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## **NONDISCRIMINATION POLICY**

No person may be denied admission to Thorp Public Schools or be denied participation in, be denied the benefits of or be discriminated against in any curricular, extracurricular, pupil services, recreational or other program or activity because of the person's sex, race, religion, national origin, ancestry, creed, pregnancy, marital or parental status, sexual orientation or physical, mental, emotional or learning disability.

## PLAN AHEAD

Students are encouraged to discuss the course descriptions and their choices with their parents to select courses that are based on long-range goals and career choices. Resist the temptation to take a class because a friend is taking it or because you heard it was an easy class. Do not limit yourself to the minimum graduation requirements, but rather look at **long-range goals**. Even if you are undecided about your career path, as most students are, it is still a good idea to **keep your options open**. **Don't take the "easy road" because it can prevent you from seeking out opportunities in the future**. For example, we often have seniors who decide to apply to school at the last minute. It is not unusual for these seniors to be missing a class or two that they need for admission requirements. Even if, at this time, you are not planning on going on to school after high school, you never know what will happen in a year or two. It wouldn't hurt to take some college prep classes. It can only help you!

Make your course selections for the next school year very carefully. Students are expected to live with their choices. Remember, the master schedule is created on the basis of the student body's choices. When a student selects a class, he/she is basically asking the school to provide a specific educational opportunity. When the school provides those opportunities on the basis of a student's request, then the student should not change their decision because the opportunity was created specifically for them.

**\*\*Students need to remember that the right to choose classes carries with it an equal responsibility to live with the choices made. Once chosen, classes will be dropped only for very serious reasons. Often times, a dropped class will require a teacher approval and/or administration approval. \*\***

### **Additional Points to Consider:**

1. World languages might be best taken on the high school level rather than on the college level. Some colleges require two or more years of a single world language for admission.
2. Most post-high school educational institutions now require students to complete their composition work on a computer. We strongly recommend that all students be proficient in keyboarding and computer skills.
3. Do not sign up for classes lightly. It pays many times to take the more difficult, college prep courses even if you are not sure you are going to college.
4. School is a time to explore. Use the time to explore classes in all of the vocational areas.
5. Students are not allowed to have more than one study hall unless there are special circumstances approved by administration or special education services.

## THORP HIGH SCHOOL GRADUATION REQUIREMENTS

A total of **25 credits** are **required for graduation**, including:

Language Arts - 4 credits

Social Studies - 3 credits

Mathematics - 3 credits

Science - 3 credits

Health - ½ credit

Phy. Ed. - 1 ½ credits

Personal Finance - ½ credit

Computer Applications - ½ credit

Successful Completion of Civics Exam

**LANGUAGE ARTS:** Four (4) credits in Language Arts are required. This means that every student should have one English class per semester. The only exception to this is if a student is planning on attending a 4 year college or has not passed a previous semester of English class.

**SOCIAL STUDIES:** Three (3) credits in Social Studies are required. All students are required to take U.S. History, World History, and American Government.

**MATHEMATICS:** Three (3) credits in Mathematics are required. Placement in freshmen math will be made according to teacher recommendation and testing. Algebra I must be completed before taking Geometry.

**SCIENCE:** Three (3) credits in Science are required. All Freshmen will take Biology. Following Biology, students may choose to take Physical Science I (0.5 credit) OR Chemistry (1.0 credit). Following Physical Science I or Chemistry, students may choose to take Physical Science II (0.5 credit) and Physical Science III (0.5 credit) OR Physics (1.0 credit). It is recommended that students should have demonstrated “C” or above work in Algebra to take Chemistry unless recommended by the teacher. A minimum of a “B” average in all mathematics is strongly recommended for students taking Physics.

**HEALTH:** Health is required of all Freshmen.

**PHYSICAL EDUCATION:** One and one-half (1 ½) credits or three semesters taken over 3 years of Physical Education are required. A maximum of two credits are applicable towards graduation credits. Excused students must present written medical excuses from their doctor specifying the activities from which they are to be excused. Excuses must be for the current year, and on file with the principal.

**COMPUTER APPLICATIONS:** Formally Keyboarding I, this class can be taken in 7<sup>th</sup> grade or during freshman year.

