportunities. Microsoft Office Specialist (MOS) Certification is available.
<u>Internship</u> 1 credit	818311 818312	<i>Prerequisites:</i> None <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. Indian Trail Academy only
<u>Computer Applications for IT</u> 1 credit	820111 820112	<i>Prerequisites:</i> None <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.
<u>Webpage Development</u> ½ credit	820210	<i>Prerequisites:</i> Successful completion of Computer Applications (820311 and 820312) <i>Description:</i> Students will use hypertext markup language (HTML) to develop Internet World-Wide Webpages along with other Internet resources and development tools.
<u>Computer Applications</u> ½ credit	820310	<i>Prerequisites:</i> None <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.
<u>Network Concepts (CCNA 1)</u>  ½ credit	826110	<i>Prerequisites:</i> None <i>Description:</i> This course will provide you with more in-depth networking concepts. Topics will include the Internet, OSI model, wireless security, logical and physical topologies, instant messaging, basic router setup and switch configuration, network connectivity, and hardware and software configurations. You will also learn how to create local area networks and wide area networks. Individuals will learn real-world skills related to employment. Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion of this class.
<u>Routing (CCNA 2)</u>  ½ credit	826210	<i>Prerequisites:</i> Successful completion of Network Concepts (CCNA 1 [826110]) <i>Description:</i> This class provides classroom and lab experience in current and emerging networking technology. It includes the following networking concepts and technologies: OSI reference model, LANs, WANs, TCP/IP addressing, routers, router configuration, routed and routing protocols, Internetwork Open System (IOS) images, and network troubleshooting. Students will become familiar with the use of commands and protocols that are used when configuring networks and will learn how to troubleshoot a multirouter topology. Taught as a contracted service class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion of this class.
<u>Network Security</u>  ½ credit	826310	<i>Prerequisites:</i> Successful completion of Network Administration—Microsoft (827610) <i>Description:</i> Students will learn how to

		<p>maintain security in the workplace. Security plans will be created based on, but not limited to, ten key security technologies:</p> <ol style="list-style-type: none"> 1. Access control, 2. Network security, 3. Management security procedures, 4. Systems development security, 5. Cryptography, 6. Security models, 7. Operations security, 8. Disaster recovery, 9. Laws and ethics, and 10. Physical security. <p>Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion of this class.</p>
<p><u>Hardware and Software Support</u> ½ credit</p>	 <p>826510</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Students will learn to resolve hardware and software issues in a multiplatform environment. Students will troubleshoot and repair various systems and applications as well as desktop issues. This course will help prepare the student to take the CompTIA A+ certification exam and the Microsoft Certified Desktop Technician Exam 70-271. Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion of class.</p>
<p><u>Switching and WANs—CCNA 3 and 4</u> ½ credit</p>	 <p>826610</p>	<p><i>Prerequisites:</i> Routing CCNA 1 (926210)</p> <p><i>Description:</i> Continue to grow your networking skills by applying your knowledge from the two previous classes and learning more advanced concepts. New skills that will be explored include: configuring switches, implementing intermediate routing, calculating VLSMs, WAN services, NAT, PAT, and configuring DHCP. Hands-on experience will be acquired by applying your knowledge to complete a comprehensive threaded case study. Taught as a contracted services class by</p>

		Gateway Technical College instructors, students also earn four Gateway credits upon successful completion.
<u>Microcomputer Programming—Advanced</u>  ½ credit	826710	<p><i>Prerequisites:</i> Intro to Programming and Database Concepts (827310)</p> <p><i>Description:</i> A class in advanced microcomputer programming techniques, this class will examine trends in microcomputer program development including: use of objects, database access, receiving user input, displaying output, error handling, application controls, and online assistance. Taught as a contracted service class by Gateway Technical College instructors, students also earn three Gateway credits upon successful completion.</p>
<u>Virtual Technologies</u>  ½ credit	826910	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Students will learn the basic concepts and techniques of virtual technologies. Students will set up, configure, and monitor virtual systems utilizing different leading edge products. Current virtual technologies' configurations will be discussed, and popular tools will be used. Students will be able to apply the correct virtual solution to different business goals. This course is taught as a contracted service class by Gateway Technical College instructors. Students earn three Gateway credits upon successful completion of the course.</p>
<u>Introduction to Programming and Database Concepts</u>  1 credit	827310	<p><i>Prerequisites:</i> Successful completion of Instructional Technology in Business (829110)</p> <p><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.</p>

		Taught as a contracted service class by Gateway Technical College instructors, students earn four Gateway credits.
<u>IT Essentials</u> ½ credit	 827510	<i>Prerequisites:</i> None <i>Description:</i> IT (instructional 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. Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits.
<u>Network Administration: Microsoft</u> ½ credit	 827610	<i>Prerequisites:</i> Successful completion of Introduction to Networking/Web Concepts (829810) <i>Description:</i> This course is an introduction to basic and intermediate administration tasks in a Windows NT network environment. Taught as a contracted service class by Gateway Technical College instructors, students earn three Gateway credits.
<u>Information Technology (YAP)</u> 1 credit	828111 828112	<i>Prerequisites:</i> IT in Business (821211 and 821212) or Introduction to Network/Web Concepts (821111 and 821112) <i>Description:</i> This is a one- or two-year youth apprenticeship in information technology. Students earn credit as well as get paid for working for a local business. Students will receive a Certificate of Occupational Proficiency from the state upon successful completion of the pro-gram. Applications for the YAP are available from your counselor.
<u>Information Technology/Networking (YAP)</u> 1 credit	828211 828212	<i>Prerequisites:</i> IT in Business (829110) or Intro to Networking/Web Concepts (829810) <i>Description:</i> This is a one- or two-year youth apprenticeship in information technology/networking. Students earn credit as well as get paid for working for a local business. Students will receive a Certificate of Occupational

		Proficiency from the state upon successful completion of the program. Applications for the YAP are available from your counselor.
<u>Information Technology in Business</u>  ½ credit	829110	<i>Prerequisites:</i> None <i>Description:</i> This course offers a basic introduction to information technology (IT) and how it impacts our lives. Focus will be on how IT professionals implement industry tools and applications throughout business. Students will learn proper terminology as well as industry trends and concepts.
<u>IT in Business</u>  1 credit	829111 829112	<i>Prerequisites:</i> None <i>Description:</i> This course offers a basic introduction to information technology (IT) and how it impacts our lives. Focus will be on how IT professionals implement industry tools and applications throughout business. Students will learn proper terminology as well as industry trends and concepts.
<u>Introduction to Network/Web Concepts</u>  ½ credit	829810	<i>Prerequisites:</i> None <i>Description:</i> This course will introduce networking and Web concepts. Topics will include the Internet, OSI model, wireless, security, logical and physical topologies, hacking, and Web pages. Students will learn real-world skills related to employment. Taught as a contracted service class by Gateway Technical College instructors, students earn three Gateway credits.
<u>Marketing</u>  1 credit	830111 830112	<i>Prerequisites:</i> None <i>Description:</i> The most dynamic growth industry in the business environment is marketing. 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 consumer education graduation credit.

<p><u>Marketing—Honors</u>  1 credit</p>	<p>830121 830122</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> The most dynamic growth industry in the business environment is marketing. 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 consumer education graduation credit. Students have two options to earn honors credit: 1. exit interview or 2. compete with DECA.</p>
<p><u>Advanced Marketing</u>  1 credit</p>	<p>830311 830312</p>	<p><i>Prerequisites:</i> Successful completion of Marketing (830111 and 830112), application, and teacher permission required</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. A grade of 80 percent or higher will earn three transcribed Gateway credits for Course No. 104-101 Marketing Principles.</p>
<p><u>Advanced Marketing—Honors</u>  1 credit</p>	<p>830321 830322</p>	<p><i>Prerequisites:</i> Successful completion of Marketing (830111 and 830112), application, and teacher permission required</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><u>Retail Merchandising/ Management</u> 1 credit</p>	<p>830411 830412</p>	<p><i>Prerequisites:</i> Successful completion of Marketing (830111 and 830112), application, and teacher permission required</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><u>Retail Merchandising/ Management—Honors</u> 1 credit</p>	<p>830421 830422</p>	<p><i>Prerequisites:</i> Successful completion of Marketing (830111 and 830112), application, and teacher permission required</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</p>

		operations. Class discussions and case studies will be presented on a variety of topics. Students have three options to earn honors credit: 1. exit interview, 2. SBE Paper, or 3. compete with DECA.
<u>Advanced Marketing Internship</u> 1 credit	838211 838212	<i>Prerequisites:</i> Successful completion of Marketing (830111 and 830112) and concurrent enrollment in Advanced Marketing (830321 and 830322) <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.
<u>Hawk Shop</u> 1 credit	838311 838312	<i>Prerequisites:</i> Successful completion of Marketing (830111 and 830112), application, and teacher permission required <i>Description:</i> 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. The Trail Mix serves the Indian Trail Academy community by promoting civic consciousness in its support of school events, programs, and charitable causes. Indian Trail Academy only
<u>Retail Merchandising/Management Internship</u> 1 credit	838411 838412	<i>Prerequisites:</i> Successful completion of Marketing (830111 and 830112) and concurrently enrolled in Retail Merchandising/Management (830411 and 830412) <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.
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FAMILY AND CONSUMER SCIENCE

COURSES		
Early Childhood Education and Services		
<p><u>Child Development 1</u> 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><u>Child Development 2</u> ½ credit</p>	841310	<p><i>Prerequisites:</i> Successful completion of Child Development 1 (841210)</p> <p><i>Description:</i> Students will continue to explore the physical, social, emotional, and intellectual development of children ages 4 through 12. Other topics covered include developmental theories, behavior patterns, media influences, and societal effects on development. Students interested in a career in child care or elementary education will find this course useful.</p>
<p><u>Foundations of Early Childhood Development</u> ¾ credit</p>	841610	<p><i>Prerequisites:</i> Child Development 1 and Child Development 2</p> <p><i>Description:</i> This course introduces students to the early childhood profession. Course competencies include: integrating strategies that support diversity and antibias 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.</p>
<p><u>ECE: Health, Safety, and Nutrition</u> ¾ credit</p>	849410	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course examines the topics of health, safety, and nutrition within the context of the early childhood educational setting. Learn to integrate strategies that support diversity and</p>

		<p>antibias perspectives; follow governmental regulations and professional standards as they apply to health, safety, and nutrition; provide a safe, healthy, and nutritionally sound early childhood program; adhere to child abuse and neglect mandates; apply Sudden Infant Death Syndrome (SIDS) risk reduction strategies; and incorporate health, safety, and nutrition concepts into the children's curriculum. Taught as a contracted services class by Gateway Technical College instructors, students also earn three Gateway credits upon successful completion of the course. Applications are available from your counselor.</p>
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Family and Community Services		
<u>Building Relationships</u> ½ credit	840710	<i>Prerequisites:</i> None <i>Description:</i> This course is available for grades 10, 11, and 12. This course 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.
<u>Parenting</u> 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 will examine 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, experiencing the unconditional love of a child, and hearing "Mom" or "Dad" for the first time. 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.
Food Production and Services		
<u>Food and Nutrition: Foods 1</u> ½ credit	840310	<i>Prerequisites:</i> None <i>Description:</i> Food and Nutrition: Foods 1 is a study of nutrition and food needs for all age groups. Students will study the effect of technology on food, current health problems related to diet, and the social and cultural influence on food and resources. Preparation of food to meet dietary requirements while managing resources is basic to the course.

