

TWO RIVERS HIGH SCHOOL

Course Selections



2016-2017

2016-2017



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Distance Learning/Online Courses

If you have an interest in a course that is not offered by our school, see your counselor about the availability of the course through distance learning/online. Courses offered through distance learning/online are taught at another location, with students having contact with an instructor and possibly other students in the course. Administration reserves the right to deny requests.

Grade 9		Grade 10		Grade 11		Grade 12	
Required		Required		Required		Required	
<p>English: English 9: Global Communications</p> <p>Math: Algebra or ✖Geometry (Needs Approval)</p> <p>Science: Science 9 or ✖Biology (Needs Approval)</p> <p>History: 20th Century U.S. History</p>		<p>English: English 10: American Studies</p> <p>Math: Geometry or Algebra 2 Please Note: A second Credit of math is required in the 10th grade year.</p> <p>Science: Biology or Chemistry</p> <p>History: Modern World History</p>		<p>English: 1 Credit (1-2 courses) from the following: ✖College Prep English (Needs Approval) ♦Mythology ♦Mystery & Horror ♦Fantasy & Science Fiction ♦Sports Literature ♦Modern Novel ♦War & Conspiracy ♦Outdoor Literature ♦✖College Composition (Needs Approval)</p> <p>Math: Algebra 2 or Pre-Calculus Algebra 2 is recommended.</p> <p>Science: 1 Credit (1-2 courses) from the following: General Chemistry Advanced Chemistry Advanced Biology Ecological Science Physics ♦Human Genetics ♦Human Anatomy & Physiology ♦Pathology</p> <p>History: ♦American Government - required 11th or 12th ♦Sociology - required 11th or 12th</p> <p>Physical Education /Health: ♦Health - required 11th or 12th ♦P.E. - required 11th or 12th</p>		<p>English: ♦Speech - required 1 Credit (1-2 courses) from the following: Any of the Grade 11 offerings ✖Honors English (Needs Approval) ♦Creative Writing ♦Media Literacy ♦College Composition College Prep</p> <p>History: ♦Consumer Economics</p>	
Physical Education: ♦Introduction to Health and Fitness Introduction to Health & Fitness is required 9 th or 10 th grade year						Electives	
Electives		Electives		Electives		Electives	
<p>Art: Basic Art Graphic Arts/Design 1</p> <p>Business/Information Technology: Focus on Business ♦Computer Apps 1 Accounting I ♦Marketing ♦Video Game Creation</p> <p>Family & Consumer Sciences: ♦Clothing Care & Construction 1 ♦Culinary Arts I</p> <p>Music: Band ♦‡Music Literacy Treble Choir (Girls Only) Concert Choir ♦Guitar class ♦✖Hand Drumming Ensemble (Needs Approval) ♦✖Advanced Musicianship (Needs Approval) ♦Introduction to Band Instruments ♦Class Piano I ♦Class Piano II ♦Class Piano III ♦Jazz Ensemble</p> <p>Social Science: World Geography</p> <p>Technology Education: Drafting ♦Home Maintenance Woods 1 Metals 1 ♦Power Technology Systems ♦Basic Electricity/Electronics ♦Plastics</p> <p>World Languages: Spanish 1 ✖Spanish 2 (Needs Approval)</p>		<p>Art: Intermediate Art ♦Photography 1 ♦Photography 2 Graphic Arts/Design 2 21st Century Design Lab</p> <p>Business/Information Technology: Business Math Accounting 2 Sports Entertainment Marketing Law and You</p> <p>Family & Consumer Sciences: ♦Culinary Arts II Culinary Arts III ♦Intro to Hotel & Hospitality ♦Child Development</p> <p>Music: ✖Show Choir (Needs Approval)</p> <p>Physical Education: ♦Advanced Weight Training ♦Competitive Team Sports ♦Team Sports ♦Recreational Sports ♦Personal Fitness</p> <p>Technology Education: Construction Woods 2 Metals 2 ♦Car Care/Consumer Auto. ✖Manufacturing Engineering (Needs Approval) ♦Home & Vehicle Maint./Repair (Girls Only)</p> <p>World Languages: Spanish 2</p>		<p>Art: Advanced Art</p> <p>Criminal Justice: ♦Intro to Criminal Justice</p> <p>Social Science: ♦Today’s Topics ♦Applied Psychology ♦Psychology -Theory & Research ♦Sports History</p> <p>Technology Education: Auto &Transportation Technology ✖Independent Study in Technology</p> <p>World Languages: French 4 Spanish 3</p>		<p>Art: Focus Study</p> <p>Health: ♦Healthy Living</p> <p>Math: ✖Calculus (Needs Approval)</p> <p>World Languages: French 5 Spanish 4 Spanish 5</p>	
						CODES: ♦Semester Course ✖Needs Teacher Approval ‡Music Literacy required for Band students	



GRADUATION REQUIREMENTS

**Twenty community service hours are required for
all students before graduation**

<i>Course Work</i>	
Language Arts	4 Credits
Mathematics	3 Credits
Science	3 Credits
Physical Education	1.5 Credits
Health	.5 Credit
Social Science 20 th Century U.S. History Modern World History American Government Sociology Consumer Economics Total Social Science	 1 Credit 1 Credit .5 Credit .5 Credit .5 Credit 3.5 Credits
Electives	8.5 Credits
Total Credits	24 Credits

Planning Your High School Courses

Graduation is the first goal of every student enrolled in high school. Besides meeting the requirements for graduation, the student's choice of subjects should have direction and purpose. The person who chooses school subjects with a goal in mind will enjoy the time spent on them and will be better prepared for the future. Your high school program will depend upon your interests, abilities and future plans. Following are some suggestions, which may help you:

1. Make sure your program fulfills graduation requirements
2. Keep your vocational goals in mind
3. Study the entrance requirements for schools of higher education
4. Take subjects with value, meaning and appeal for you

Adding & Dropping Courses

Staffing, courses to be run, along with the number of sections of each course, are determined by the number of students that sign up for each class. When students request course changes after the master schedule has been built, it often creates overloaded sections in the course that is added. It also leads to small-sized sections in the course that is dropped. This is one reason why course changes are only granted after careful consideration.

Course Load

Students must maintain their full-time status with a course load of 6 credits per year and a minimum of 6 classes per semester. Variation from this policy may only be granted through an IEP or 504 plan.

Course Changes

Students requesting a change *prior to the start of the school year* must meet with both their parent/guardian and a counselor. They may only enroll in classes with space available. Permission to drop a class may be denied if the number of students remaining in the class becomes too low to offer the course.

After the classes begin students will not be allowed to drop classes.

Students may not add a course after the **fifth day** of the new semester. If the minimum course load requirement is met, a student may withdraw from a course after meeting with both their parent/guardian and a counselor. The student will receive an “F” for the semester grade, which counts against academic records and affects athletic and co-curricular eligibility. A teacher-initiated course withdrawal may be granted without penalty, if the student has completed all course work and met with the teacher for extra help. Parents and students who wish to meet with a counselor should call ahead to schedule an appointment.

POST SECONDARY ADMISSIONS REQUIREMENTS

Although admissions requirements at colleges and universities vary, the University of Wisconsin system recommends the following preparations for college bound students. This program would prepare students for almost all colleges and universities nationwide:

English	4 credits (including composition and literature)
Mathematics	3 credits (including algebra, geometry, and higher math)
Science	3 credits (including laboratory science such as biology, chemistry or physics)
Social Science	3 credits
Foreign Language	2 credits in the same language is strongly advised, and is required in some universities

Additional useful skills and experiences include: keyboarding, computer literacy, visual and performing arts, school and community activities.

These are recommendations only. Not all colleges and universities require all of this course work. See your counselor early in your high school career to be sure that your program of study meets the specific requirements at the college or university of your choice.

WISCONSIN TECHNICAL COLLEGES

Admission to specific programs is dependent upon individual ability to meet minimum requirements and prerequisites.