**PERSONAL FINANCE:** One-half (1/2) credit in Personal Finance is required junior or senior year.

## CURRENT UNIVERSITY ENTRANCE REQUIREMENTS

All colleges and universities set their own entrance requirements and students must check into the schools they are interested in to find out the specific requirements for that school. Generally speaking, most of the schools in the **University of Wisconsin System** have similar requirements. Use the requirements below as a guideline.

- ❖ **English/Language Arts-4 credits.**
- ❖ **Social Studies-3 credits**
- ❖ **Mathematics-3 credits:** Algebra I, Algebra II, Geometry, Adv. Algebra or higher.
- ❖ **Science-3 credits.**
- ❖ **Electives-4 credits:** English, Social Studies, Math, Science, Computer Science, Fine Arts or Foreign Language all apply. Some universities do accept certain vocational credits toward university entrance requirements. Check with the specific university you are interested in.
- ❖ **World Language:** Some universities require two or more years of a single foreign language.

Note: Each institution may specify additional credit requirements.

## TECHNICAL COLLEGE ENTRANCE REQUIREMENTS

Technical Colleges, like Chippewa Valley Technical College, generally do not have overall admission requirements. Instead, they have specific requirements for each of their programs. Students must look at the program catalog of the technical college that they are interested in to find out more information.

## TRANSCRIPTED CREDITS

Thorp High School has transcribed credit agreements with Chippewa Valley Technical College (CVTC). **This means CVTC can give college credit for courses taken here at Thorp High School.**

**The current courses this applies to are listed below. They can also be found at:**  
<https://insider.cvtc.edu/pages/dual-credit#transcribed>

<u>If a student receives an A or B in this course</u>	<u>He/She may receive credit for this CVTC course</u>	<u>Credits</u>
Medical Terminology	501-101 Medical Terminology	2
Metals II	442-313 Welding-Automotive Tech	1
Criminal Justice	504-701 Criminal Justice	3
Micro Soft Office	103-102 Microsoft Office Suite	2
Math for Technical Trades	804-360 Math for Technical Trades	2
Adv. Math	804-224 College Algebra	4
Innovative Business Mindset	102-130 Innovative Business Mindset	3
Plant Science	001-121 Intro to Horticulture	3
Culture of Healthcare	501-104 Culture of Healthcare	2
Accounting	101-111 Accounting I	4
Animal Science	091-181 Intro to Animal Science	3
Marketing Principles	104-102 Marketing Principles	3
Biochemistry	806-186 Intro to Biochemistry	4
Mathematical Reasoning	804-134 Mathematical Reasoning	3
Calculus	804-236 Calculus & Analytic Geometry	5
	<u>UW Stout Course</u>	
Adv. Chemistry	CHEM 135 College Chemistry I	5

## AGRICULTURE

### **AG HORIZONS**

*Grade level: 9-10, Prerequisite: None*

*0.5 credit, Semester*

This course is required by all students who are interested in taking any other Agricultural-Science courses. This course explores careers and opportunities in plants, floriculture, landscaping, small animals, fish, wildlife and forestry. Many hands-on learning projects are used to increase awareness and learning.

### **PLANT SCIENCE**

*Grade Level: 9-11, Highly Recommended: Ag Horizons*

*0.5 credit, Semester*

\*\*\*0.5 credit of Thorp Science Credit needed for graduation

Horticulture is Wisconsin's second largest industry. During this hands-on course, you will learn new and innovative horticulture techniques while pruning trees, propagating plants and landscaping. You will be responsible for raising poinsettias, lilies or bedding plants. There will be many group projects in plant research and development. Prepare yourself for a green career working with living plants and developing marketing plans.

\*\*CVTC Transcribed Credit - 3 Credits\*\*

### **ADVANCED PLANT SCIENCE**

*Grade Level: 10-12, Prerequisite: Plant Science*

*0.5 credit, Semester*

Hands on projects in Plant Science experiments in which students develop a question and answer it through scientific procedure. Design a greenhouse and calculate the needs to run and maintain a production facility. Students will grow Poinsettias or Easter Lilies as a crop depending on the season as well as learn the art of Bonsai. Students will evaluate how genetically modified crops are produced and use test procedures to determine if crops are genetically modified as well as the need for GMO's and the future of plant breeding technology.