<p><u>Culinary Skills:</u>  <u>Foods 2</u> ½ credit</p>	<p>840410</p>	<p><i>Prerequisites:</i> Successful completion of Food and Nutrition: Foods 1 (840310)</p> <p><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.</p>
<p><u>Career Foods:</u>  <u>Foods 3</u> ½ credit</p>	<p>840510</p>	<p><i>Prerequisites:</i> Successful completion of Culinary Skills: Foods 2 (840410) and/or teacher permission is required.</p> <p><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.</p>
<p><u>Hospitality, Lodging, and Tourism YAP)</u>  1 credit</p>	<p>848311 848312</p>	<p><i>Prerequisites:</i> Successful completion of Career Foods (840510), interview, and teacher permission required</p> <p><i>Description:</i> This course is available for grades 11 and 12. This is a one-or two-year apprenticeship. Students earn credit and are paid for working for a local restaurant/lodging facility. Students will receive a Certificate of Occupational Proficiency from the state upon successful completion of the program. Hospitality and tourism careers provide consumers with</p>

		travel, tourism, lodging, dining, event planning, and entertainment. Abundant employment opportunities can be found in hotels, travel agencies, attractions, and related tourism organizations. Students can combine this program with participation in Family, Community, Career Leadership of America (FCCLA). Applications for the Youth Apprenticeship Program are available from your counselor.
Textiles and Apparel		
<u>Textile Arts</u> ½ credit	840810	<i>Prerequisites:</i> None <i>Description:</i> Calling all students who are looking for a way to express their creativity or just make better use of their leisure time! Experience the satisfaction of creating unique and useful items to wear or display in the home. This course provides the opportunity to learn many sewing-related skills not taught in other sewing classes. Examples of projects include knitting, crocheting, counted cross stitch, embroidery, needlepoint, and other handcrafts. The student will learn about the entrepreneurial possibilities of handcrafts. Students will also plan, select, and complete the construction of a service project. Students must purchase their own materials and supplies. Costs will vary based on projects chosen.
<u>Family Clothing: Clothing 1</u> 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 will be utilized to complete individual clothing projects. Students must purchase their own materials and supplies.

<p><u>Fashion Careers: Clothing 2</u> ½ credit</p>	<p>840210</p>	<p><i>Prerequisites:</i> Successful completion of Family Clothing: Clothing 1 (840110)</p> <p><i>Description:</i> The focus of this course is toward 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. A course fee is to be paid at registration.</p>
<p>Housing, Interiors, and Furnishings</p>		
<p><u>Interior Design 1</u>  ½ credit</p>	<p>840910</p>	<p><i>Prerequisites:</i> None</p> <p><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. Students may earn advanced standing at Gateway Technical College if they complete both Interior Design 1 and Interior Design 2 with a B or better.</p>
<p><u>Interior Design 2</u>  ½ credit</p>	<p>841010</p>	<p><i>Prerequisites:</i> Successful completion of Interior Design 1 (840910)</p> <p><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. Students may earn advanced standing at Gateway Technical College if they complete both Interior Design 1 and Interior Design 2 with a B or better.</p>

Health Services		
<p><u>Exploring Health Occupations</u> ½ credit</p>	850110	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Introduction to Medical Terminology</u> ½ credit</p>	850210	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course is available for grades 10, 11, and 12. This course will provide 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.</p>
<p><u>Health Services (YAP)</u> 1 credit</p>	 <p>858111 858112</p>	<p><i>Prerequisites:</i> Successful completion of Certified Nursing Assistant (859310) or Exploring Healthcare Occupations (850110), interview, and teacher permission required</p> <p><i>Description:</i> The Health Services Youth Apprenticeship Program (YAP) is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local healthcare facility. Students will receive a Certificate of Occupational Proficiency from the state upon successful completion of the program. Students have the opportunity for health service apprenticeships in the areas of Health Information Management (HIM), Medical Assistant (MA), Nursing Assistant (NA), and Pharmacy Technician (PHARM). Applications for the Youth Apprenticeship Program are available from your counselor.</p>

<p><u>Medical Terminology</u> ¾ credit</p> 	859210	<p><i>Prerequisites:</i> None</p> <p><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. This course is taught as a contracted services class by Gateway Technical College instructors. Students earn three Gateway credits upon successful completion of the course. Students should see their counselors for an application.</p>
<p><u>Certified Nursing Assistant</u> ¾ credit</p> 	859310	<p><i>Prerequisites:</i> None</p> <p><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 contracted services class by Gateway Technical College instructors, students earn three Gateway credits. Applications are available from your counselor.</p>
<p><u>Introduction to Computing for Healthcare</u> ½ credit</p> 	859510	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course provides an introduction to basic computer functions and applications utilized in contemporary healthcare settings. Students are introduced to the hardware and software components of modern computer systems and the application of computers in the workplace. The course emphasizes the use of common software packages, operating systems, file management, word processing, spreadsheets, databases, Internet, and electronic mail.</p> <p>Indian Trail Academy only</p>

TECHNOLOGY AND ENGINEERING

COURSES		
<p><u>Construction Planning</u> ½ credit</p>	<p>850310</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Students will develop knowledge, skills, and attitudes about designing a residential structure referred to as a "dream home." Functions of a contractor and the services of an architect will be reviewed. Students will manually draft their dream home (Bradford will also make a model home) and then draft their designs via an industrial standard AutoCAD. This course will serve as an excellent introduction to architecture.</p>
<p><u>Construction Systems 1</u> 1 credit</p>	<p>860411 860412</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This 18-week 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 will 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><u>Construction Systems 2</u> 1 credit</p>	<p>860511 860512</p>	<p><i>Prerequisites:</i> C or better in Construction Systems 1 (860411 and 860412)</p> <p><i>Description:</i> This 18-week course is designed to further develop the students' fundamentals of construction systems. This course gives the students a hands-on opportunity to explore the construction field. The class 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><u>Civil Engineering and Architecture</u> 1 credit</p> 	<p>860811 860812</p>	<p><i>Prerequisites:</i> Successful completion of Introduction to Engineering Design (880511 and 880512) or Construction Planning (860310) and/or teacher permission required</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 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.</p>
<p><u>Civil Engineering and Architecture—Honors</u> 1 credit</p> 	<p>860821 860822</p>	<p><i>Prerequisites:</i> Successful completion of Introduction to Engineering Design (880511 and 880512) or Construction Planning (860310) and/or teacher permission required</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.</p>
<p><u>Computer-Aided Design: Beginning</u> 1 credit</p> 	<p>860911 860912</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Students will attain 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.</p>

<p><u>Architectural Design (YAP)</u> 1 credit</p>	<p>868111 868112</p>	<p><i>Prerequisites:</i> Successful completion of Computer-Aided Design 2 (860210) or Introduction to Engineering Design (880511 and 880512), interview, and/or teacher permission required</p> <p><i>Description:</i> The Architectural Design Youth Apprenticeship Program (YAP) is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local business. Students will receive a Certificate of Occupational Proficiency from the state upon successful completion of the program. Applications for the Youth Apprenticeship Program are available from your counselor.</p>
<p><u>Consumer Auto and Car Care</u> ½ credit</p>	<p>870210</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course will give students the necessary skills to care for and understand basic automotive systems. Students will gain the ability to perform very basic maintenance on automotive lubrication, cooling, and electrical systems. Students will 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 will introduce the student to situations that commonly occur in the day-to-day operation of motor vehicles as well as in the safe handling and disposal of chemicals found in today's automobile.</p>
<p><u>Automotive Technology 1</u> ½ credit</p>	<p>870310</p>	<p><i>Prerequisites:</i> None</p> <p><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 will also become competent in basic measurement and safety procedures and the use of a repair of fasteners.</p>

<p><u>Automotive Technology 2</u> 1 credit</p>	<p>870411 870412</p>	<p><i>Prerequisites:</i> Successful completion of Automotive Technology 1 (870310)</p> <p><i>Description:</i> 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 will also become competent in basic measurement and safety procedures and the use of and repair of fasteners.</p>
<p><u>Automotive Collision 1</u> 1 credit</p>	<p>870511 870512</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Small Engine Repair and Maintenance</u> ½ credit</p>	<p>870610</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Auto IT for Transportation</u> ½ credit</p>	<p>877110</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Modern vehicles use on-board computers to control just about every function, from accident avoidance to video navigation. Communication between computers is handled over sophisticated networks. 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</p>

		network; and troubleshooting hardware, software, and network failures. Taught as a contracted service class by Gateway Technical College instructors at the Horizon Center for Transportation, students also earn two Gateway credits upon successful completion. See your counselor for an application.
<u>Auto Service Fundamentals</u> ½ credit	 877210	<p><i>Prerequisites:</i> Auto IT for Transportation (877110)</p> <p><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 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.</p>
<u>Auto Technician (YAP)</u> 1 credit	 878311 878312	<p><i>Prerequisites:</i> Successful completion of Automotive Technology 1 (870311 and 870312), teacher permission, and interview required</p> <p><i>Description:</i> The Automotive Technician Youth Apprenticeship Program (YAP) is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local business. Students will receive a Certificate of Occupational Proficiency from the state upon successful completion of the program. Applications for the Youth Apprenticeship Program are available from your counselor.</p>

<p><u>Automotive Collision (YAP)</u> 1 credit</p>	<p>878511 878512</p>	<p><i>Prerequisites:</i> Successful completion of Auto Collision 1 (870511 and 870512), teacher permission, and interview required</p> <p><i>Description:</i> The Automotive Collision Youth Apprenticeship Program (YAP) is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local business. Students will receive a Certificate of Occupational Proficiency from the state upon successful completion of the program. Applications for the Youth Apprenticeship Program are available from your counselor.</p>
<p><u>Brake Systems</u> ¾ credit</p> 	<p>879110</p>	<p><i>Prerequisites:</i> Auto Service Fundamentals (877210)</p> <p><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 by Gateway Technical College instructors, students earn three Gateway credits upon successful completion. See your counselor for an application.</p>
<p><u>Drafting, Electronics, and Machining</u> 1 credit</p>	<p>880111 880112</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course is a comprehensive introduction to the materials and products used to design, develop, and engineer manufactured products. Board drafting experience will provide the basis for the introduction of AutoCAD in the sophomore-level classes. Materials science will be emphasized during the application of industrial materials and processes to a project-oriented curriculum. Students will solve problems, make decisions related to manufacturing materials and processes, test materials, and transform standard stock into finished products. Students will complete lab reports and maintain project control documentation, which highlights the course's competencies.</p>