Students are advised to carefully review their course selections to insure that they can meet all admission requirements for the school training program of their choice. Colleges are increasingly scrutinizing the level of difficulty of the course work taken by students during their senior year. Students who elect to take less demanding course work may find admission to certain colleges and technical programs very difficult.

Community Service

Twenty community service hours are required for all students before graduation. Forms are available on the Two Rivers High School Web site under the Student’s Services tab or in the Principal’s office.

ART

Title of Course	Course #	Year(s) Offered	Credit	Prerequisite
Basic Art	01100	9-10-11-12	1	Materials needed Fee
Intermediate Art	01200	10-11-12	1	Basic Art Materials needed Fee
Advanced Art	01300	11-12	1	Basic and Intermediate Art Materials needed Fee
Focus Study	01310	12	1	Basic, Intermediate, and Advanced Art Materials needed Fee
Photography 1	01220	10-11-12	.5	Materials needed Fee
Photography 2	01230	10-11-12	.5	A grade of "C" or better in Photography 1. Materials needed and Fee required
Graphic Arts/Design 1	01250	9-10-11-12	1	
Graphic Arts/Design 2	01320	10-11-12	1	A grade of "C" or better in Graphic Arts/Design 1 or permission form teacher. Repeatable.
21 st Century Design Lab	01330	10-11-12	1	

Basic Art 01100 1 Credit 9-10-11-12 Materials needed Fee

In this beginner class, students will have an opportunity to explore ceramics, painting, printing, sculpture and will learn basic drawing skills. Along with art production, students will explore and experience art history, art appreciation and art analysis. This is a great class for incoming freshman and seniors whom have earned an easier schedule. This class is for those whom are possibly considering a career in the arts fields of Clothing design, Interior design, Graphic Design, Art Advertising, Video Game production, cartooning, Studio Arts and Teaching. Materials are required for this course.

Intermediate Art 01200 1 Credit 10-11-12 Prerequisite: Basic Art Materials needed Fee

Students will use problem solving skills to develop skills in such mediums as ceramics, paint, printmaking, mosaics, sculpture, batik, beading, calligraphy, and metal while enhancing their drawing skills. Students will continue to explore art history, art appreciation and art analysis. This class is for those who are possibly considering a career in the arts fields of Clothing design, Interior design, Graphic Design, Art Advertising, Video Game production and higher-level drawing activities. Art history, art appreciation and art analysis will aid students in College level classes. Students will continue adding quality level pieces to their Portfolio. Materials are required for this course.

Advanced Art 01300 1 Credit 11-12 Prerequisite: Basic and Intermediate Art

This is an advanced class for those serious art students whom will be challenged with high level art production. Students will have an opportunity to work more independently while choosing the media they feel may better suit them and a future career in the arts. They will express and communicate ideas through 2 and 3 dimensional art production and higher-level drawing activities. Art history, art appreciation and art analysis will aid student in College level classes. Students will continue adding quality level pieces to their portfolio. Materials are required for this course.

Focus Study 01310 1 Credit 12 Prerequisite: Basic, Intermediate, and Advanced

Twelfth grade students will work independently to perfect their medium of choice. Students will be introduced to College level problem solving techniques and curriculum. With the help of the instructor, students will set goals and explore career options in the art field. Students will complete a portfolio of work and present a small Senior Art Show. Materials are required for this course.

Photography 1 01220 .5 Credit 10-11-12 Materials needed Fee

Photography 1 is a semester long basic photography course open to all students in grades 10-12. Students will receive hands-on experience in using 35 mm cameras, as well as digital cameras. Students will develop film and photographs using the darkroom as well as adjust and alter digital photographs using Adobe Photoshop. Materials are required for this course.

Photography 2 01230 .5 Credit 10-11-12 Prerequisite: A "C" or better in Photography 1
Materials needed Fee

Photography 2 is a course that utilizes and expands the basic skills learned in Photography 1. Students will learn and be provided with classroom experiences in the area of lighting techniques, special effects in printmaking, macro-photography, filter use and lens use. Student will also explore more creative options using digital image editing software. This course is open only to students who maintained a "C" in Photography 1 unless pre-approved by the instructor. Materials are required for this course. Students successfully completing this class earn 3 free tran-scripted college credits from LTC which can be transferred to other colleges or universities.

Graphic Arts/Design 1 01250 1 Credit 9-10-11-12

Graphic Arts/Design 1 is a basic course in the area of computer graphics which covers the primary graphic arts processes. Students will receive hands-on experiences in the area of Graphic Arts/Design. Along with other equipment, students will use illustration software for precision layouts and project design, including illustration, photograph manipulation, screen printing, web design, and basic Flash animation. This is a general course for printing, business and art oriented students interested in learning about the second largest industry in the United States today.

Students successfully completing this class earn 3 free Tran-scripted college credits from LTC. While these 3 free college credits are from LTC, they can be transferred to other colleges or universities.

Graphic Arts/Design 2 01320 1 Credit 10-11-12 Prerequisite: A "C" or better in Graphic Arts /Design 1 or permission from teacher

Graphic Arts/Design 2 is continuation of Graphic Arts 1. This class gives students an opportunity to expand their current knowledge of graphic design concepts. Students will get practical, hands-on experience advancing their knowledge of Action Script, and other design software, to create interactive multimedia designs.

21st Century Design Lab 01330 1 Credit 10-11-12

Students taking this class will explore current design Medias including digital 2D design, 3D design, mobile application development, motion graphics, and other 21st century design processes. This class will give each student hands on experience designing, creating, inventing, and applying many different skills to create works that relate to our current era

BUSINESS/INFORMATION TECHNOLOGY

Title of Course	Course #	Year(s) Offered	Credit	Prerequisite
Focus on Business	02100	9-10	1	
Computer Apps 1	02110	9-10-11-12	.5	
Business Math	02210	10-11-12	1	
Accounting 1	02320	9-10-11-12	1	
Accounting 2	02325	10-11-12	1	
Sports Entertainment Marketing	02350	10-11-12	1	
Marketing	02355	9-10-11-12	.5	
Law and You	02370	10-11-12	1	
Video Game Creation	02375	9-10-11-12	.5	

Focus on Business 02100 1 Credit 9-10

Focus on Business provides knowledge and skills that all young adults need to become experienced consumers, workers, and citizens. Topics covered in this class include: career planning, consumer buying strategies, using a checkbook, understanding credit cards, economic systems, business ownership, the relationship between government and business, saving and investing, insurance, and budgeting. Computers as a tool will be incorporated into this class.

Computer Technology Apps 1 02110 .5 credit 9-10-11-12

Upon completion of this course students will have utilized essential computer applications which will enable them to achieve computer literacy. Students will have a basic foundation in creating documents in word processing, spreadsheets, multimedia presentations and graphics. Students will also receive enrichment in using the Internet. LTC credit may be earned with a grade of “A” or “B” in this course.

Business Math 02210 1 Credit 10-11-12

This course is designed to introduce students to the elements of personal finance. Topics of discussion include: earnings, savings, taxes, insurance, borrowing, investing, and an introduction to business finance. Upon completion of this course, students will have a better understanding of the financial decisions they will face after high school.

Accounting 1 02320 1 Credit 9-10-11-12

This course is a blend of traditional methodology of accounting with current applications of computer technology. Students will be able to gain mastery of basic accounting concepts and procedures while they gain computer applications used to perform various accounting activities. This is an excellent course for students who plan on entering a career in business. Glencoe Accounting is a program that addresses the needs of students who want a strong foundation in basic accounting theory and procedures, integrated with computerized accounting systems. LTC credit may be earned with a grade of “A” or “B” in this course.

Accounting 2 02325 1 Credit 10-11-12

Students enrolled in Accounting 2 will find this class designed to be used by the college accounting student as well as the vocational oriented student. This class covers much of the same materials that students will study in a beginning college accounting course, but at a level suitable for high school students. It also helps prepare those students for various tasks they will encounter on the job. *Computers as a tool will be incorporated into this class.* Student in advanced accounting will study basic and advanced accounting principles, use common techniques to interpret financial statements, describe differences in accounting for different types of business organizations, accounting for not-for profit organizations, accounting for departments, branches and manufacturing and information required for the planning and control of business. LTC credit may be earned with a grade of “A” or “B” in this course.