### **ANIMAL SCIENCE**

*Grade level: 9-11, Highly Recommended: Ag Horizons*

*0.5 credit, Semester*

\*\*\*0.5 credit of Thorp Science Credit needed for graduation

Any student that has ever been interested in raising large animals, becoming a veterinarian, or showing animals at the fair should take this course. With many hands-on activities, this class will explore the anatomy and management of beef, sheep, swine, and specialty animals.

\*\*CVTC Transcribed Credit - 3 Credits\*\*

### **LANDSCAPING**

*Grade level: 10-12, Highly Recommended: Ag Horizons*

*0.5 credit, Semester*

During this course, students will learn how to own and operate a small business. This course will focus on designing and implementing landscapes. Students will use computer based programs to design and landscape using the elements of design. This course will teach students how to stamp concrete, place patio pavers and plant trees and shrubs. Get hands-on experience in operating small equipment and using measuring tools. The majority of this course will be outdoors.

# AGRICULTURE

## **SMALL ANIMAL VET SCIENCE**

*Grade Level: 11-12, Highly Recommended: Ag Horizons* *0.5 credit, Semester*

The small animal industry is a rapidly growing area of agriculture. This course will require each student to take care of a species of small animal, reptile or fish. Students perform light veterinarian procedures; learn from area veterinarians the art of suturing, animal restraint and much more. Learn how to groom and clip dogs as you gain many career insights into the world of small animals.

## **WILDLIFE**

*Grade level: 10-12, Highly Recommended: Ag Horizons* *0.5 credit, Semester*

Looking for a career in the outdoors? This is the perfect class for you. Learn about Wisconsin wildlife species and wildlife management. Students will learn the art of taxidermy and airbrushing of fish, small animals and deer. Learn the art of deer antler scoring and management of whitetails in Wisconsin.

## **AGRICULTURAL MECHANICS – Tractor Restoration**

*Grade Level: 11-12, Highly Recommended: Ag Horizons* *1 credit, Year*

While completely disassembling and rebuilding a 50-60 horsepower tractor, students will learn how to read technical drawings and parts books. This hands-on course takes what is learned in the classroom for engine rebuild, part restoration, painting and detail work and puts it into practice. Student maintain record books each week as they work in every area of a tractor-auxiliary, electrical, hydraulics, power train and more. Limited to 12 students.

## **POWERS OF THE FUTURE --**

*Grade Level: 11-12, Highly Recommended: Ag Horizons* *0.5 credit, Semester*

In this course, students will investigate the need for renewable energy systems and emerging careers in renewable energy. Students will examine the basic design, function, cost, and other considerations associated with various “green” energy systems, including solar photovoltaic, solar thermal, wind, geothermal, and biomass. Students build and test voltage on wind turbines, test theory of hydrogen energy, and learn about many great careers in energy.

## **AQUACULTURE**

*Grade Level: 10-12, Highly Recommended: Ag Horizons* *0.5 credit, Semester*

The cultivation of water plants and animals for human use. Students will work with over 700 gallons of fish tanks while raising fish and producing an aqua crop. Each week fish are weighed and water quality tests are done to determine optimum fish quality. Students design a system to raise vegetables using the fish waste. At the end of the course a fish dinner along with a salad are enjoyed from the class project. This class is limited to 20 students!

## **FOOD SCIENCE & TECHNOLOGY**

*Grade level: 11-12, Highly Recommended: Ag Horizons* *0.5 credit, Semester*

Ever wonder about where your food comes from? Or why a McDonald’s burger can sit on the counter top and not show any signs of deterioration for 40 days? This career field is the fastest growing in the U.S. Students will develop food products, market them and enjoy them. Many hands-on labs. This class is limited to 20 students!

## AGRICULTURE

### **FOREST MANAGEMENT**

*Grade level: 10-12, Highly Recommended: Ag Horizons* *0.5 credit, Semester*

Work in our 160 acres of school forest while learning how to use G.P.S., orienteering techniques, tree measuring and harvesting. Proper techniques in planting trees and harvesting them are given. This hands-on course will prepare you for a great career in the forestry industry.

### **HORSE SCIENCE**

*Grade level: 10-12, Highly Recommended: Ag Horizons* *0.5 credit, Semester*

This course is designed to build knowledge and understanding of everything you need to know about a horse. We will learn how to select and judge horses so we can be wise consumers when purchasing horses. We will learn how to properly care for and manage horses from feeding to hoof care. We will also bring in live horses and speakers to better understand the horse world.