<p><u>Introduction to Design, Engineering, and Technology</u> 1 credit</p>	<p>880311 880312</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Students begin to explore simple machines and technology stems and processes. The principles of science, math, and technology are explored as to how—both individually and combined—they help people.</p>
<p><u>Principles of Engineering</u> 1 credit</p>	<p>880411 880412</p>	<p><i>Prerequisites:</i> Successful completion of Algebra (312011 and 312012 or 311011 and 311012 or 311013 and 311014) and concurrent enrollment in Geometry (321011 and 321012 or 322021 and 322022)</p> <p><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. This course can satisfy one Kenosha Unified School District science credit (482111 and 482112).</p>
<p><u>Principles of Engineering—Honors</u> 1 credit</p> 	<p>880421 880422</p>	<p><i>Prerequisites:</i> Successful completion of Algebra (312011 and 312012 or 311011 and 311012 or 311013 and 311014) and concurrent enrollment in Geometry (321011 and 321012 or 322021 and 322022)</p> <p><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</p>

		<p>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 432112).</p>
<p><u>Introduction to Engineering Design</u> 1 credit</p>	<p>880511 880512</p>	<p><i>Prerequisites:</i> Successful completion of Algebra (312011 and 312012 or 311011 and 311012 or 311013 and 311014)</p> <p><i>Description:</i> This course teaches problem-solving skills using a design development process. Using an industry-based solid modeling (3D) 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.</p>
<p><u>Introduction to Engineering Design—Honors</u> 1 credit</p>	 <p>880521 880522</p>	<p><i>Prerequisites:</i> Successful completion of Algebra (312011 and 312012 or 311011 and 311012 or 311013 and 311014)</p> <p><i>Description:</i> This course teaches problem-solving skills using a design development process. Using an industry-based solid modeling (3D) 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.</p>

<p><u>Digital Electronics</u> 1 credit</p>	<p>880611 880612</p>	<p><i>Prerequisites:</i> Successful completion of Algebra (312011 and 312012 or 311011 and 311012 or 311013 and 311014) and concurrent enrollment in Geometry (321011 and 321012 or 322021 and 322022)</p> <p><i>Description:</i> This 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.</p>
<p><u>Digital Electronics—Honors</u> 1 credit</p> 	<p>880621 880622</p>	<p><i>Prerequisites:</i> Successful completion of Algebra (312010 or 311010) and concurrent enrollment in Geometry (321010 or 322020)</p> <p><i>Description:</i> This course provides the student with experiences and activities to understand, construct, and operate combination 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. Transcribed credit and advanced standing are available. 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.</p>
<p><u>Manufacturing Process 1</u> ½ credit</p>	<p>881010</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course will allow students to learn how to use many tools and machines in the manufacturing of several products. Different manufacturing techniques will be covered, such as jig, fixtures, and mass production. Students will be exposed to several different types of</p>

		manufacturing materials, including woods, plastics, and metals. Safety, precision measuring, and blueprint reading are important areas of emphasis in this course.
<u>Manufacturing Process 2</u> ½ credit	881110	<p><i>Prerequisites:</i> Successful completion of Manufacturing Process 1 (881010) and/or teacher permission</p> <p><i>Description:</i> This course is designed to allow students to delve deeper into the world of manufacturing. Students will learn advanced techniques of manufacturing, such as milling, turning, and CNC applications. This course will use a project-oriented, hands-on approach to drive student learning. Students will use a variety of materials and learn the properties unique to those materials. There will be an emphasis on quality and pride on each project.</p>
<u>Introduction to Computer Programming/Robotics</u> ½ credit	881210	<p><i>Prerequisites:</i> Successful completion of Computer Applications (820311 and 820312) or Computer Applications for Information Technology (820111 and 820112)</p> <p><i>Description:</i> This course teaches basic programming concepts using the Q-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>
<u>Fundamentals of Engineering</u> 1 credit	 881311 881312	<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 will 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 or emulate the industrial processes will be studied</p>

		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. Upon successful completion of this course, the student may earn two Gateway credits for Course 628-100, Automated Manufacturing Concepts/Introduction.
<u>Mechanical Skills for Technicians</u> <small>3/4 credit</small>	 881510	<i>Prerequisites:</i> None <i>Description:</i> Do you wonder how things work? Did you take apart mechanical things to see what makes them tick? If so, then Mechanical Skills for Technicians is the course for you. This lab-based course consists of one lecture per week. The rest of the time you are working hands-on in the lab putting together systems that transfer power and other mechanical devices. In the labs you learn about and correctly build belt drives, chain drives, gear drives, bearings, lubrication, and much more. Taught as a contracted services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion.
<u>Mechanical Design (YAP)</u> <small>1 credit</small>	 888111 888112	<i>Prerequisites:</i> Successful completion of Computer Aided Design 1 (860110) or Introduction to Engineering Design (880511 and 880512) or Principles of Engineering (880411 and 880412), interview, and teacher permission required <i>Description:</i> The Mechanical Design Youth Apprenticeship Program (YAP) is a one- or two-year apprenticeship. Students earn credit and get paid for working for a local business. Students will receive a Certificate of Occupational Proficiency from the state upon successful completion of the program. Applications for the Youth Apprenticeship Program are available from your counselor.

<p><u>Manufacturing 1/Machining Youth Apprenticeship Program</u> 1 credit</p>	<p>888211 888212</p>	<p><i>Prerequisites:</i> Successful completion of Manufacturing Process 2 (881110) or enrollment in the LakeView Technology Academy automated manufacturing track</p> <p><i>Description:</i> The Manufacturing/Machining/Youth Apprenticeship Program is a one- or two-year apprenticeship. Students earn credit and get paid for working at a local business. Students will receive a Certificate of Occupational Proficiency from the state of Wisconsin upon successful completion of the program. Applications for the Youth Apprenticeship Program are available from students' counselors.</p>
<p><u>Introduction to Hydraulics and Pneumatics</u>  ¾ credit</p>	<p>889210</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Master the power of pressurized fluid! Compressed air is the force behind some of the fastest mechanisms in existence. When you need it moved and moved fast, pneumatics is the way to go. Uncountable machines, from robots (even First One 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. Sign up and you will study the fundamental principles and physical laws governing fluid power and pneumatics. 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><u>Quality for Automated Manufacturing</u>  ¾ credit</p>	<p>889310</p>	<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</p>

		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.
<u>Computer Aided Design Solids—Honors</u>  ½ credit	889320	<i>Prerequisites:</i> Successful completion of Computer-Aided Design 2 (860210) <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. This course is taught as a contracted services class by Gateway Technical College instructors. Students earn two Gateway credits upon successful completion.
<u>Computer-Assisted Programming/Robotics</u>  ¾ credit	889410	<i>Prerequisites:</i> None <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.
<u>DC/AC Principles—Honors</u>  ¾ credit	889510	<i>Prerequisites:</i> None <i>Description:</i> Almost everything in the world is run or controlled by electricity and electronics. DC/AC (Direct Current/Alternating Current) Principles—Honors—is a fundamental course in electronics that gives you an understanding of current, voltage, resistance, capacitance, inductance, and power. The course provides an excellent foundation for further study in electronics or automation and is a great course to take before Digital Electronics or any other more advanced electronics course. Taught as a contracted

		services class by Gateway Technical College instructors, students earn three Gateway credits upon successful completion. Those credits transfer into several different Gateway Technical College programs. These programs can lead to degrees not only at Gateway but at four-year universities.
<u>CNC/CAM Programming</u> <small>3/4 credit</small>	 889710	<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:</p> <ol style="list-style-type: none"> 1. Position, 2. Form, 3. Orientation, 4. Run out, and 5. Profile. <p>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>
<u>Computer-Integrated Manufacturing (CIM)—Honors</u> <small>1 credit</small>	 889721 889722	<p><i>Prerequisites:</i> Successful completion of Introduction to Engineering Design (880511 and 880512 or 880521 and 880522) or teacher permission required</p> <p><i>Description:</i> Students learn robotics concepts and automated manufacturing by creating 3D 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>
<u>Engineering Design and Development—Honors</u> <small>1/2 credit</small>	 889922	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> 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</p>

		College instructors, students earn four Gateway credits upon successful completion of the course.
<u>Communications</u> ½ credit	890110	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This is the first in the graphic technologies course series. The student should take this course 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.</p>
<u>Graphic Communications</u> ½ credit	890210	<p><i>Prerequisites:</i> Communications (890110)</p> <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>
<u>Multimedia Production 1</u> 1 credit	890411 890412	<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>Indian Trail Academy only</p>

<p><u>Multimedia Production 2</u> 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>Indian Trail Academy only</p>
<p><u>Digital Imaging</u> ½ credit</p>	<p>890710</p>	<p><i>Prerequisites:</i> Communications (890110) or Graphic Communications (890210)</p> <p><i>Description:</i> This is the third course in the graphic technologies series. This course places emphases on the capture and manipulation of digital images, which includes the study of various imaging technologies as well as the study of automated camera subsystems. The theory of digital image capture and the numerical application of color management as it relates to creation of custom color spaces for print and Web applications is explored. Students will use various digital cameras and scanning equipment and professional software to create properly color-corrected images.</p>
<p><u>Principles of Emergency Services</u> ¾ credit</p>	<p>899110</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course provides an overview of fire protection, career opportunities in fire protection and related fields, philosophy and history of fire protection service, fire loss analysis, organization and function of public and private fire protection services, fire departments as part of local government, laws and regulations affecting the fire service, and fire service nomenclature. This course is taught as a contracted service class by Gateway Technical College instructors. Students earn three Gateway credits upon successful completion. Applications are available from your counselor.</p>

<p><u>Introduction to Criminal Justice System</u></p> <p>¾ credit</p> 	<p>899210</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course will show the various elements of the criminal justice system and how they relate, the role that law enforcement plays, and the importance of professionalism in law enforcement. This course is taught as a contracted service class by Gateway Technical College instructors. Students earn three Gateway credits upon successful completion. Applications are available from your counselor.</p>
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FINE ARTS

ART COURSES

<p><u>Introduction to High School Art</u> 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><u>Introduction to High School Art—Honors</u> 1 credit</p>	<p>510221 510222</p>	<p><i>Prerequisites:</i> Teacher permission required</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><u>Fundamentals of Art/Design</u> 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</p>

		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, 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.
<u>Fundamentals of Art/Design—Honors</u> 1 credit	510421 510422	<i>Prerequisites:</i> Teacher permission required 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.
<u>Foundations of Design/Drawing</u> 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.
<u>Advanced Placement Art History</u> ½ 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.
<u>Draw/Paint/Printmaking 1</u> 1 credit	520111 520112	<i>Prerequisites:</i> Successful completion of Introduction to High School Art (510111 and 510112 or 510221 and 510222) <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.
<u>Draw/Paint/Printmaking 1—Honors</u> 1 credit	520221 520222	<i>Prerequisites:</i> Teacher permission required Successful completion of Introduction to High School Art (510111 and 510112 or 510221 and 510222) <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.
<u>Draw/Paint/Printmaking 2</u> 1 credit	520311 520312	<i>Prerequisites:</i> Successful completion of Draw/Paint/Printmaking 1 (520111 and 520112 or 520221 and 520222) <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.
<u>Draw/Paint/Printmaking 2—Honors</u> 1 credit	520421 520422	<i>Prerequisites:</i> Successful completion of Draw/Paint/Printmaking 1 (520111 and 520112 or 520221 and 520222) and teacher permission required <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.
<u>Draw/Paint/Printmaking 3</u> 1 credit	520511 520512	<i>Prerequisites:</i> Successful completion of Draw/Paint/Printmaking 2 (520311 and 520312 or 520421 and 520422) and teacher permission required <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: 1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter.