Sports Entertainment Marketing 02350 1 Credit 10-11-12

Sports & Entertainment Marketing is an overview of the various techniques and strategies of business management related to sports and the entertainment industry. In the class, students will focus on sports and entertainment management, examine college and amateur sports, professional sports, sports related products and services, public images, community sports camps/workshops, the entertainment industry, legal issues surrounding laws, contracts, unions, etc. Students will have the opportunity to put together a sports campaign for ongoing school sports.

Marketing 02355 .5 Credit 9-10-11-12

Marketing activities are found in every type of business! In this course students will explore the foundations of marketing, specifically focusing on the marketing mix—place, price, product and promotion. Projects, hands-on activities and group work are prevalent.

Law and You 02370 1 Credit 10-11-12

Students who enjoy learning about trials, discussing the impact of current events on law and want to know more about their rights as an individual citizen, consumer and employee should take this course. Students will participate in a variety of interactive and practical activities, such as in-class mock trials, case studies, interpreting contracts, Internet activities, field trips and guest speakers as part of the process of learning how law, specifically business law, impacts society. Mock trials will be conducted in the course.

Video Game Creation 02375 .5 Credit 9-10-11-12

The student will learn several programming languages to create new video games that include animation, sound, music, motion, lives and levels. Technical skills related to software development, computer programming and graphic design will be taught. Creativity, innovation and critical thinking skills will be used to create video games in this STEM (science, technology, engineering and math) related course!

FAMILY AND CONSUMER SCIENCE

<i>Title of Course</i>	<i>Course #</i>	<i>Year(s) Offered</i>	<i>Credit</i>	<i>Prerequisite/Fees</i>
Clothing Care & Construction 1	04200	9-10-11-12	.5	
Culinary Arts I	04220	9-10-11-12	.5	Class Fees This is a prerequisite for Culinary Arts II, III.
Culinary Arts II	04240	10-11-12	.5	Must have successfully completed Foods for Today. Recommended class for students interested in Culinary Arts. Class Fees
Culinary Arts III	04460	10-11-12	1	Class fees required. Prerequisite: Foods for Today
Child Development	04250	10-11-12	.5	
Intro to Hotel & Hospitality Management	04450	10-11-12	.5	

Clothing Care and Construction 1 04200 .5 Credit 9-10-11-12

Clothing Care and Construction 1 is a course open to students in grades 9-12. Students will study textile characteristics and the principles of clothing design, care, and construction. Students will construct a simple sewing project during the first quarter and an individual project during the second quarter. Students are required to purchase materials for this course.

Culinary Arts I 04220 .5 Credit 9-10-11-12

Culinary Arts I is a course which includes the study of wellness and nutrition in one's everyday life. Units of study include food safety and sanitation, wellness and nutrition throughout the life cycle, and basic food preparation. Class Fees required. This is a prerequisite for Culinary Arts II and III.

Culinary Arts II 04240 .5 Credit 10-11-12 Prerequisite: Must have successfully completed Foods for Today.

Culinary Arts II is a course which includes the study of baked goods, pastries, and ethnic foods. Units of study will include cakes, pies, cookies, breads, pastries; food customs and ethnic foods from around the world. Class fees required. This is a prerequisite for Culinary Arts III and IV

Culinary Arts III 04460 1 Credit 10-11-12 Prerequisite: Foods for Today and Culinary Arts I and II.

Culinary Arts III focuses on the various components of the hospitality industry concentrating in professional cooking. Students will work on the first year of National Restaurant Association ProStart program. Projects include the TRHS School House Coffee Cart, Holiday Treat Sale, specialty meals, creative garnishes and cooking, and foods for special occasions. Students have the opportunity to participate in ProStart competition in March. Class fees required.

Child Development 04250 .5 Credit 10-11-12

Child Development is the study of physical, emotional, social, and intellectual development of the child from before birth to approximately age 6. Also covered are parenting roles, prenatal care and fetal development.

This course prepares the student to examine the history and foundations of the hospitality industry, formulate a higher level knowledge of what the hospitality industry has to offer, evaluate the restaurant industry, organization and operation. To evaluate the world of hotels, their organization and operations, assess the opportunities presented by the cruise line business, and gaming and casino hotels. To examine marketing perspectives, management companies and franchising in the hospitality business, explain how ethics affect management in the hospitality industry. This a dual credit course with LTC.

HEALTH

<i>Title of Course</i>	<i>Course #</i>	<i>Year(s) Offered</i>	<i>Credit</i>	<i>Prerequisite</i>
Health	06350	11	.5	Required
Healthy Living	06370	12	.5	Health

Health 06350 .5 Credit 11 – Required

Health is a course required by all grade 11 students. The overall goal of the health program is to provide students with the knowledge, skills, and understanding that will enable them to complete their developmental tasks in ways that are health enhancing, both with their immediate health needs and the long term consequences of behaviors they initiate during this period.

Healthy Living 06370 .5 Credit 12 – Elective

This course for seniors is a follow-up to the junior year Health course. Teacher discretion may apply to whether a student may enroll in the class. This class is designed to help students develop a personalized plan for a healthy lifestyle. The following topics will be covered: dating and healthy relationships, healthy choices, drug education, safety education, injury prevention/treatment, health career options. Students will also receive American Heart Association Certification in Heartsaver First Aid, Adult CPR, Adult AED and Environmental.

INTRO TO CRIMINAL JUSTICE

<i>Title of Course</i>	<i>Course #</i>	<i>Year(s) Offered</i>	<i>Credit</i>	<i>Prerequisite</i>
Intro to Criminal Justice	09005	11-12	.5	

Intro to Criminal Justice 09005 .5 Credit 11-12

In this semester course, students will learn the procedures used by law enforcement and the reason behind those procedures. The class will include lecture/discussion, hands-on demonstrations, guest speakers, videos and field trips. The course is instructed by an Officer and is aimed at the student who wants to understand more about law enforcement, the laws, and the different careers and specialties in law enforcement. You will learn what police officers do and why they do it. This course will take the mystery out of law enforcement procedures and policies, transforming student attitudes toward police and their role in society. Class size is limited and the instructor has the final say in student enrollment.

LANGUAGE ARTS

Overview of Required Courses:

GR	STANDARD REQUIREMENTS	Course #	ALTERNATIVE OPTIONS	Course #
9 TH	English 9 – Full Year Course (must pass both semesters)	05100	None	
10 TH	English 10 – Full Year Course (must pass both semesters)	05200	None	
11 TH	2 Genre Classes – Semester Long Courses (must have Fall and Spring semesters) <ul style="list-style-type: none"> • Mythology • Mystery & Horror • Fantasy & Science Fiction • Sports Literature • Modern Novel • War & Conspiracy • Outdoor Literature 	05330 05345 05350 05375 05360 05370 05380	College Composition (with English Teacher approval—semester long course replaces <i>one</i> genre course) College Prep (with English Teacher approval—year long course replaces <i>both</i> genre courses) Speech –In <i>addition</i> to 2 req. genre courses with Teacher Approval (sem. long course)	05440 05400 05300
12 TH	Speech —Semester Long Course (required per graduation requirements) *1 additional English elective course required Electives available include: <ul style="list-style-type: none"> • Genre elective courses • Creative Writing • Media Literacy • College Composition 	05300 05340 05390 05440	College Prep —year long course (with English teacher Approval) Honors English – year long course (with English teacher approval)	05400 05460

Except for the required courses – All course selections are subject to teacher recommendation.

English 9 05100 1 Credit Required

Students will practice and develop critical writing, reading, speaking and listening skills. The year-long course digs into classic and contemporary literature to explore the long process of “growing up,” including units such as Coming of Age, Personal Choices, and Discovering New Realities. Students develop essential essay writing skills and critical thinking skills while engaging in discussion and collaborative learning.