The horse business is a growing segment in the agricultural field. Students culminate the year with a day long horse trail ride.

### **BIOTECHNOLOGY**

*Grade Level: 11-12 Prerequisites - B or Better in Biology* *0.5 credit, Semester*

\*\*\*0.5 credit of Thorp Science Credit needed for graduation

Would you like to learn how to run DNA tests? Do you want to understand how DNA is used to identify diseases and criminals? Interested in trying the processes scientists will use to clone organs and other tissues in the future? Using the latest scientific technologies, students will learn to apply scientific methods of study and standard lab operating procedures through research and hands-on experiments. Students will become proficient in a variety of laboratory skills that are utilized throughout the biotechnology industry. This course will introduce students to the historical and technical concepts responsible for the rapidly growing biotechnology industry. Topics include the history of biotechnology applications such as pharmaceutical research and manufacturing, advancements in agricultural productivity as well as identifying the basic techniques and instrumentation used in these applications.



## ART

### **Intro to Art**

*Grade level: 9-12*

*0.5 credit, Semester*

This course is designed for students who are interested in taking an art class but are unsure of which would suit them best. In this course students explore the elements and principles of art and design. Students learn how to utilize these elements and principles to create visually interesting works of art. Students are introduced to a variety of mediums including various drawing materials, painting, graphic design, clay, etc.

### **Drawing and Painting**

*Grade level: 9-12*

*Prerequisite: Intro to Art*

*0.5 credit, Semester*

Drawing and Painting encourages students to push themselves past their limitations to develop a deeper understanding of two-dimensional artwork. Students explore the elements and principles of art and design through the use of various drawing and painting mediums.

### **Digital Art**

*Grade level: 10-12*

*0.5 credit, Semester*

This course offers students the opportunity to work with digital art programs to build the skills necessary for future careers in this field. Students learn the tools and techniques of creating art digitally on photoshop and other digital art platforms.

### **Sculpture**

*Grade Level: 10-12*

*0.5 Credit, Semester*

This course concentrates on the development of sculptural techniques through the exploration of various materials. Students develop their problem solving skills to build three-dimensional artworks that are visually interesting and solve a given problem.

### **Senior Studio**

*Grade level: 11-12*

*0.5 credit, Semester*

Senior studio is an independent art course offered to the senior class. Students complete art projects at their own pace with the freedom to choose what they create. Students are challenged to produce artwork that is unique.

### **Ceramics**

*Grade Level: 10-12*

*0.5 Credit, Semester*

This course offers students the opportunity to explore the nature of clay through handbuilding methods, throwing on the potter's wheel, and glaze application. Students work solely with clay to create a variety of three-dimensional ceramic works.

## BUSINESS EDUCATION

### ACCOUNTING I

*Grade level: 11-12, Prerequisite: None*

*1.0 credit, 2 Semesters*

This 2 semester course is designed to teach students how to keep records of financial transactions. It also helps students develop an overall financial picture of business operations. Such understanding is a good base for further study and career advancement in a variety of career fields, including those pursuing business, financial or management careers, any type of small business ownership, including but not limited to, farming, beauty salon, or auto body/repair. Accounting is for all persons who need to understand financial records so that improved economic decisions can be made on the job and at home.

\*\*\*CVTC Transcribed Credit- 4 credits\*\*\*

### INTRO TO BUSINESS

*Grade level: 9-12,*

*0.5 credit, Semester*

This course will introduce students to the basic structures of business. How business interacts with the economy, how businesses are organized and managed, and how businesses operate from all departments to be effective and profitable. We will cover many areas including Human Resources, Marketing, Financial Management along with Production and Business Operations.

\*\*\*This course is a prerequisite for the THS Enterprise class\*\*\*

### MARKETING PRINCIPLES

*Grade level: 10-12,*

*0.5 credit, Semester*

Unless you've been living under a rock, marketing has and always will play a significant role in the consumer choices you make every day. In this class you will learn about the power of influence, "who is the customer", the significance of marketing in the U.S. economy and its role in business success, and the functions of marketing (what are the 4 "P"s?). Other special topics will include sports and entertainment marketing, the use of social media, marketing research, and the unique and lucrative career opportunities available in marketing.