		<ol style="list-style-type: none"> 2. Do research appropriate for each project. 3. Keep a sketchbook of ideas, drawings, and notes from throughout the year. 4. Complete the work contracted each term. 5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate.
<p><u>Draw/Paint/Printmaking 3—Honors</u> 1 credit</p>	<p>520621 520622</p>	<p><i>Prerequisites:</i> Successful completion of Draw/Paint/Printmaking 2 (520311 and 520312 or 520421 and 520422) and teacher permission required</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"> 1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter. 2. Do research appropriate for each project. 3. Keep a sketchbook of ideas, drawings, and notes from throughout the year. 4. Complete the work contracted each term. 5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate. <p>Additional honors requirements as assigned by the teacher are required for this course.</p>

<p><u>Advanced Placement Studio Art: Drawing</u> 1 credit</p>	<p>520731 520732</p>	<p><i>Prerequisites:</i> Successful completion of Draw/Paint/Printmaking 2 (520311 and 520312 or 520421 and 520422) and teacher permission required</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"> 1. Quality 2. Concentration (including written commentary), and 3. Breadth. <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><u>Advanced Placement Studio Art: 2D Design</u> 1 credit</p>	<p>520831 520832</p>	<p><i>Prerequisites:</i> Teacher permission required and successful completion of 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"> 1. Quality, 2. Concentration (including written commentary), and

		<p>3. Breadth.</p> <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><u>Graphic Design and Illustration 1</u> 1 credit</p>	<p>520911 520912</p>	<p><i>Prerequisites:</i> Successful completion of 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>Indian Trail Academy only</p>
<p><u>Graphic Design and Illustration 2</u> 1 credit</p>	<p>521011 521012</p>	<p><i>Prerequisites:</i> Successful completion of 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>Indian Trail Academy only</p>

<p><u>Correlations of Design and Graphics</u> 1 credit</p>	<p>521111 521112</p>	<p><i>Prerequisites:</i> Indian Trail Academy—Communications Academy student and successful completion of 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>Indian Trail Academy only</p>
<p><u>Illustration Media Concepts</u> 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>Indian Trail Academy only</p>
<p><u>Ceramics/Sculpture/ Metals 1</u> 1 credit</p>	<p>530111 530112</p>	<p><i>Prerequisites:</i> Successful completion of one of the following:</p> <ol style="list-style-type: none"> 1. Introduction to High School Art (510111 and 510112 or 510221 and 510222), 2. Fundamentals of Art/Design (510311 and 510312 or 510421 and 510422), or 3. Teacher permission. <p><i>Description:</i> This course emphasizes the three-dimensional arts. Attention is given to the</p>

		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.
<u>Ceramics/Sculpture/ Metals 1—Honors</u> 1 credit	530221 530222	<p><i>Prerequisites:</i> Successful completion of one of the following:</p> <ol style="list-style-type: none"> 1. Introduction to High School Art (510111 and 510112 or 510221 and 510222), 2. Fundamentals of Art/Design (510311 and 510312 or 510421 and 510422), or 3. Teacher permission. <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>
<u>Ceramics/Sculpture/ Metals 2</u> 1 credit	530311 530312	<p><i>Prerequisites:</i> Successful completion of Ceramics/Sculpture/Metals 1 (530111 and 530112 or 530221 and 530222) and teacher permission required</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</p>

		advanced student. All areas of study will incorporate the elements and principles of design as well as the historical origins.
<u>Ceramics/Sculpture/ Metals 2—Honors</u> 1 credit	530421 530422	<p><i>Prerequisites:</i> Successful completion of Ceramics/Sculpture/Metals 1 (530111 and 530112 or 530221 and 530222) and teacher permission required</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>
<u>Ceramic/Sculpture/Metals 3</u> 1 credit	530511 530512	<p><i>Prerequisites:</i> Successful completion of Ceramics/Sculpture/Metals 2 (530311 and 530312 or 530421 and 530422) and teacher permission required</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"> 1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter. 2. Do research appropriate for each project.

		<ol style="list-style-type: none"> 3. Keep a sketchbook of ideas, drawings, and notes throughout the year. 4. Complete the work contracted each term. 5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate.
<p><u>Ceramics/Sculpture/</u> <u>Metals 3—Honors</u> 1 credit</p>	530621 530622	<p><i>Prerequisites:</i> Successful completion of Ceramics/Sculpture/Metals 2 (530311 and 530312 or 530421 and 530422) and teacher permission required</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"> 1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter. 2. Do research appropriate for each project. 3. Keep a sketchbook of ideas, drawings, and notes throughout the year. 4. Complete the work contracted each term. 5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate. <p>Additional honors requirements as assigned by the teacher are required for this course.</p>

<p><u>Advanced Placement Studio Art: 3D Design</u> 1 credit</p>	<p>530731 530732</p>	<p><i>Prerequisites:</i> Ceramics/Sculpture/Metals 2 (530311 and 530312 or 530421 and 530422) and teacher permission</p> <p><i>Description:</i> This course is available for grades 11 and 12. Advanced Placement Studio Art: 3D 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"> 1. Quality, 2. Concentration (including written commentary), and 3. Breadth. <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: 3D 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.</p>
<p><u>Photography 1</u> 1 credit</p>	<p>540111 540112</p>	<p><i>Prerequisites:</i> Successful completion of 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. Students are required to purchase enlarging paper and film for this course.</p>

<p><u>Photography 1—Honors</u> 1 credit</p>	<p>540221 540222</p>	<p><i>Prerequisites:</i> Successful completion of 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. Students are required to purchase enlarging paper and film for this course. Additional honors requirements as assigned by the teacher are required for this course.</p>
<p><u>Photography 2</u> 1 credit</p>	<p>540311 540312</p>	<p><i>Prerequisites:</i> Successful completion of Photography 1 (540111 and 540112 or 540221 and 540222) and teacher permission required</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. Students are required to purchase enlarging paper and film.</p>
<p><u>Photography 2—Honors</u> 1 credit</p>	<p>540421 540422</p>	<p><i>Prerequisites:</i> Successful completion of Photography 1 (540111 and 540112 or 540221 and 540222) and teacher permission required.</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</p>

		<p>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 students have a 35mm camera. Students are required to purchase enlarging paper and film. Additional honors requirements as assigned by the teacher are required for this course.</p>
<p><u>Photography 3</u> 1 credit</p>	<p>540511 540512</p>	<p><i>Prerequisites:</i> Successful completion of Photography 2 (540311 and 540312 or 540421 and 540422) and teacher permission required</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"> 1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter. 2. Do research appropriate for each project. (Students are required to purchase enlarging paper and film.) 3. Keep a portfolio of ideas, images, and notes throughout the year. 4. Complete the work contracted each term. 5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate.

<p><u>Photography 3—Honors</u> 1 credit</p>	<p>540621 540622</p>	<p><i>Prerequisites:</i> Successful completion of Photography 2 (540311 and 540312 or 540421 and 540422) and teacher permission required</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 interest. Students will work on both assigned and teacher-approved independent projects. Students will be required to:</p> <ol style="list-style-type: none"> 1. Write a course proposal with the cooperating teacher outlining the projects to be accomplished each quarter. 2. Do research appropriate for each project. (Students are required to purchase enlarging paper and film.) 3. Keep a portfolio of ideas, images, and notes throughout the year. 4. Complete the work contracted each term. 5. Prepare a portfolio for art school admissions, scholarship competitions, or advanced placement where appropriate. <p>Additional honors requirements as assigned by the teacher are required for this course.</p>
<p><u>Intro to Digital Photography</u> 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

<p><u>Concert Band</u> 1 credit</p>	<p>550311 550322</p>	<p><i>Prerequisites:</i> Previous instrumental experience and teacher permission required</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.</p>
<p><u>Concert Band—Honors</u> 1 credit</p>	<p>550421 550422</p>	<p><i>Prerequisites:</i> Previous instrumental experience and teacher permission required</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.</p>
<p><u>Symphonic Band</u> 1 credit</p>	<p>550511 550512</p>	<p><i>Prerequisites:</i> Previous instrumental experience and teacher permission required</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 musical independence as well as ensemble performance skills. Performance responsibilities include</p>

		participation at all concerts, rehearsals, and sectionals and responsible preparation of the music. Time outside the normal school day may be required.
<u>Symphonic Band—Honors</u> 1 credit	550621 550622	<p><i>Prerequisites:</i> Previous instrumental experience and teacher permission required</p> <p><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.</p>
<u>Wind Ensemble</u> 1 credit	550911 550912	<p><i>Prerequisites:</i> Audition and teacher permission required</p> <p><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.</p>
<u>Wind Ensemble—Honors</u> 1 credit	551021 551022	<i>Prerequisite:</i> Audition and teacher permission required

		<p><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.</p>
<p><u>Jazz Ensemble</u> 0 credits</p>	<p>551111 551112</p>	<p><i>Prerequisites:</i> Previous enrollment in music program and teacher permission required</p> <p><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.)</p>
<p><u>Treble Choir</u> 1 credit</p>	<p>560111 560112</p>	<p><i>Prerequisites:</i> Prior singing experience is helpful. Females only</p> <p>Teacher permission required</p> <p><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</p>

		attitude toward development of talents and skills; and responsible preparation of the music. Time outside the normal school day may be required.
<u>Treble Choir—Honors</u> 1 credit	560221 560222	<i>Prerequisites:</i> Prior singing experience is helpful. Females only Teacher permission required <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.
<u>Concert Choir</u> 1 credit	560311 560312	<i>Prerequisites:</i> Teacher permission required <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.
<u>Concert Choir—Honors</u> 1 credit	560421 560422	<i>Prerequisites:</i> Teacher permission required <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.
<u>A Cappella Choir</u> 1 credit	560911 560912	<i>Prerequisites:</i> Audition and teacher permission required <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.
<u>A Cappella Choir—Honors</u> 1 credit	561021 561022	<i>Prerequisites:</i> Audition and teacher permission required <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.
<u>Chorale</u> 1 credit	561111 561112	<i>Prerequisites:</i> Audition and teacher permission required <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 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.
<u>Chorale—Honors</u> 1 credit	561221 561222	<p><i>Prerequisites:</i> Audition and teacher permission required</p> <p><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.</p>
<u>Madrigal Singers</u> 0 credits	561510	<p><i>Prerequisites:</i> Previous enrollment in music program, audition, and teacher permission required</p> <p><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.)</p>
<u>Concert Orchestra</u> 1 credit	570111 570112	<p><i>Prerequisites:</i> Experience on string instruments</p> <p><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</p>