English 10 05200 1 Credit Required

Students continue to develop the reading, writing, speaking and listening skills introduced in English 9. The year-long course exposes students to classic and contemporary literature to explore the topic of “Social Justice” including units such as Social Perspective, Icons of Social Movements, Protest and Social Voice. Students focus on the writing process and critical reading skills through collaboration, research and literary analysis.

Genre Elective Courses

.5 Credits each

11 & 12

Genre elective courses are focused on further developing the foundational skills students develop in English 9 and English 10. Students will explore possible units such as Defining the Genre, Iconic Authors and Texts, and Thematic Explorations. Students will practice researching key genre elements and responding to exemplar classic and contemporary literary works. Each genre course places a unique emphasis on analyzing organization and author craft. All genre courses will follow the same skills and template; each course, however, has its own unique literature and course focus.

ELECTIVE COURSE OPTIONS:

Mythology 05330—gods and heroes come alive in a critical study of mythological text, culture and human experience.

Mystery & Horror 05345—a look at how fear and suspense are built—and what these tales reflect about our own world--while focusing on classic villains and monsters.

Fantasy & Science-Fiction 05350—a study of how this genre comments on and critiques our world through the creation of magical or futuristic worlds.

Sports Literature 05375—a historical approach to analyzing classic sports figures and inspirational stories, focusing on how sport can be a reflection of life.

Modern Novel 05360— an exploration of a variety of perspectives on the unique issues within society today including social media, harassment, violence in schools, and relationships.

War & Conspiracy 05370— a study of the impact of never-ending war and our human need to create scapegoats and conspiracy theories as alternatives to truth.

Outdoor Literature 05380— A literary study of the outdoor experience, why we are drawn to it, and how we can all appreciate it, whether we are outdoor adventurers, environmentalists, or quiet observers.

Speech 1 05300 .5 Credit 12 Required

Speech 1 will offer the student the basic fundamentals in public speaking, including: speech preparation, body movements and gestures, speech delivery, and the development of specific types, such as informative and persuasive. This is a *senior* year required course (open to Juniors with English department approval).

Creative Writing 05340 .5 Credit 12

This is a course for those who wish to express themselves creatively and imaginatively in such literary forms as the short story, children's story, poetry, and nonfiction. Techniques, insofar as they might aid the student in expressing him/herself artistically, will be studied. All will be encouraged to enter their work in contests and for publication.

Media Literacy 05390 .5 Credit 12

The course is designed to investigate, evaluate, and appreciate the workings of the mass media. Areas covered include the communication process, advertising, newspapers, comics and animation, radio, television, film, the news media, and social media.

College Composition 05440 .5 Credit 12

This is open to juniors and seniors planning on attending a college or university. The course will present a variety of writing situations: descriptive, narrative reflections, literary analysis, and impromptu essays: college application letter/resume similar to those students will encounter in their college courses. The course is highly recommended for juniors hoping to take College Prep as seniors *or* to any senior attending some form of schooling after graduation.

College Prep English 05400 1 Credit 12 Prerequisite: Teacher Approval

Designed to hone students' critical reading, writing, and thinking skills to meet the rigors of college, this course is centered around the study of literature, ranging from mythology to Shakespeare to diverse contemporary literature. Students will analyze the reading extensively and continue the analysis through discussion and writing. ***Teacher recommendation required for enrollment.***

Honors English 05460 1 Credit 12 Prerequisite: Teacher Approval
Fee for Credit

Honors English is a year-long college-level course open to seniors who hold at least an over-all 3.4 grade point average and receive the recommendation of at least one English teacher. As with typical college courses, all students will be expected to purchase or rent the books for Honors English. The first semester focuses on formal and informal essay writing. The second semester emphasizes in-depth probing and discussion, both written and oral, of literature. Students earn one high school credit and may earn six college credits. The college credits, granted through Silver Lake College, are based upon earning a "C" or higher grade each semester and paying the appropriate application and tuition fees (\$435 per semester for the 2015-16 school year).

MATHEMATICS

<i>Title of Course</i>	<i>Course #</i>	<i>Year(s) Offered</i>	<i>Credit</i>	<i>Prerequisite</i>
Algebra	05600	9-10-11-12	1	
Geometry	05700	9-10-11-12	1	Successful completion of Algebra or consent of instructor
Algebra II (Algebra 2)	05800	10-11-12	1	Successful completion of Geometry or consent of instructor
Pre-Calculus	05900	11-12	1	Algebra II
Calculus	05950	12	1	Pre-Calculus or consent of instructor

Algebra 05600 1 Credit 9-10-11-12

Algebra combines letters representing numbers according to the rules of arithmetic. Algebra is a prerequisite for geometry, chemistry and physics. The course includes: adding, subtracting, multiplying and dividing of algebraic numbers, equations in one unknown (x) and two unknowns (x and y), graphing, factoring, fractions, sets and inequalities in one and two unknowns.

Geometry 05700 1 Credit 9-10-11-12 Prerequisite: Successful completion of Algebra or consent of instructor

Geometry presents mathematics as a deductive system—a system in which facts are developed logically. Much emphasis is placed on proving theorems. The facts proved about geometric figures provide a foundation for further study in mathematics and enables students to solve some common practical problems, such as the indirect measurement of distance and calculating areas and volumes.

Algebra II (Algebra 2) 05800 1 Credit 10-11-12 Prerequisite: Successful completion of Geometry or consent of instructor

This course is divided into Algebra II and Trigonometry. It is a continuation of Algebra with special emphasis on quadratic equations, conic sections, sequences and series, matrices, and trigonometric functions (sine, cosine, tangent, secant, cosecant, and cotangent.)

Pre-Calculus 05900 1 Credit 11-12 Prerequisite: Algebra II

This course covers elementary mathematical analysis, a comprehensive study of field axioms and functions, touching the subject of analytic geometry, limits, continuity and series. Other areas investigated are complex numbers, polar coordinates and exponential and logarithmic functions. Differential and integral calculus is introduced.

Calculus 05950 1 Credit 12 Prerequisite: Pre-Calculus or consent of instructor

This course covers the four major concepts to be mastered in a first-semester, college-level calculus course—limit, derivative, definite integral, and indefinite integral. For each concept, the student will learn the precise definition, have an intuitive understanding of what the concept means, be able to “do” the concept, and be able to apply it in the real world or mathematical world. There are four ways this knowledge will be obtained—numerically, graphically, algebraically, and verbally. By using such multiple representations, students will learn methods for differentiating and integrating the elementary transcendental functions—trigonometric, exponential, logarithmic, and hyperbolic.

MUSIC

<i>Title of Course</i>	<i>Course #</i>	<i>Year(s) Offered</i>	<i>Credit</i>	<i>Prerequisite</i>
Band	06010	9-10-11-12	1	Previous Band Experience
Treble Choir	06020	9-10-11-12	1	
Concert Choir	06030	9-10-11-12	1	Two Years of Treble Choir or consent of Instructor
Show Choir	06035	10-11-12	1	Enrolled in a chorus class and teacher audition
Guitar Class	06040	9-10-11-12	.5	
Hand Drumming Ensemble	06045	9-10-11-12	.5	Consent of Instructor
Advanced Musicianship	06050	9-10-11-12	.5	Consent of Instructor
Introduction to Band Instruments	06060	9-10-11-12	.5	Consent of Instructor
Class Piano I	06064	9-10-11-12	.5	
Class Piano II	06066	9-10-11-12	.5	
Class Piano III	06068	9-10-11-12	.5	
Jazz Ensemble	06070	9-10-11-12	.5	Consent of Instructor
Music Literacy	06080	9-10-11-12	.5	Musical Background Preferred

Individualized instruction will be available in most areas of music for those whose needs may not be met by the courses listed above. Please consult the instructor.