\*\*\*CVTC Transcribed Credit – 3 credits\*\*\*

### EMPLOYABILITY SKILLS

*Grade level: 11-12, Prerequisite: None*

*0.5 credit, Semester*

Employability skills are necessary for getting, keeping, and doing well on a job. This course introduces you to the skills employers are looking for. This course will help identify the skills you have and the skills you may need to work on so you can do well in industry jobs.

Good employees have confidence in themselves; communicate and collaborate with others honestly and openly; display respect for themselves, co-workers, and supervisors. Good employees know how to work with others - both workers and customers - regardless of other people's diversity and individual differences. This course will help you learn to recognize your strengths and build the confidence and relationship skills you need to succeed as a part of a team and part of a group.

\*\*\*This class is a prerequisite for the Work-Based Learning.\*\*\*

## **BUSINESS EDUCATION**

### **LESSONS IN LAW**

*Grade level: 10-12, Prerequisite: None*

*0.5 credit, Semester*

In the U.S. citizens are protected by many rights and freedoms provided under the legal system. So wouldn't it make sense to know more about them? This course will cover multiple legal topics, including the rights and responsibilities earned in turning 18, marriage/divorce and traffic laws, the structure and roles of key players in the court system (what is really going on during those courtroom trials?), and the differences between civil and criminal court cases. Students will also benefit from understanding the difference between being an employee at will or labor union member. What is required to enter into a contract and what happens if someone "breaks" it? How are citizens protected as consumers, owners, and creators of property? There will be opportunities to learn from many experts in the law and analyze actual legal situations.

### **SPORTS AND ENTERTAINMENT MARKETING**

*Grade level: 10-12, Prerequisite: None*

*0.5 credit, Semester*

This course will take the concept of marketing a product or service to a whole new level as the concepts covered will focus on two exciting topics – sports and entertainment. What does it take to design, build, name, maintain, market, and operate a sports or entertainment stadium? Students will make these decisions using a visual computer simulation of a sports and entertainment venue. Other topics discussed will include amateur, college, and professional sports, sponsorship, promotion and endorsement of products and services during local, state, and national sports and entertainment events, and the relationship between fans and the public image of sports players and entertainers.

### **MICROSOFT OFFICE SUITE**

*Grade level: 11-12*

*0.5 credit, Semester*

This course is essential for all students. It will enhance employability skills for the student entering the job market after graduation to the student enrolling in a two or four-year college or technical training. Microsoft Office is a college and industry-standard, where the Google Suite is only used in elementary through high school educational settings.

-Students will review basic, intermediate and advanced functions of Word, Excel, PowerPoint and Access.

-This is a transcribed course earning a semester grade along with 2 credits at Chippewa Valley Technical College. It may also transfer as a computer science elective at area universities.

-Additionally, we offer the Microsoft Office Specialist Certification, studies have shown that this often results in job advancement and higher salaries. It will look great on applications and resumes.

\*\*\*CVTC Transcribed Credit- 2 credits\*\*\*

## BUSINESS EDUCATION

### PERSONAL FINANCE

Grade level: 11-12, Prerequisite: None

0.5 credit, Semester

**Required course for juniors or seniors.** This course is designed to provide students with the tools to manage personal finance decisions to operate intelligently and efficiently in everyday life after high school graduation. The learner will take part in career planning, personal budgets, bank accounts, evaluate investment options, analyze the use of personal credit, analyze personal risk and how to mitigate that risk through the use of insurance, and explore the benefits of owning versus renting a home.

### INNOVATIVE BUSINESS MINDSET

Grade level: 11-12 Prerequisite: None

0.5credit,

Semester

Students who complete this course will be able to define traits and mindset of entrepreneurs. They will use tools to determine their personal entrepreneurial traits. Students will examine a variety of innovative companies (small, social, and global). Students will also understand the difference between entrepreneurs and intrepeneurs. Students will be evaluating existing business plans.

\*\*CVTC Transcribed Credit - 3 Credits\*\*\*

## WORK-BASED LEARNING

Grade level: 11-12 Prerequisite: *Employability Skills*

Students will continue to enhance their employability skills in the work place. Students will be allowed the privilege to leave campus to work at their job. Certain requirements will need to be met and pre-approved by the School to Work Coordinator before entry into this program. See Mrs. Sherfield with any questions.