		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.
<u>Concert Orchestra—Honors</u> 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.
<u>Symphony Orchestra</u> 1 credit	570311 570312	<i>Prerequisites:</i> Audition and teacher permission required <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.
<u>Symphony Orchestra—Honors</u> 1 credit	570421 570422	<i>Prerequisites:</i> Audition and teacher permission required <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
<u>Chamber Orchestra</u> 0 credits	570510	<i>Prerequisites:</i> Teacher permission required <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.)
<u>Alternative Strings</u> 0 credits	570610	<i>Prerequisites:</i> Teacher permission required <i>Description:</i> Participation in the Alternative Strings is only offered to students already enrolled in the music program. Students will be performing various styles of music including: jazz, fiddle, and popular music. Students will learn improvisational skills. Performances at social, civic, state, and out-of-state events provide the student with the opportunity to 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.)
<u>Golden Strings</u> 0 credits	570710	<p><i>Prerequisites:</i> Tremper—teacher permission required</p> <p><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.)</p>
<u>Music: A Listener's Survey</u> ½ credit	570810	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<u>Music Theory—Honors</u> 1 credit	570921 570922	<p><i>Prerequisites:</i> Teacher permission required</p> <p><i>Description:</i> This course is available for grades 10 through 12. Music Theory is an academic music course which is designed to develop student comprehension of harmony, ear training, sight singing, music history, notation, arranging, keyboard composition, and counterpoint. Students will write music and gain a working knowledge of the elements and theory of music. Emphasis will be placed on individual musical growth and preparation for advance study of music at the college level.</p>

<p><u>Advanced Placement Music Theory</u> 1 credit</p>	<p>570931 570932</p>	<p><i>Prerequisites:</i> Successful completion of Music Theory—Honors</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><u>Roots/Blues Guitar</u> 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><u>Intro to Digital Composition</u> 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 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.</p>
<p><u>Digital Composition</u> ½ credit</p>	<p>571211 571212</p>	<p><i>Prerequisites:</i> Intro to Digital Composition (571210)</p>

		<p><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.</p>
<p><u>Intro to Recording Technology</u> ½ credit</p>	571410	<p><i>Prerequisites:</i> Intro to Digital Composition (571210) and Digital Composition (571211 and 571212)</p> <p><i>Description:</i> The students will build on skills learned in the previous two courses to develop expertise in live recording situations and mixing.</p>
<p><u>Recording Technology</u> ½ credit</p>	571511 571512	<p><i>Prerequisites:</i> Intro to Recording Technology (571410), Introduction to Digital Composition (571210), and Digital Composition (571211 and 571212)</p> <p><i>Description:</i> The students will build on the live recording and mixing learned in the previous course to create a final refined product.</p>
<p><u>Intro to Guitar Studies</u> ½ credit</p>	571610	<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><u>Guitar Studies 1</u> ½ credit</p>	571711 571712	<p><i>Prerequisites:</i> Intro to Guitar Studies (571610) or teacher recommendation</p> <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><u>Guitar Studies 2</u> ½ credit</p>	571811 571812	<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><u>Intro to World Drumming</u> ½ credit</p>	571910	<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><u>World Drumming 1</u> ½ credit</p>	572011 572012	<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><u>World Drumming 2</u> ½ credit</p>	572111 572112	<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

<p><u>Drama 1</u> ½ credit</p>	<p>580110</p>	<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><u>Drama 2</u> ½ credit</p>	<p>580210</p>	<p><i>Prerequisites:</i> Successful completion of 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><u>Drama 3</u> ½ credit</p>	<p>580310</p>	<p><i>Prerequisites:</i> Successful completion of 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><u>Acting 1</u> 1 credit</p>	<p>580411 580412</p>	<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 acting techniques. A four-year historical study</p>

		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.
<u>Acting 1—Honors</u> 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.
<u>Acting 2</u> 1 credit	580611 580612	<i>Prerequisites:</i> Successful completion of Acting 1 (580411 or 580412 or 580521 and 580522) and teacher permission <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.
<u>Acting 2—Honors</u> 1 credit	580721 580722	<i>Prerequisites:</i> Successful completion of Acting 1 (580411 and 580412 or 580521 and 580522) and teacher permission <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.
<u>Theatre Practicum</u> 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.
<u>Theatre Practicum—Honors</u> 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.
<u>Musical Theatre Vocal Techniques</u> 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.
<u>Musical Theatre Vocal Techniques—Honors</u> 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.
<u>Stagecraft 1</u> 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><u>Stagecraft 2</u> 1 credit</p>	<p>581511 581512</p>	<p><i>Prerequisites:</i> Successful completion of 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.</p>
<p><u>Stagecraft 2—Honors</u> 1 credit</p>	<p>581621 581622</p>	<p><i>Prerequisites:</i> Successful completion of Stagecraft 1 (581411 and 581412)</p> <p>Teacher permission required</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.</p>
<p><u>Scenic Design</u> 1 credit</p>	<p>581711 581712</p>	<p><i>Prerequisites:</i> Successful completion of 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.</p>
<p><u>Scenic Design—Honors</u> 1 credit</p>	<p>581821 581822</p>	<p><i>Prerequisites:</i> Successful completion of Stagecraft 1 (581411 and 581412)</p> <p>Teacher permission required</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</p>

		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.
<u>Stage Management Practicum</u> 1 credit	581911 581912	<i>Prerequisites:</i> None <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.

DANCE COURSES

<p><u>Introduction to Dance</u> 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"> 1. Ballet <ol style="list-style-type: none"> A. Alignment, B. Verticality, and C. Basic ballet movements; 2. Modern <ol style="list-style-type: none"> A. Basic movement and B. Basic form; and 3. Jazz <ol style="list-style-type: none"> A. Basic percussive style and B. Basic lyrical jazz style. <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><u>Dance 2</u> 1 or 2 credits</p>	<p>590211 590212</p>	<p><i>Prerequisites:</i> Successful completion of 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 well as performance presentation. This course does not meet physical education requirements.</p>
<p><u>Dance 3</u> 1 or 2 credits</p>	<p>590311 590312</p>	<p><i>Prerequisites:</i> Teacher permission/audition required</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>
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HEALTH AND PHYSICAL EDUCATION

HEALTH/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><u>Physical Education Foundations</u> 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 SPARKS 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><u>Lifetime Fitness</u> 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. SPARKS curriculum will continue with emphasis on team lessons.</p>

<p><u>Lifetime Fitness Elective</u> ½ elective credit</p>	<p>632010</p>	<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 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. SPARKS curriculum will continue with emphasis on team lessons.</p>
<p><u>Active Lifestyles</u> ½ credit</p>	<p>613010</p>	<p><i>Prerequisite:</i> Physical Education Foundations (611010)</p> <p><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. SPARKS curriculum will continue with emphasis on individual fitness building lessons.</p>
<p><u>Active Lifestyles Elective</u> ½ elective credit</p>	<p>633010</p>	<p><i>Prerequisites:</i> Graduation requirements in physical education must be completed to take this course.</p> <p><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. SPARKS curriculum will continue with emphasis on individual fitness building lessons.</p>
<p><u>Personal Fitness</u> ½ credit</p>	<p>614010</p>	<p><i>Prerequisites:</i> Physical Education Foundations (611010)</p> <p><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, SPARKS curriculum will be incorporated into lessons.</p>

<p><u>Personal Fitness Elective</u> ½ elective credit</p>	<p>634010</p>	<p><i>Prerequisites:</i> Graduation requirements in physical education must be completed to take this course.</p> <p><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, SPARKS curriculum will be incorporated into lessons.</p>
<p><u>Health Education</u> ½ credit</p>	<p>620110</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Physical Education: Specially Designed</u> ½ credit</p>	<p>664119</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This co-ed course fulfills a half-credit graduation requirement. Registration for this course is IEP driven.</p>

LITERACY

COURSES		
<p><u>Survey of Literature/Composition</u> 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><u>Survey of Literature/Composition—Honors</u> 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><u>World Literature/Composition</u> 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><u>World Literature/Composition—Honors</u> 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><u>American Literature/Composition</u> 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><u>American Literature/Composition—Honors</u> 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><u>Advanced Placement English Literature and Composition</u> 1 credit</p>	<p>124031 124032</p>	<p><i>Prerequisites:</i> Successful completion of honors literacy courses and/or teacher permission</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 successfully complete this class and take the Advanced Placement Examination to potentially earn college credit.</p>
<p><u>Advanced Placement English Language and Composition</u> 1 credit</p>	<p>125031 125032</p>	<p><i>Prerequisites:</i> Successful completion of honors literacy courses and/or teacher permission</p> <p><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.</p>
<p><u>Diverse Perspectives in Literature and Composition</u> 1 credit</p>	<p>131011 131012</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>

<p><u>Diverse Perspectives in Literature and Composition—Honors</u> 1 credit</p>	<p>131021 131022</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Journalism2</u> 1 credit</p>	<p>162011 162012</p>	<p><i>Prerequisites:</i> Successful completion of Journalism 1 (171010)</p> <p><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.</p>
<p><u>Journalism 2—Honors</u> 1 credit</p>	<p>162021 162022</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Journalism 1</u> ½ credit</p>	<p>171010</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>School Newspaper</u> 1 credit</p>	<p>172011 172012</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>

<p><u>School Newspaper—Honors</u> ½ credit</p>	<p>172020</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Yearbook</u> 1 credit</p>	<p>173011 173012</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Yearbook—Honors</u> 1 credit</p>	<p>173021 173022</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Digital Publication Design</u> 1 credit</p>	<p>174011 174012</p>	<p><i>Prerequisites:</i> None</p> <p><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</p>

		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.
<u>Digital Publication Design—Honors</u> 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.
<u>The Pulse Online Newspaper Internship</u> 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> . Indian Trail Academy only
<u>The Pulse—Honors</u> 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> . Indian Trail Academy only

MATHEMATICS

REGISTRATION GUIDELINES

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

GRADE	RECOMMENDED COURSE PATHWAY	OPTION 2
9	Geometry OR Geometry—Honors	Algebra 1 <i>(Administrator Placement Only)</i>
10	Algebra 2 OR Algebra 2/Trigonometry—Honors OR Math Applications	Geometry OR Geometry—Honors
11	<u>Choose from:</u> Math Analysis Precalculus—Honors Advanced Placement Statistics Probability and Statistics (1/2 credit) Trigonometry (1/2 credit)	Algebra 2 OR Algebra 2/Trigonometry—Honors OR Math Applications
12	<u>Choose from:</u> Advanced Placement Calculus BC (2 credits) <i>(Precalculus—Honors—is a prerequisite.)</i> Advanced Placement Statistics Probability and Statistics (1/2 credit)	<u>Choose from:</u> Math Analysis Precalculus—Honors Advanced Placement Statistics Probability and Statistics (1/2 credit) Trigonometry (1/2 credit)