Band 06010 1 Credit 9-10-11-12 Prerequisite: Previous Band experience

Band is a two-semester course for students in grades 9-12. A student may enroll in this class as many as four times. Band instruction provides the opportunity for students to develop their individual level of musicianship, experience performance situations, and gain a sound education in the art of musical expression through the areas of melody, rhythm, harmony, timbre, texture and form. Rehearsals demand student maturity and cooperation. Lessons and/or sectionals, scheduled during the school day, are a requirement of this course. Participation in concert activities is also required: in school pep assemblies, parades during the school year, pep band performances at home conference football and basketball games, marching field shows, Holiday Concert, Winter Band Concert, Spring Concert, solo ensemble festival, and field trips during the school year. (Freshmen are required to also sign up for Music Literacy for one semester.)

Treble Choir 06020 1 Credit 9-10-11-12

This class is designed primarily for freshman and sophomore women or the beginning chorister and is intended to prepare them for the concert choir. Music studied and performed include easy to intermediate music in 3 to 4 parts in all styles, periods and genres. Vocal techniques and musicianship skills will be studied. Rehearsals demand student maturity and cooperation. Lessons, scheduled during the day are a requirement. Participation in concert activities is required.

Concert Choir 06030 1 Credit 9-10-11-12 Prerequisite: Two years of Treble Choir or
Consent of Instructor

Music studied and performed includes complex 3 and 4 part songs in all styles, periods and genres. Concepts of advanced vocal techniques, music fundamentals, music appreciation and musicianship will be studied. Rehearsals will demand considerable student maturity and cooperation. Lessons, scheduled during the day are a major requirement of the course. Participation in concert activities is required. It is recommended that students have prior choral experience of at least two years. Acceptance into this choir will be determined by auditions or consent of the instructor.

Guitar Class 06040 .5 9-10-11-12

Guitar class is offered to all high school students. Enrollment may be limited due to the number of school-owned guitars available; however, students can use their own guitar if they have one. The class is designed to teach students how to play guitar, including reading melodies, rhythms and chords as well as transcribing music off of recordings.

Hand Drumming Ensemble 06045 .5 Credit 9-10-11-12 Prerequisite: Consent of Instructor

Open to all students, Grades 9-12 currently enrolled in band. Students not currently in the band program can audition to be a member of the ensemble. Membership to the group may be limited based upon number of instruments available. Students will learn to play multi-cultural music made up of mostly percussion instruments. The ensemble will perform at concerts and festivals.

Advanced Musicianship 06050 .5 Credit 9-10-11-12 Prerequisite: Consent of Instructor

This course is for students who want to improve on their musicianship and musical abilities. Students will design a project or area of study upon which they will work. Areas include jazz improvisation, composition, arranging, festival music, etc. (See the instructor for permission to enroll in this course.)

Introduction to Band Instruments 06060 .5 Credit 9-10-11 Prerequisite: Consent of Instructor

This course is designed for students who need remedial help on a band instrument or wish to learn how to play a band instrument. The student may select trombone, tuba, trumpet, French horn, bassoon, clarinet, flute, saxophone or percussion. This course covers sound production, reading music and basic musicianship. Successful completion of this course will satisfy the prerequisite for enrolling in band. (See the instructor for permission to enroll in this course.)

Class Piano I 06064 .5 Credit 9-10-11-12

This course is designed for the beginning piano student. Content includes learning to read simple rhythms, read treble and bass clef notes, interpret the most commonly used dynamic symbols, play with both hands simultaneously, and use the most common chords to harmonize melodies. Styles of music will vary. *Students do not have to know how to play the piano to take this course.*

Class Piano II 06066 .5 Credit 9-10-11-12

This course is designed for the intermediate piano student who already has mastered the skills required in Class Piano I. Alternating private lessons will be scheduled during the class. Students will learn to play more complicated two-hand music and will expand their knowledge of music theory. Styles of music will vary.

Class Piano III 06068 .5 Credit 9-10-11-12

This class is designed for the student who has mastered the skills of Class Piano I and II. The focus of this class will be on developing the coordination of two-hand playing along with use of the pedals. More advanced theory will be studied. **Note: You may take this class even if you have not taken Class Piano I and II, providing you already possess the required skills. Check with the instructor.**

Jazz Ensemble 06070 .5 Credit 9-10-11-12 Prerequisite: Consent of the Instructor

This course is offered for .5 credit for one semester. The course is offered to saxophone, trumpet, trombone, piano, guitar, and drum set players who are also enrolled in Band. This course includes the performance of jazz, jazz-rock, blues, swing, big-band standards, and ballad styles of music. In addition to learning the literature, students will learn the art of improvisation with a step-by-step approach.

Music Literacy 06080 .5 Credit 9-10-11-12 Prerequisite: Musical background Preferred

Music Literacy is offered for .5 credit for one semester to all students, **and is required of all freshmen enrolling in the instrumental music program (Band).** The course covers basic concepts in counting rhythm patterns, music theory, and overview of all the instruments, music history and basic attitudes of good musicianship.

PHYSICAL EDUCATION

<i>Title of Course</i>	<i>Course #</i>	<i>Year(s) Offered</i>	<i>Credit</i>	<i>Prerequisite/Fees</i>
Intro to Health & Fitness	06100	9-10	.5	Required in 9 th or 10 th grade
Competitive Team Sports	06200	10-11-12	.5	Intro to Health & Fitness
Team Sports	06210	10-11-12	.5	Intro to Health & Fitness
Recreational Sports	06220	10-11-12	.5	Intro to Health & Fitness Fee required
Personal Fitness	06230	10-11-12	.5	Intro to Health & Fitness
Advanced Weight Training	06310	10-11-12	.5	Intro to Health & Fitness

Note: All students are required to take “Intro to Health & Fitness” in their freshmen or sophomore year.

Intro to Health & Fitness 06100 .5 Credit 9 or 10 Required 1st before other Phy. Ed. classes

Intro to Health & Fitness is a ninth or tenth grade semester course designed to introduce students to a wide variety of Physical Education activities. Students will work on skill development and learn associated rules and strategies while participating in cooperative games, football/soccer, volleyball/basketball, and swimming units. Students will also learn important health and fitness concepts through the completion of a fitness unit in which they will establish personalized health and fitness goals, and work to accomplish those goals while performing a series of running, walking, and weight training workouts.

Competitive Team Sports 06200 .5 Credit 10-11-12 Prerequisite: Intro to Health & Fitness

“Competitive Team Sports” is a semester course designed for athletic, competitive students. A greater emphasis will be placed on the competitive aspects of team sports. Students will participate in badminton, basketball, football/soccer, volleyball units. Students choosing to enroll in “Competitive Team Sports” should enjoy competition, have a basic knowledge of these sports, and are confident they can execute the skills and strategies associated with the majority of these activities.

Team Sports 06210 .5 Credit 10-11-12 Prerequisite: Intro to Health & Fitness

“Team Sports” is a semester course designed primarily for non-athletic students. A greater emphasis will be placed on learning the basic knowledge and fundamentals of the sport. Students will participate in badminton, basketball, football/soccer, softball, tennis, and volleyball unit. Students choosing to enroll in “Team Sports” will be exposed to competitive situations, but less emphasis will be placed on the competition aspect.

Recreational Sports 06220 .5 Credit 10-11-12 Prerequisite: Intro to Health & Fitness \$15. Fee require

“Recreational Sports” is a semester course designed for students interested in individual sport and fitness activities. Students will learn basic rules and develop skills while participating in a variety of activities such as archery, badminton, bowling, golf, horseshoes, disk golf, orienteering, swimming and tennis. **This course requires a \$15.00 fee due a week prior of the start of the bowling unit. Students who fail to pay the fee will receive “0 Points” for the bowling unit.** For more information on this course, please contact Mr. Jansky.

Personal Fitness 06230 .5 Credit 10-11-12 Prerequisite: Intro to Health & Fitness

“Personal Fitness” is a semester course designed for students who are serious about improving their overall health and fitness levels. The “Personal Fitness” course will focus on improving the student’s muscular strength, cardiovascular endurance, resting heart rates, and nutritional habits. Students will spend 8-10 days in the classroom learning basic health and fitness concepts, and complete a series of basic fitness tests to determine their current fitness levels. Based on their fitness testing results, students will establish health and fitness goals and perform a variety of daily workouts as they strive to improve their current health and fitness levels. For more information on this course, please contact Mr. Jansky.

Advanced Weight Training 06310 .5 Credit 10-11-12 Prerequisite: Intro to Health & Fitness

“Advanced Weight Training” is a semester course which can be taken for one or both semesters, it is designed for students who are serious about weight training and fitness. All students will participate in the Bigger Faster Stronger weightlifting program, which allows every athlete, regardless of sport or gender, to make great mental and physical gains. For more information on this course, please contact Mr. LaTour.

SCIENCE

<i>Title of Course</i>	<i>Course #</i>	<i>Year(s) Offered</i>	<i>Credit</i>	<i>Prerequisite</i>
Science 9	07100	9	1	Required
Biology	07200	10	1	Required
General Chemistry	07300	11-12	1	Successful completion of entire Algebra and Biology courses
Advanced Biology	07305	11-12	1	A “B” or better in Biology and Chemistry, (Anatomy suggested)
Human Genetics	07310	11-12	.5	Biology
Human Anatomy & Physiology	07320	11-12	.5	Biology
Pathology	07330	11-12	.5	Biology
Ecological Science	07350	11-12	1	Biology
Physics	07400	11-12	1	Successful completion of entire Algebra and Biology courses
Advanced Chemistry	07450	11-12	1	Successful completion of entire General Chemistry

Science 9 07100 1 Credit 9 Required

Science 9 focuses on the study of physical science concepts. Students will participate in a variety of lab and “hands on” activities for each topic covered.

Biology 07200 1 Credit 10 Required

Biology, or the “Science of Life”, is centered around the major biological concepts with emphasis on hands on laboratory experience that emphasize problem solving and the role of man in his external and internal environment. A considerable amount of laboratory work helps give meaning to the many principles, concepts, facts and theories that are studied, as well as preparing the person for future studies in science or lifetime learning skills.

General Chemistry 07300 1 Credit 11-12 Prerequisite: Successful completion of entire Algebra and Biology courses

A hidden world made up of atoms, ions, and molecules will be explored in this college-preparatory course. Students will quantitatively investigate matter, its interaction with other matter, and the resulting changes they undergo. Learning is enhanced with frequent, exciting laboratories where the evidence of these changes is made apparent via heat, light, and/or sound to name a few. Application to real-life phenomena and industrial processes is weaved into the curriculum throughout the year.

Advanced Biology 07305 1 credit 11-12 Prerequisite: A “B” or better in Biology and Chemistry, (Anatomy suggested)

This course is designed to be the approximate equivalent of a freshman level college Biology class. A sound foundation in science, particularly Biology, will be crucial for student success. Lab work will be a primary component of this course as well as a student developed research project. Successful completion of this course will prepare a student to take the Advanced Placement Biology exam (optional) which is accept by most universities and colleges as either credit or fulfilling a freshman level biology requirement.

Advanced Chemistry 07450 1 Credit 11-12 Prerequisite: Successful completion of Chemistry.

This course offers a study of Chemistry at the collegiate level. Among others, concepts of thermodynamics, kinetics, equilibrium, Lewis structures, electrochemistry, and organic chemistry will be explored via discussion, frequent laboratory work, and technological instrumentation. Through this course is not officially an “advanced placement” class, allowing content and time flexibility, the curriculum and its rigor will sufficiently prepare a student to take the AP exam in May. Students may earn 8 college credits through Silver Lake College upon earning a “C” or higher grade each semester and paying the appropriate application and tuition fees.

Human Genetics 07310 .5 Credit 11-12 Prerequisite: Biology

This is the study of human heredity and Mendelian genetics. The student will gain a better understanding of why “you are you” both physically and chemically. Human genetics is lab oriented and involves extraction, separation of DNA fragments by electrophoresis, and statistical analysis of genetic traits in populations. The recent advances in genetic engineering are covered as well as the ethical and legal problems they create.

Human Anatomy & Physiology 07320 .5 Credit 11-12 Prerequisite: Biology

This class is a study of the human body on a system by system basis. The major organs and their functions are emphasized. Various laboratory activities include observation of one’s own body functions.

Pathology 07330 .5 Credit 11-12 Prerequisite: Biology

Pathology is the study of diseases. This course will survey many of the important diseases and their bacterial, viral, parasitic, genetic, and environmental causes. Laboratory Activities reinforce central concepts and microbiological techniques.

Ecological Science 07350 1 Credit 11-12 Prerequisite: Biology

Ecological Science teaches students to be wise stewards of our environment and to have a true appreciation for the remaining wild by stressing the interrelationship between living things and their non-living surroundings. Current ecological topics are considered as they arise.

Physics 07400 1 Credit 11-12 Prerequisite: Successful completion of entire Algebra and Biology courses

Physics is a laboratory-based science course for students planning on entering college or a technical career. Students will learn to describe the natural world using the language of mathematics in order to understand the physical laws governing the universe. Computer measurement hardware and analysis software is used to explore topics in motion, force, energy, and waves.

SOCIAL SCIENCE

Title of Course	Course #	Year(s) Offered	Credit	Prerequisite
20 th Century U.S. History	08100	9	1	Required
World Geography	08150	9-10-11-12	1	
Modern World History	08200	10	1	Required
American Government	08300	11	.5	Required
Today's Topics	08310	11-12	.5	
Sociology	08320	11-12	.5	Required *
Applied Psychology	08330	11-12	.5	**
Psychology – Theory and Research	08340	11-12	.5	**
Sports History	08350	11-12	.5	
Consumer Economics	08400	12	.5	Required

*Transcripted or advanced standing credit through Lakeshore Technical College.

**Must take both Applied Psychology and Psychological Theory and Research in the same school year to receive transcripted or advanced standing credit through Lakeshore Technical College.

20th Century U.S. History 08100 1 Credit 9 Required

The student will study the development of the United States from the Spanish American War up to the present time. Throughout much of the year attempts are made to relate history with contemporary events.

World Geography 08150 1 Credit 9-10-11-12 Earn .5 Science Credit

This course is designed to provide students with knowledge about the physical and human geography of our world. It is designed to enhance their understanding of the world's regions and cultures as to how they interrelate, and to provide beneficial instruction and practice to students in developing their basic map skills, critical thinking skills, writing skills and other general social science skills.

Modern World History (1300 – Present) 08200 1 Credit 10-11-12

From the Renaissance Period to the present, Modern World History will allow students to connect people, eras and events of the past to the present. Students will learn about the world's major religions, times of great change and new ideas, different forms of government, the horrors of war and stories of struggle and triumph. Major eras in Modern World History include: The Renaissance, the Age of Exploration and Expansion, Absolutism and Monarchy, the Age of Enlightenment and Revolution, the Age of Imperialism, the Era of War and Depression, Post-WWII to the present.

American Government 08300 .5 Credit 11 Required

This course is designed to provide students with the knowledge and skills necessary for good citizenship. Students will learn about the functions of local, state and national governments. An in-depth look at political parties and voting will also be included.

Today's Topics 08310 .5 Credit 11-12

Today's Topics is a course that deals with local, national, and the world's daily events. Students will read a current events magazine and incorporate what they learned into the classroom discussion. The topics discussed will be supplemented by the use of the internet and news programs. Students that have an interest in the news and happenings around the world would enjoy the class. Student discussion and debate of current topics is encouraged and required.

Sociology 08320 .5 Credit 11-12 Required

Sociology introduces students to the basic concepts of sociology: culture, socialization, social stratification, multi-culturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues.

*Transcripted or advanced standing credit through Lakeshore Technical College.

Applied Psychology 08330 .5 Credit 11-12

Applied Psychology introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as motivation, emotions, memory, sensation and perception, physiological factors, and social influences. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings

**Must take both Applied Psychology and Psychological Theory and Research in the same school year to receive transcripted or advanced standing credit through Lakeshore Technical College.

Psychology-Theory and Research 08340 .5 Credit 11-12

Psychological Theory and Research introduces students to a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, personality, deviance and pathology, mental health, therapy, altered states of consciousness (including sleep and dreams), psychological testing, and development. It directs the student to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings.