COURSES

<u>Algebra 1</u> 1 credit	312011 312012	<i>Prerequisites:</i> Administrator placement only <i>Description:</i> This course includes the study of rational number properties, variables, polynomials, and factoring. Students learn to write, solve, and graph linear and quadratic equations and to
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		<p>solve systems of equations. They also learn to model real-world applications, including statistics and probability investigations.</p>
<p><u>Geometry</u> 1 credit</p>	<p>321011 321012</p>	<p><i>Prerequisites:</i> Successful completion of Algebra 1 (311011 through 311014 or 312011 and 312012)</p> <p><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 develop deductive reasoning skills as they complete basic proofs relating to these figures. Algebra is integrated throughout the course. Students study topics such as congruence and similarity properties of lines, triangles, quadrilaterals, and circles; areas; volumes; coordinate geometry; and right triangle trigonometry.</p>
<p><u>Geometry—Honors</u> 1 credit</p>	<p>322021 322022</p>	<p><i>Prerequisites:</i> Successful completion of Algebra 1 (312011 and 312012) and teacher permission</p> <p><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. This course also includes direct, indirect, and auxiliary proofs relating to these figures. Students experience extensive proofs involving both deductive and inductive reasoning and continue to develop their algebra skills. They complete challenging problems and extend their study of right triangle trigonometry as they apply these concepts to deeper applications.</p>
<p><u>Math Applications</u> 1 credit</p>	<p>330511 330512</p>	<p><i>Prerequisites:</i> Successful completion of Geometry (321011 and 321012)</p> <p><i>Description:</i> Math Applications focuses on the practical skills needed in a wide variety of trade and technical areas and everyday situations. Students use direct, practical approaches that emphasize careful, complete explanations and applications. The use of calculators as a necessary tool for workers in trade and technical areas allows students to solve real-world problems while focusing on the concept and reasonableness</p>

		of the answer. This course may not fulfill requirements for admission to a four-year state university.
<u>Algebra 2</u> 1 credit	331011 331012	<i>Prerequisites:</i> Successful completion of Geometry (321011 and 321012) <i>Description:</i> Students solve and graph linear and quadratic equations and inequalities, absolute value equations and inequalities, and systems of linear and quadratic equations and inequalities. Students also simplify radicals and complex numbers; solve radical equations, determinants, and polynomial functions; and perform operations on matrices. Students learn to model real-world situations using functions to solve those problems.
<u>Algebra 2/Trigonometry—Honors</u> 1 credit	332021 332022	<i>Prerequisites:</i> Successful completion of Geometry—Honors (322021 and 322022) <i>Description:</i> This course is an in-depth study of linear and quadratic equations and inequalities, polynomial functions, radicals, systems of linear and quadratic equations and inequalities, number line graphing, and coordinate plane graphing. There is discussion of the conic sections, analytical geometry, determinants, matrices, complex numbers, and rational expressions. Students learn to use the trigonometric functions and their inverses and apply the law of sines and cosines. This course prepares students for the rigor of Precalculus.
<u>Probability and Statistics</u> ½ credit	341010	<i>Prerequisites:</i> Successful completion of Algebra 2 (331011 and 331012) <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.
<u>Trigonometry</u> ½ credit	342010	<i>Prerequisites:</i> Successful completion of Algebra 2 (331011 and 331012) <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 Math Analysis.
<u>Advanced Placement Statistics</u> 1 credit	343031 343032	<i>Prerequisites:</i> Successful completion of Algebra 2 (331011 and 331012) or Algebra 2/Trigonometry (332021 or 332022) <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.
<u>Math Analysis</u> 1 credit	351011 351012	<i>Prerequisites:</i> Successful completion of Algebra 2 (331011 and 331012) <i>Description:</i> This course is an extension of Algebra 2/Trigonometry. Algebra 2/Trigonometry skills and concepts are reinforced and strengthened. The graphing calculator is introduced as an aide in the study of nonlinear functions, such as rational and polynomial functions.
<u>Precalculus</u> 1 credit	352011 352012	<i>Prerequisites:</i> Successful completion of Algebra 2/Trigonometry—Honors (332021 and 332022)—or Math Analysis (351011 and 351012) <i>Description:</i> This course is designed to prepare the student for the rigorous study of Advanced Placement Calculus. Precalculus includes the study of the following variety of functions and their graphs: linear, absolute value, square root, greatest integer, quadratic, cubic, higher order polynomial, rational, exponential, logarithmic,

		<p>trigonometric, inverse sine, inverse cosine, and inverse tangent. Other topics included in this course are analytic trigonometry, inverses, sequences, series, limits, derivatives, and graphing.</p> <p>Indian Trail Academy only</p>
<p><u>Precalculus—Honors</u> 1 credit</p>	<p>352021 352022</p>	<p><i>Prerequisites:</i> Successful completion of Algebra 2/Trigonometry—Honors (332021 and 332022)—or Math Analysis (351011 and 351012)</p> <p><i>Description:</i> This course is designed to prepare the student for the rigorous study of Advanced Placement Calculus. Precalculus includes the study of the following variety of functions and their graphs: linear, absolute value, square root, greatest integer, quadratic, cubic, higher order polynomial, rational, exponential, logarithmic, trigonometric, inverse sine, inverse cosine, and inverse tangent. Other topics included in this course are analytic trigonometry, inverses, sequences, series, limits, derivatives, and graphing.</p>
<p><u>Advanced Placement Calculus AB</u> 1 credit</p>	<p>353031 353032</p>	<p><i>Prerequisites:</i> Honors Precalculus (352020) or equivalent with a grade of B or better or teacher recommendation</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"> • Functions, • Use of graphs, • Derivatives and their applications, • Differentials, • Limits, • Integrals and their applications, and • Differential equations. <p>The course prepares students for second semester college courses. It is strongly recommended that students who successfully complete this class take</p>

		the Advanced Placement Calculus examination in the spring, which could result in earning college credit.
<u>Advanced Placement Calculus BC</u> 2 credits	354031 354032 354033 354034	<i>Prerequisites:</i> Successful completion of Precalculus (352021 and 352122) and teacher permission <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 designed to qualify the student for placement and credit in a course that is one course beyond that granted for Calculus AB at the college level.

SCIENCE

REGISTRATION GUIDELINES

Each student is required to complete three* credits in science for high school graduation. Please follow the guidelines below and the recommendations of your science teachers.

Grade 9	Biology or Biology—Honors Biotechnology or Biotechnology—Honors
Grade 10	Chemistry, Chemistry—Honors, or Matter and Energy
Grades 11 and 12	Science courses of your choice to complete the three-credit requirement Use teacher recommendations and prerequisites as guides when choosing courses.

*All students must successfully complete one of the grade 9 courses above and one credit that incorporates a physical science (e.g., Chemistry, Physics, Matter and Energy) plus one elective in science.

Course offerings may vary by school.

COURSES		
<u>Lab Tech and Equipment</u> 1 credit	411511 411512	<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. Units included are:</p> <ul style="list-style-type: none"> • Following Procedures, • Documentation, • Using a Computer to Process Information, • Safety and First Aid Basics, • Metric Measurement,

		<ul style="list-style-type: none"> • Pipetting and Glassware Techniques, • Measurement of Mass and Volume, • Preparation of Solutions, and • The Use of Electronic Probes and Graphing Calculators. <p>Indian Trail Academy only</p>
<p><u>Biotechnology</u> 1 credit</p>	<p>411811 411812</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Biotechnology covers the major topics in biology with the added aspect of applying what students learn using technology. The course combines a hands-on laboratory approach with traditional methods. Its foundation is built upon learning the tools of scientific investigation. Collection, organization, and analysis of data supported by mathematical applications and computer technology will be threaded throughout the course. The following topics will be studied:</p> <ul style="list-style-type: none"> • Scientific method, • Characteristics of life, • Cells, • Heredity, • Evolution, • Classification, • Ecology, • Microbiology, • Plants, • Animals, and • Forensic science. <p><u>Note:</u> This course is not open to students who have successfully completed Biotechnology—Honors.</p>
<p><u>Biotechnology—Honors</u> 1 credit</p>	<p>411821 411822</p>	<p><i>Prerequisites:</i> Teacher recommendation</p> <p><i>Description:</i> Biotechnology—Honors—provides a strong foundation in biology with the added aspect of applying what students learn using technology. In this course students will learn about cells, genetics, microbes, and plant and</p>

		<p>animal physiology. In addition, ecology, classification, and changes over time are addressed. The biotechnology aspects include forensic and genetic labs and discussions of the technological applications and biotechnical issues associated with these topics. The course combines a hands-on laboratory approach with traditional methods. Collection, organization, and analysis of data supported by mathematical applications and computer technology will be threaded throughout the course. The interdependence of living organisms from the cellular level to complex ecosystems will be studied and applied to real-life situations. Biotechnology—Honors—students are required to do supplementary projects, including a science fair project.</p>
<p><u>Biology</u> 1 credit</p>	<p>421011 421012</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> In Biology students explore how living things function, interact with their environment, and change over time. In this course students will study the domains of life through an examination of the anatomy, physiology, and ecological significance of representative organisms.</p>
<p><u>Biology—Honors</u> 1 credit</p>	<p>421021 421022</p>	<p><i>Prerequisites:</i> Teacher recommendation</p> <p><i>Description:</i> Biology—Honors—is the study of how living things function, interact with their environment, and change over time. This course will examine all domains of life. Required lab work is included in this class that will reinforce the essential concepts of structure and function of representative organisms. Biology—Honors—puts a strong emphasis on in-depth critical thinking and independent work. This course prepares the student for courses like Human Anatomy and Physiology and Advanced Placement Biology.</p>
<p><u>Accelerated Biology</u> 1 credit</p>	<p>421111 421112</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Accelerated Biology is the study of how living things function, interact with their environment, and change over time. This course will examine all domains of life. Required lab work is included in this class that will reinforce</p>

		<p>the essential concepts of structure and function of representative organisms. Accelerated Biology puts a strong emphasis on in-depth critical thinking and independent work.</p> <p>Indian Trail Academy only</p>
<p><u>Human Biology</u> 1 credit</p>	<p>422011 422012</p>	<p><i>Prerequisites:</i> Successful completion of Biology or Biology—Honors</p> <p><i>Description:</i> In this course students will focus on human biology: 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><u>Note:</u> Not open to students who have successfully completed Human Anatomy and Physiology</p>
<p><u>Animal Survey</u> 1 credit</p>	<p>422111 422112</p>	<p><i>Prerequisites:</i> Successful completion of 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>Indian Trail Academy only</p>
<p><u>Forensic Science</u> ½ credit</p>	<p>422210</p>	<p><i>Prerequisites:</i> Successful completion of Biology or Biology—Honors—and Chemistry or Chemistry—Honors</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><u>Genetics</u> ½ credit</p>	<p>423110</p>	<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"> • Cell division, • Mitosis, • Meiosis, • Dominant and recessive genes, • Hybridization, • Mutation, • Inherited diseases, • DNA molecular patterns, • RNA, Protein synthesis, • Expression of traits, and • Methods of analysis. <p>Indian Trail Academy only</p>
<p><u>Human Anatomy and Physiology</u> 1 credit</p>	<p>423211 423212</p>	<p><i>Prerequisites:</i> Successful completion of Biology and Chemistry</p> <p><i>Description:</i> This class highlights the systems that make up the human body: circulatory, respiratory, digestive, reproductive, muscular, skeletal, and nervous. The interdependence of the systems and the breakdown of these systems are studied. A substantial amount of laboratory experience will be involved either through actual lab work or computerized simulations.</p> <p>Indian Trail Academy only</p>
<p><u>Human Anatomy and Physiology—Honors</u> 1 credit</p>	<p>423221 423222</p>	<p><i>Prerequisites:</i> Successful completion of Biology or Biology—Honors—and Chemistry or Chemistry—Honors</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><u>Advanced Placement Biology</u> 2 credits</p>	<p>424531 424532 424533 424534</p>	<p><i>Prerequisites:</i> Successful completion of Biology or Biology—Honors—and Chemistry or Chemistry—Honors—or teacher recommendation</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 a one-block period that meets every day all school year.</p>
<p><u>Chemistry</u> 1 credit</p>	<p>431011 431012</p>	<p><i>Prerequisites:</i> Successful completion of Biology and Algebra 1</p> <p><i>Description:</i> Chemistry is a lab-oriented course in which students are introduced to concepts traditionally covered in first-year chemistry. Topics include: atomic structure, electron configuration, periodic properties of the elements, chemical bonding, chemical calculations, chemical equations, and the gas laws. Throughout the term the Kinetic Molecular Theory is constantly stressed. Students will use the process skills of analyzing data, inquiry, and problem solving and study concepts of chemistry to increase their understanding of current technology-related problems and awareness of the impact that chemistry has on society.</p> <p><i>Note:</i> Not open to students who have successfully completed Chemistry—Honors</p>
<p><u>Chemistry—Honors</u> 1 credit</p>	<p>431021 431022</p>	<p><i>Prerequisites:</i> Successful completion of Biology, Algebra 1, and Geometry</p>

		<p><i>Description:</i> Chemistry—Honors—is a laboratory-oriented course designed to develop an understanding of the basic concepts of chemistry. Topics include the nature of matter; chemical and physical changes; atomic structure; chemical bonding; chemical formulas and equations; naming compounds; stoichiometry; and the structure and properties of gases, liquids, and solids. This course is highly recommended for students considering science and engineering careers.</p>
<p><u>Accelerated Chemistry</u> 1 credit</p>	<p>431111 431112</p>	<p><i>Prerequisites:</i> Successful completion of Biology, Algebra 1, and Geometry</p> <p><i>Description:</i> Accelerated Chemistry is a laboratory-oriented course designed to develop an understanding of the basic concepts of chemistry. Topics include:</p> <ul style="list-style-type: none"> • The nature of matter; • Chemical and physical changes; • Atomic structures; • Chemical bonding, formulas, and equations; • Naming compounds; • Stoichiometry; and • The structures and properties of gases, liquids, and solids. <p>This course is highly recommended for students considering science and engineering careers.</p> <p>Indian Trail Academy only</p>

<p><u>Matter and Energy</u> 1 credit</p>	<p>432911 432912</p>	<p><i>Prerequisites:</i> Successful completion of Biology and Algebra 1</p> <p><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 the scientific process.</p> <p><u>Note:</u> Not open to students who have successfully completed Chemistry, Chemistry—Honors, Conceptual Physics, or Physics—Honors</p>
<p><u>Advanced Placement Chemistry</u> 2 credits</p>	<p>434531 434532 434533 434534</p>	<p><i>Prerequisites:</i> Successful completion of Chemistry—Honors—and Algebra 2/Trigonometry—Honors</p> <p><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 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.</p>
<p><u>Conceptual Physics</u> 1 credit</p>	<p>441011 441012</p>	<p><i>Prerequisites:</i> Successful completion of Biology and Algebra 1</p> <p><i>Description:</i> In this course students focus on concepts and applications of physics, including laboratory investigations. The students will gain a greater understanding of the laws of physics that surround them. Students will develop an understanding of the concepts underlying the phenomena of motion, force, energy, matter, sound, electricity, magnetism, light, and the atom.</p> <p><u>Note:</u> Not open to those students who have successfully completed Physics—Honors</p>

<p><u>Physics—Honors</u> 1 credit</p>	<p>441021 441022</p>	<p><i>Prerequisites:</i> Successful completion of Chemistry—Honors—and Algebra 2/Trigonometry—Honors</p> <p><i>Description:</i> In this course students use a math-based approach to gain an introductory understanding of the field of physics. Topics include a mathematics review; motion; forces; work; energy; properties of solids, liquids, and gases; elasticity; thermodynamics; acoustics (sound); optics (light); electricity and magnetism; and modern physics. This course is highly recommended for students considering science and engineering careers.</p>
<p><u>Accelerated Physics</u> 1 credit</p>	<p>441111 441112</p>	<p><i>Prerequisites:</i> Successful completion of Chemistry—Honors—and Algebra 2/Trig—Honors</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"> • A mathematics review; • Motion, forces, work, and energy; • Properties of solids, liquids, and gases; • Elasticity; • Thermodynamics; • Acoustics (sound); • Optics (light); • Electricity and magnetism; and • Modern physics. <p>This course is highly recommended for students considering science and engineering careers. Upon successful completion of this course with a final grade of B or higher, the student may earn three Gateway Technical College credits for Course 806-154 General Physics 1.</p> <p>Indian Trail Academy only</p>
<p><u>Advanced Placement Physics 1</u></p>	<p>444531 444532</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> Advanced Placement Physics 1 is an algebra-based introductory college-level physics course that explores topics such as Newtonian</p>

		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 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.
<u>Advanced Placement Physics 2</u>	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"> • Fluid statics and dynamics; • Thermodynamics with kinetic theory; • Pressure-volume diagrams and probability; • Electrostatics; • Electrical circuits with capacitors; • Magnetic fields; • Electromagnetism; • Physical and geometric optics; and • Quantum, atomic, and nuclear physics. <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>
<u>Advanced Placement Physics C: Mechanics</u> 1 credit	444631 444632	<p><i>Prerequisites:</i> Successful completion of Physics—Honors—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 (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"> • Kinematics; • Newton’s Laws of Motion; • Work, energy and power; • Systems of particles and linear momentum; • Circular motion and rotation; and • Oscillations and gravitation. <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><u>Geology</u> 1 credit</p>	<p>451011 451012</p>	<p><i>Prerequisites:</i> Successful completion of Biology</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, geological time, and plate tectonics (which includes the study of volcanoes and earthquakes) will provide a foundation for further study of geosciences.</p> <p><u>Note:</u> Not open to students who have successfully completed Geology—Honors</p>
<p><u>Geology—Honors</u> 1 credit</p>	<p>451021 451022</p>	<p><i>Prerequisites:</i> Successful completion of Biology</p> <p><i>Description:</i> Using rocks, minerals, and maps as a foundation, students will learn about the history of the earth and its implications for the future. The class will focus primarily on the geology of the United States and the geologic events that have shaped our continent. Throughout the</p>

		course sequence, various careers in geology will be investigated; and a background for field applications will be provided.
<u>Geoscience and Astronomy</u> 1 credit	454011 454012	<i>Prerequisites:</i> None <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. Indian Trail Academy only
<u>Astronomy</u> 1 credit	461011 461012	<i>Prerequisites:</i> Successful completion of Biology <i>Description:</i> Students will study the universe as they cover the following topics: history of astronomy, gravity and motion, planets, stars, galaxies, and the structure of the universe. This course places an emphasis on how astronomers gather information about distant objects without leaving the earth.
<u>Ecology</u> 1 credit	472111 472112	<i>Prerequisites:</i> Successful completion of Biology <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.
<u>Advanced Placement Environmental Science</u> 1 credit	474731 474732	<i>Prerequisites:</i> None <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 inter-relationships 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.
<u>Principles of Biomedical Science—Honors</u> 1 credit	481021 481022	<i>Prerequisites:</i> Biotechnology or Biology 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.
<u>Human Body Systems—Honors</u> 1 credit	482021 482022	<i>Prerequisites:</i> Principles of Biomedical Science 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.
<u>Medical Interventions—Honors</u> 1 credit	483021 483022	<i>Prerequisites:</i> Principles of Biomedical Engineering and Human Body Systems <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>Principles of Engineering</u> 1 credit	 482111 482112	<i>Prerequisites:</i> Successful completion of Algebra (312011 and 312012 or 311011 and 311012) 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.

<p><u>Principles of Engineering—Honors</u> 1 credit</p> 	<p>482121 482122</p>	<p><i>Prerequisites:</i> Successful completion of Algebra (312011 and 312012 or 311011 and 311012) and concurrent enrollment in Geometry (321011 and 321012 or 322021 and 322022)</p> <p><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>
<p><u>Biomedical Innovation—Honors</u> 1 credit</p>	<p>484021 484022</p>	<p><i>Prerequisites:</i> None</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>

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. In the instance where a student successfully completes one credit of Advanced Placement Government and Politics and has completed one credit of U.S. History and one credit of World History, the student has met the required three credits of social studies for graduation. Students planning on attending an institution of higher education are encouraged to take a behavioral science course.

Note: Students who complete one-half credit of Economics/Economics—Honors—or complete one credit of Advanced Placement Economics 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"> U.S. History or U.S. History—Honors 				
10	<ul style="list-style-type: none"> World History or World History—Honors 		<p>One-half credit of behavioral science requirement or . . .</p> <p><u>Elective</u></p> <ul style="list-style-type: none"> Ethnic Studies Ethnic Studies—Honors 		<p><u>Electives</u></p> <ul style="list-style-type: none"> Global Studies Global Studies—Honors
11/12	<ul style="list-style-type: none"> Advanced Placement United States History Advanced Placement World History 	<ul style="list-style-type: none"> U.S. Government and Politics or U.S. Government and Politics—Honors Advanced Placement United States Government and Politics 	<p>One-half credit behavioral science requirement or . . .</p> <p><u>Elective</u></p> <ul style="list-style-type: none"> Psychology or Psychology—Honors Advanced Placement Psychology Sociology or Sociology—Honors Ethnic Studies Ethnic Studies—Honors 	<p>Elective or consumer education requirement</p> <ul style="list-style-type: none"> Economics or Economics—Honors Advanced Placement Macroeconomics Advanced Placement Microeconomics 	<p><u>Electives</u></p> <ul style="list-style-type: none"> Global Studies Global Studies—Honors

COURSES

<p><u>U.S. History</u> 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 the Progressive Era, 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><u>U.S. History—Honors</u> 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"> • 1865-77—Reconstruction; • 1865-1900—The Gilded Age, Industrialism, Urbanization, and the End of the Frontier; • 1890-1914—Imperialism and the Progressive Era; • 1914-29—World War I and the Roaring Twenties; • 1929-45—The Great Depression and World War II;