**Must take both Applied Psychology and Psychological Theory and Research in the same school year to receive transcripted or advanced standing credit through Lakeshore Technical College.

Sports History 08350 .5 Credit 11-12

Sports are a reflection of our society. By learning about the history of sports in the United States we can learn a lot about ourselves. What was happening in the U.S. and the world during Babe Ruth's great career? How did the Green Bay Packers get started? Who was the "Cinderella Man", and what did he have to do with the Great Depression? What was the big deal about this Jackie Robinson guy? Who was Jim Thorpe and why was he important? How do player strikes in hockey, football, and baseball relate to blue collar worker unions? Ted Williams was in WWII? How did Michael Jordan transcend race to become the most popular figure on the planet? If you want to learn about the history through the eyes of sports, the Sports History is for you!

Consumer Economics	08400	.5 Credit	12	Required
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Consumer Economics is a course required of all seniors. The first half is on economic systems, businesses, labor-management relations. The second half is a study on being a wise consumer; shop sales, different types of stores, grocery shopping, characteristics of contract, apartment lease, writing letter of complaint, legal assistance, advertisement, credit and banking.

TECHNOLOGY EDUCATION

<i>Title of Course</i>	<i>Course #</i>	<i>Year(s) Offered</i>	<i>Credits</i>	<i>Prerequisite</i>
Communications				
Drafting	08500	9-10-11-12	1	
Construction:				
Home Maintenance	08520	9-10-11-12	.5	
Construction (Residential)	08620	10-11-12	1	
Manufacturing:				
Woods 1	08530	9-10-11-12	1	
Woods 2	08630	10-11-12	1	Woods 1 (C or higher) <u>and</u> instructor's approval
Metals 1	08540	9-10-11-12	1	
Metals 2	08615	10-11-12	1	Metals 1 (C or higher) <u>and</u> instructor's approval
Plastics	08795	9-10-11-12	.5 Credit	
Power and Energy:				
Power Technology Systems	08550	9-10-11-12	.5	
Basic Electricity/Electronics	08560	9-10-11-12	.5	
Automotive & Transportation Technology	08650	11-12	1	Power Technology or Car Care/Cons. Auto (C or higher) <u>and</u> instructor's approval
Car Care/Consumer Automotive	08710	10-11-12	.5	
Manufacturing Engineering (formerly Mini-Chopper)	08715	10 - 12	1	1 credit in Technology Education <u>and</u> instructor's approval
Other:				
Home & Vehicle Maintenance/Repair (girls only)	08725	10-11-12	.5	
Independent Study in Technology	08730	11-12	.5 or 1	Grade of "B" or higher in an advanced Technology Education department course <u>and</u> instructor's approval.

Technology Education notes:

- All courses require that students pay a shop fee to help defray the cost of general materials. The shop fee will vary with each course taken.
- Most courses require that students bring in or purchase individual project materials. Material costs will vary according to the project(s) determined.
- Most courses require that students bring in or purchase safety equipment.

COMMUNICATIONS

Drafting 1 08500 1 Credit 9-10-11-12

This very basic, course will introduce students to basic drafting and design principles through the use of sketching, mechanical drawing, and computer-aided drafting (CAD) techniques. Students will explore basic graphic communication and design principles used by engineers and architects to communicate ideas to manufacturers and customers.

CONSTRUCTION

Home Maintenance 08520 .5 Credit 9-10-11-12

This very basic, course is for any student who would like to save money by being able to perform home repairs on their own in the future. This course will help students with common household repairs in the areas of wall framing, wall sheathing installation, vinyl siding installation, copper and pvc (*plastic*) pipe plumbing, wiring common electrical circuits, interior drywall construction/texturing/repair, ceramic tile installation & finishing, wall painting, wall papering, roof component installation, and much, much more. FYI, during parent/teacher conferences, many parents have informed me that they wished that they had a class like this available to them when they were in high school.

Construction (Residential) 08620 1 Credit 10-11-12

This somewhat basic, course will provide students with knowledge and hands-on experiences related to house framing/construction, brick and concrete block masonry, land surveying, residential plumbing, residential electrical, and residential building codes/regulations. In addition, students will learn about machine and power tool operations that are common to the industry. A major emphasis will be placed on safety, as it relates to each area.

By taking this course, students will develop skills to improve their chances of obtaining a job/career in the residential construction industry and/or will better prepare themselves for post-secondary educational opportunities related to the field.

Note: Students who take this course might be required to take a day or two off of school to work on projects that take place off of the school's campus. However, students will never be required to take off of school if the grades in any of their other classes are in jeopardy.

MANUFACTURING

Woods 1 08530 1 Credit 9-10-11-12

This very basic, course will provide students with technical woodworking information related to project planning, layout, cutting, assembly, finishing, and shop safety. Students will work, independently, on constructing their own woodworking project, upon the instructor's approval. No prior woodworking experience is necessary.

Students will be required to work with hand and power tools, so as to obtain an overall exposure to the woodworking industry. Occupational opportunities in the woodworking industry and residential construction trades, along with work and training requirements, will be discussed. In addition, an introduction to the field of residential construction will be covered through the construction of a scale model house.

Common projects include: nightstands, CD/DVD cabinets, end tables, small entertainment centers, a scale model house, etc.

Woods 2 08630 1 credit 10-11-12 Prerequisite: Grade of “C” or better in Woods 1 and instructor's approval

This advanced, course will provide students with a review of technical information covered in Woods 1. Students will study design principles and apply them to an individual, major project that is primarily of their choice. In addition to constructing a major project, course work will include wood bending, plastic laminating, pattern making, machine maintenance, and tool sharpening.

Common projects include: gun cases, coffee tables, bars, end tables, curios, corner hutches, dining room tables, china cabinets, chests, entertainment centers, etc.

Metals 1 08540 1 Credit 9-10-11-12

This very basic, course will provide students with an introduction to stick, wire feed, TIG and oxy-fuel welding principles and processes. Students will also explore metal cutting and bending processes including the plasma arc, oxy-fuel cutting processes. In addition, students can expect a wealth of hands on projects involving sheet metal, aluminum casting, and machining tools equipment and practices. Basic math skills including algebra and geometry will be used daily to complete projects. Upon completion of the class, students will be competent in basic metalworking. Students may earn articulated credits for LTC by completing this course in good standing.

Metals 2 08615 1 Credit 10-11-12 Prerequisite: Grade of “C” or better in Metals 1 and Instructor's endorsement

This advanced, course will provide students with a review of the concepts and principles taught in Metals I. Students will learn to develop skills and techniques necessary to safely weld steel, aluminum, stainless metals using the SMAW, GMAW, and GTAW processes. In addition, students can expect to complete advanced projects using sheet metal, casting, and machine tool equipment and practices. Basic math skills including algebra and geometry will be used daily to complete projects. Students will also study the manufacturing and design principles necessary to effectively plan and safely manufacture their own individual projects (*upon instructor approval*). Students may earn articulated credits for LTC by completing this course in good standing.

Plastics 08795 .5 Credit 9-10-11-12

Plastics production in industry is limitless as its finished products are found everywhere. Students will have an opportunity to study techniques in basic processes related to various methods of plastics production, such as compression molding, injection molding, rotational molding, , bending, engraving, tool coating and others. Typical projects include: a duck decoy, a goose decoy, a key tag, an engraved name plate, tool handle coating, Styrofoam balls, artificial fishing bait, a football tee, a desktop organizer and much more.

POWER AND ENERGY

Power Technology Systems 08550 .5 Credit 9-10-11-12

This very basic, course will provide students with a basic understanding of mechanical repair and maintenance applications. Topics to be covered include four-stroke and two-stroke engine theory, operation, repair, and maintenance. Students will explore fuel, governor, ignition, transaxle, starting, and cooling systems. Students will have the opportunity to disassemble and recondition two and/or four stroke engines. Upon completion of this course, students will understand small engine maintenance and repair. This course is a prerequisite and will prepare students for Automotive & Transportation Technology.