		<ul style="list-style-type: none"> • 1945-60—The Cold War Era; • 1960-90—The Vietnam War, the Civil Rights Movement, Watergate, and the administrations of Ford; Carter; Reagan; and Bush.
<u>Advanced Placement United States History</u> 1 credit	220131 220132	<p><i>Prerequisites:</i> Successful completion of U.S. History (220111 and 220112) or U.S. History—Honors (220121 and 220122), and/or teacher permission</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>World History</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, exploration, 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><u>World History—Honors</u> 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, exploration, 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><u>Advanced Placement World History</u> 1 credit</p>	<p>230131 230132</p>	<p><i>Prerequisites:</i> Successful completion of World History (230111 and 230112) or World History—Honors (230121 and 230122) and/or teacher permission</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><u>U.S. Government and Politics</u> 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 and foundations. Content will include factors that influence U.S. Government. This course prepares students to become responsible/aware members of American society.</p>
<p><u>Government and Politics—Honors</u> ½ credit</p>	<p>240120</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> This course is a study of the U.S. Government system and political processes focusing on constitutional structures and foundations. Content will include factors that influence U.S. Government. Honors will emphasize reading, writing, research, and presentations. Students will use critical thinking skills to explain trends, identify and question different points of view, and assess major ideas and how such ideas have worked in practice.</p>
<p><u>Advanced Placement United States Government and Politics</u> 1 credit</p>	<p>240131 240132</p>	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Sociology</u> ½ credit</p>	<p>250110</p>	<p><i>Prerequisites:</i> None</p> <p><i>Description:</i> During this course of study, students will develop an understanding and be</p>

		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.
<u>Sociology—Honors</u> 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 socio-logical concepts and perspectives concerning human groups that include attention to socialization, culture, organization, stratification, and societies.
<u>Ethnic Studies</u> 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.
<u>Ethnic Studies—Honors</u> 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,

		<p>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.</p>
<p><u>Psychology</u> ½ credit</p>	260110	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Psychology—Honors</u> ½ credit</p>	260120	<p><i>Prerequisites:</i> None</p> <p><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.</p>
<p><u>Advanced Placement Psychology</u> 1 credit</p>	 <p>260131 260132</p>	<p><i>Prerequisites:</i> None</p> <p><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,</p>

		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.
<u>Economics</u> ½ credit	270110	<i>Prerequisites:</i> None <i>Description:</i> This course will emphasize the principles and theories related to microeconomics. Students will obtain a thorough understanding of the principles of economics that apply to individual businesses, households, and the role of government in promoting greater efficiency and equity in the economy. The concepts of supply and demand, scarcity, and opportunity cost will be introduced as they relate to the product markets. This course may be taken for consumer education graduation credit.
<u>Economics—Honors</u> ½ credit	270120	<i>Prerequisites:</i> None <i>Description:</i> The Economics—Honors—course will emphasize the principles and theories related to macroeconomics. Students will obtain a thorough understanding of the principles of economics that apply to an economic system as a whole. Particular emphasis is on the study of national income and price level determination, economic performance measures, markets, employment concepts, fiscal monetary policy, inflation, etc. International economics will be addressed from the perspective of global interdependence and the effects of globalization and competition. This course may be taken for consumer education graduation credit.

<p><u>Advanced Placement Macroeconomics</u>  1 credit</p>	<p>270131 270132</p>	<p><i>Prerequisites:</i> None</p> <p><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 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"> • Measurement of economic performance; • National income and price determination; • Financial sectors; • Inflation, unemployment, and stabilization policies; • Economic growth and productivity; and • International trade and finance. <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><u>Advanced Placement Microeconomics</u>  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"> • Nature and function of markets, • Factor markets, • Market failure and the role of government.

		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.
<u>Advanced Placement Human Geography</u>	280231 280232	<i>Prerequisites:</i> None <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.
<u>Global Studies</u> ½ credit	280410	<i>Prerequisites:</i> None <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.).
<u>Global Studies—Honors</u> ½ credit	280420	<i>Prerequisites:</i> None <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.). Honors includes an emphasis on writing, researching, and presentations.
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WORLD LANGUAGES

COURSES		
<p><u>Introductory Chinese 1</u> 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>Indian Trail Academy only</p>
<p><u>Intermediate Chinese 2</u> 1 credit</p>	<p>702212 702214</p>	<p><i>Prerequisites:</i> Successful completion of Introductory Chinese 1 (701112 and 701114) and/or teacher permission</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>Indian Trail Academy only</p>
<p><u>Advanced Chinese 3</u> 1 credit</p>	<p>703312 703314</p>	<p><i>Prerequisites:</i> Successful completion of Intermediate Chinese 2 (702212 and 702214) and/or teacher permission</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>Indian Trail Academy only</p>
<p><u>Intermediate Chinese 2— Honors</u> 1 credit</p>	<p>704021 704022</p>	<p><i>Prerequisites:</i> Successful completion of Introductory Chinese (701112 and 701114) and/or teacher permission</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 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>Indian Trail Academy only</p>
<p><u>Advanced Placement Chinese Language and Culture</u> 1 credit</p>	<p>704422 704424</p>	<p><i>Prerequisites:</i> Successful completion of Advanced Chinese (703312/703314) and/or teacher permission</p> <p><i>Description:</i> The Advanced Placement Chinese Language and Culture course is designed to be comparable to fourth semester (or the equivalent) college/university courses in Mandarin Chinese. These college courses, which deepen students' immersion into the language and culture of the Chinese-speaking world, typically represent the point at which students complete approximately 250 hours of college-level classroom instruction. Course work provides students with opportunities to perform intermediate- to advanced-level tasks. Students are expected to achieve proficiencies</p>

		<p>throughout, and sometimes beyond, the intermediate range as described in the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines 1.</p> <p>The Advanced Placement course prepares student to demonstrate their level of Chinese proficiency across the three communicative models (interpersonal, interpretive, and presentational) and the five goal areas (communication, cultures, connections, comparisons, and communities) as outlined in the Standards for Foreign Language Learning in the 21st Century 2. Its aim is to provide students with ongoing and varied opportunities to further develop their proficiencies across the full range of language skills within a cultural frame of reference relative of the richness of Chinese Language and culture. Advanced Placement Chinese Language and Culture teachers plan and implement a course that focuses on language proficiency while interweaving level- and age-appropriate cultural content throughout the course and providing for frequent formative assessment of students' developing proficiencies within the context of their learning. Instructional materials and activities are carefully and strategically adapted from authentic sources to support the linguistic and cultural goals of the course.</p> <p>Indian Trail Academy only</p>
<p><u>Advanced Chinese 3— Honors</u> 1 credit</p>	<p>706021 706022</p>	<p><i>Prerequisites:</i> Successful completion of Intermediate Chinese (702212 and 702214) and/or teacher permission</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>

		Indian Trail Academy only
<u>Introductory French 1</u> 1 credit	711112 711114	<i>Prerequisites:</i> None <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.
<u>Intermediate French 2— Honors</u> 1 credit	712222 712224	<i>Prerequisites:</i> Successful completion of Introductory French 1 (711112 and 711114) and/or teacher permission <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.
<u>Advanced French 3— Honors</u> 1 credit	713322 713324	<i>Prerequisites:</i> Successful completion of Intermediate French 2—Honors (712222 and 712224) and/or teacher permission <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><u>Advanced Placement French Language and Culture</u> 1 credit</p>	<p>714422 714424</p>	<p><i>Prerequisites:</i> Successful completion of Advanced French 3—Honors (713322 or 713324) and/or teacher permission</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><u>German 1</u> 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 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><u>German 2</u> 1 credit</p>	<p>732212E 732214E</p>	<p><i>Prerequisites:</i> Successful completion of German 1 and/or teacher permission</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</p>

		<p>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><u>German 2—Honors</u> 1 credit</p>	<p>732222E 732224E</p>	<p><i>Prerequisites:</i> Successful completion of German 1 and/or teacher permission</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><u>German 3</u> 1 credit</p>	<p>733312E 733314E</p>	<p><i>Prerequisites:</i> Successful completion of German 2 and/or teacher permission</p> <p><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,</p>

		military service, personal relationships, the importance of appearance, emotions, fairy tales, and animals. Unit activities blend different forms of communication and culture.
<u>German 3—Honors</u> 1 credit	733322E 733324E	<i>Prerequisites:</i> Successful completion of German 2 and/or teacher permission <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.
<u>German 4</u> 1 credit	734412E 734414E	<i>Prerequisites:</i> Successful completion of German 3 and/or teacher permission <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.
<u>German 4—Honors</u> 1 credit	734422E 734424E	<i>Prerequisites:</i> Successful completion of German 3 and/or teacher permission

		<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><u>Introductory Italian 1</u> 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 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><u>Intermediate Italian 2— Honors</u> 1 credit</p>	<p>752222 752224</p>	<p><i>Prerequisites:</i> Successful completion of Introductory Italian 1 (751112 and 751114) and/or teacher permission</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><u>Advanced Italian 3—Honors</u> 1 credit</p>	<p>753322 753324</p>	<p><i>Prerequisites:</i> Successful completion of Intermediate Italian 2—Honors (752222 and 752224) and/or teacher permission</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><u>Advanced Placement Italian Language and Culture</u> 1 credit</p>	<p>754422 754424</p>	<p><i>Prerequisites:</i> Successful completion of Advanced Italian 3—Honors (753322 and 753324) and/or teacher permission</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><u>Introductory Spanish 1</u> 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><u>Spanish 1</u> 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><u>Intermediate Spanish 2</u> 1 credit</p>	<p>772212 772214</p>	<p><i>Prerequisites:</i> Successful completion of Introductory Spanish 1 (771112 and 771114) and/or teacher permission</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><u>Spanish 2</u> 1 credit</p>	<p>772212E 772214E</p>	<p><i>Prerequisites:</i> Successful completion of Spanish 1 and/or teacher permission</p> <p><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</p>

		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.
<u>Intermediate Spanish 2—Honors</u> 1 credit	772222 772224	<i>Prerequisites:</i> Successful completion of Introductory Spanish 1 (771112 and 771114) and/or teacher permission <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.
<u>Spanish 2—Honors</u> 1 credit	772222E 772224E	<i>Prerequisites:</i> Successful completion of Spanish 1 and/or teacher permission <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.
<u>Advanced Spanish 3</u> 1 credit	773312 773314	<i>Prerequisites:</i> Successful completion of Intermediate Spanish 2 (772212 and 772214) and/or teacher permission

		<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><u>Spanish 3</u> 1 credit</p>	<p>773312E 773314E</p>	<p><i>Prerequisites:</i> Successful completion of Spanish 2 and/or teacher permission</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><u>Advanced Spanish 3— Honors</u> 1 credit</p>	<p>773322 773324</p>	<p><i>Prerequisites:</i> Successful completion of Intermediate Spanish 2—Honors (772222 and 772224) and/or teacher permission</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><u>Spanish 3—Honors</u> 1 credit</p>	<p>773322E 773324E</p>	<p><i>Prerequisites:</i> Successful completion of Spanish 2 and/or teacher permission</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><u>Advanced Placement Spanish Language and Culture</u> 1 credit</p>	<p>774422 774424</p>	<p><i>Prerequisites:</i> Successful completion of Advanced Spanish 3—Honors (773322 and 773324) and/or teacher permission</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><u>Advanced Placement Spanish Language and Culture</u> 1 credit</p>	<p>774422E 774424E</p>	<p><i>Prerequisites:</i> Successful completion of Spanish 3 and/or teacher permission</p> <p><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</p>

		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.
<u>Culture and Civilization—Honors</u> 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.
<u>Spanish for Spanish Speakers 1</u> 1 credit	781112 781114	<i>Prerequisites:</i> Oral fluency in Spanish and/or teacher permission <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.