Basic Electricity/Electronics 08560 .5 Credit 9-10-11-12

This very basic, course will help students explore basic electrical principles. Students will develop an understanding of basic electrical theory, electrical power generation, electrical power distribution, and electric motors. Students will also learn the skills necessary in home wiring and may explore circuitry, components, mapping circuit boards, wiring common circuits, soldering, etc.. Students will complete lab projects that will allow them to see how electrical systems function.

Automotive & Transportation Technology 08650 1 Credit Grades 11-12 Prerequisites Power Technology or Car Care (C or higher and instructor approval)

Automotive & Transportation Technology is a, advanced, course designed to give students the opportunity to learn and develop an advanced understanding within the field of power mechanics. Students in this course will primarily study the diagnosis, maintenance, and repair of automobiles and automotive systems. In addition, students will have the opportunity to restore, diagnose and repair automobiles and recreational equipment such as snowmobiles, ATV's, motorcycles, jet-skis, lawnmowers, etc. Students are expected to provide vehicles or equipment for lab projects throughout the course. Upon completion of this class, students will have a basic understanding of automotive systems to prepare them for technical college, or to complete basic mechanical repairs at home.

Car Care/Consumer Automotive 08710 .5 Credit 10-11-12

This very basic, course will inform students about common automotive maintenance techniques. Students will be able to identify basic car parts, complete routine automotive maintenance, and diagnose basic automotive problems. The purpose of this course is to help students know what to look for when purchasing a vehicle, purchasing vehicle insurance, and preventing them from being overcharged by a repair shop.

Manufacturing Engineering (formerly Mini-Chopper) 08715 1 credit 10-12
Prerequisites Grade of "C" or better in 1 credit any Technology Education course and instructor's approval

This advanced, course allows high school students to earn both school and college credit while having fun. Students will be given the opportunity to design and build a major class project such as a mini-chopper motorcycle, high-mileage vehicle, formula 1 go-kart, or grill for a local manufacturing company. Student will complete or be judged against students from area school districts. This course will include skills needed in manufacturing, such as drafting, welding, and machining. It will also provide students with experience in budgeting, presenting to groups, teamwork, problem solving and communication. Students will gain understanding of all areas of technology education and will gain valuable engineering and problem solving skills. In addition, student may earn Articulated credit(s) from Lakeshore Technical College (LTC) by completing this course in good standing. (Note: This course can be taken more than one time for credit.)

OTHER

Home & Vehicle Maintenance/Repair 08725 .5 10-11-12 (Girls only)

This course is intended to provide female students with the skills necessary to properly and safely take care of maintenance/repairs on their home/apartment and vehicle. Girls will learn how to perform basic home/apartment, maintenance/repairs, as well as basic automotive maintenance/repairs, on their own.

Independent Study in Technology 08730 .5 or 1 Credit 11-12 Prerequisite: Grade of "B" or higher in an advanced Tech Education department course and consent of the Instructor

Independent Study in Technology is an opportunity for advanced students to apply principles, processes, and skills learned to the completion a project that reflects their advanced standing. Students will select an area of interest and develop knowledge in their area of interest.

WORLD LANGUAGES

<i>Course #</i>	<i>Title of Course</i>	<i>Year(s) Offered</i>	<i>Credit</i>	<i>Prerequisite</i>
08804	French 4	11-12	1	Grade of “B” or better in French 3
08805	French 5	12	1	Grade of “B” or better in French 4 or consent of instructor
08901	Spanish 1	9-10-11-12	1	Grade of “C” or better in Grade 8 English
08902	Spanish 2	10-11-12	1	Grade of “C” or better in Spanish 1
08903	Spanish 3	11-12	1	Grade of “B” or better in Spanish 2
08904	Spanish 4	12	1	Grade of “B” or better in Spanish 3 or consent of instructor
08905	Spanish 5	12	1	Grade of “B” or better in Spanish 4 or consent of instructor

French 4 08804 1 Credit 12 Prerequisite: French 3 -Grade of “B” or better or consent of the Instructor

This class is geared toward advanced level and highly motivated students with an interest in foreign language. Performance based classes prepare for immersion experiences in target language countries. Students must understand and express complex thoughts using inductive and subjunctive tenses. Further understanding of target cultures is acquired through the study of literature, music, art and customs. Exploration of application of World Language in world of work will continue.

French 5 08805 1 Credit 12 Prerequisite: French 4 - Grade of “B” or better

French 5 is an independent study for students who have achieved a 'B' or better in French 4. This course is for highly motivated students who wish to deepen their understanding of French grammar, literature, and history. Consent of the instructor is recommended.

Students who have demonstrated satisfactory performance in seventh and eighth grade Spanish at L.B. Clarke, have the option of taking Spanish 2 based upon the recommendation of the World Language Department.

Spanish 1 08901 1 Credit 9-10-11-12 Prerequisite: Grade “C” or better in Grade 8 English.

Spanish 1 concentrates on understanding, speaking, reading and writing on a beginning level. Students are expected to demonstrate all four communication skills. Areas to be covered include time, weather, conversational idioms, verb conjugation and mastery of vocabulary required, exposure to Hispanic culture through customs, art, and music and the concept of using a second language in the workplace.

Spanish 2 08902 1 Credit 10-11-12 Prerequisite: Spanish 1 - Grade of “C” or better

Spanish 2 is a continuation of skills acquired in Spanish 1. There is a greater concentration on using the spoken language. Spanish 2 is also performance-based and students are required to demonstrate all four skills. Emphasis on the use of second language in the workplace is continued.

Spanish 3 08903 1 Credit 11-12 Prerequisite: Spanish 2 - Grade of “B” or better

Spanish 3 is an advanced class with emphasis on grammar, extemporaneous speech, composition writing/literature and culture. Students are expected to demonstrate all four communication skills. Emphasis on the use of second language in the workplace is continued.

Spanish 4 08904 1 Credit 12 Prerequisite: Spanish 3 - Grade of “B” or better or consent of Instructor

Spanish 4 is a course for students of above-average ability who have had three years of Spanish on the high school level. Class work is conducted in Spanish for the most part. Students are expected to demonstrate all four communication skills. Special emphasis is placed on preparing for college placement exams. The curriculum for this year can include the study of Mexico, Latin America, or Spain in preparation for a home stay with a family in Spanish-speaking country. Emphasis on the use of second language in the workplace is continued.

Spanish 5 08905 1 Credit 12 Prerequisite: Spanish 4 – Grade of “B” or better or consent of Instructor

Spanish 5 is a continuation of the advanced level for students of above average ability. Class work is conducted in Spanish. Special emphasis is placed on preparing for college placement exams. The curriculum for this year can include the study of Mexico, Latin America, or Spain in preparation for a home stay with a family in a Spanish-speaking country. Continued demonstration of all four communication skills is expected. Emphasis on the use of second language in the workplace is continued.

Work Experience

Tech Prep 09003 .5-2 credits 12 (11 with counselor approval)

Students gain work experience through employment/volunteering in the community, or the school district. Students develop an employment portfolio based on their work experience and academic course work.

Youth Apprenticeship YA credits vary 11-12

Youth apprenticeships are available in the areas of automotive collision/technician, drafting and design, financial services, health services CNA or Pharmacy tech, industrial technology, information technology, hospitality, lodging, and tourism, manufacturing machining, or woods, production agriculture/animal science or vet technician, and welding. Students are chosen through an application and interview process. The program includes course work which may or may not be at TRHS, employment at mentored work site, and graduation required course work at TRHS. Applications are generally available in January and deadline is usually in early March. Information night is held in February. See counselor for additional details.

Youth Options YO credits vary 11-12

The Youth Options program gives Juniors and Seniors an opportunity to take a class at a local college if they are interested in a class that is not offered at TRHS. Students must apply by Oct 1 for second semester classes and March 1 for first semester classes. Students must meet the GPA pre-requisite (most often 3.0 or better) for the class. Students will be awarded high school and college credit for the completed class.