\*\*\**Students must pass all classes in the preceding semester to be eligible.*\*\*\*

### Become a Youth Apprentice

Youth Apprenticeship (YA) integrates school-based and work-based learning to instruct students in employability and occupational skills defined by Wisconsin industries. Local programs provide training based on statewide youth apprenticeship curriculum guidelines, endorsed by business and industry. Students are instructed by qualified teachers and skilled worksite mentors. Students are simultaneously enrolled in academic classes to meet high school graduation requirements, in a youth apprenticeship related instruction class, and are employed by a participating employer under the supervision of a skilled mentor.

For more information see Mrs. Sherfield or go to:

<https://dwd.wisconsin.gov/apprenticeship/ya-applicants.htm>

## FAMILY AND CONSUMER EDUCATION

### **FOODS AND NUTRITION**

*Grade level: 9-12, Prerequisite: None*

*0.5 credit, Semester*

The course emphasis is on food and nutrition, while studying various factors that influence food choices and preparation. This class will be an asset for preparing foods for yourself or your family. You will learn about the My Plate Recommendations, safety and nutritional needs using the textbook *Guide to Good Food*, as well as how to accurately read and follow recipes.

### **ADVANCED FOODS**

*Grades: 10-12 Prerequisites: Foods and Nutrition 0.5 credit, Semester*

This course will include advanced food preparation techniques, careers available in the foodservice industry, holiday cooking and foreign foods. A variety of gourmet preparation techniques will be introduced and students will be encouraged to try new and different things.

### **SEWING, QUILTING AND CRAFTS**

*Grades: 9-12 Prerequisites: None*

*0.5 credit, Semester*

Students in this course will learn the basics of sewing through project-based learning. The class culminates in students creating their own individual projects based on the skills gained through the semester. This class is great for students interested in basic sewing skills all the way to fashion design.

### **DIY**

*Grades: 10-12 Prerequisites: None*

*0.5 credit, Semester*

Do you love to create things? Or learn new skills around the home? Then this class is for you. We learn anything from crafts to soap-making, home renovation to furniture restoration. Each student also learns to make and keep an epoxy tumbler and will become proficient in using a Cricut.

### **EXPLORING TEACHING AS A PROFESSION**

*Grades 10-12 Prerequisites: None*

*0.5 Credit, Semester*

In this course, the students will explore teaching as a possible profession. The students will read articles and listen to podcasts by some of education's most prominent professionals. The students will learn about child development, psychology, best teaching practices, and how to pursue a career in education. Students will also be expected to volunteer in classrooms and observe teachers in action.

## LANGUAGE ARTS

### **ENGLISH 9**

*Grade level: 9, Prerequisite: None*

*1.0 credit, Year*

**Required freshman course.** This language arts course provides a foundation for the semester courses that follow. Within this year, various units are dealt with such as writing, vocabulary, short story, poetry, drama, nonfiction, and informational selections.

### **ENGLISH 10**

*Grade level: 10, Prerequisite: None*

*1.0 credit, Year*

**Required sophomore course.** This required, full-year course for all sophomores will focus on reading fiction and non-fiction pieces along with poetry and drama selections. Various writing opportunities will be given throughout the year. Vocabulary, grammar, usage, and mechanics will be studied on a regular basis.

### **AMERICAN LITERATURE & WRITING**

*Grade level: 11*

*1.0 credit, Year*

The curriculum will focus on American writers, following historical periods from Native American cultures to the present. Selections from such authors as Dickinson, Whitman, Emerson, Thoreau, Jacobs, Poe, Hawthorne and Fitzgerald will be studied. Rhetoric will be studied and employed during the speech component in addition to research techniques and a variety of essay opportunities/other forms of summative writing assessments.

### **ISSUES IN LITERATURE**

*Grade level: 12*

*1.0 credit; Year*

This course is a Senior Literature course. We will focus on several novels and nonfiction books and accompanying writing activities. Argument and research using both MLA and APA are stressed in the writing component.

### **LITERATURE OF THE WORLD WARS**

*Grade Level: 10-12, Prerequisite: English 9*

*0.5 credit, Semester*

In this course, students will engage with a wide variety of texts (historical fiction, informational text, etc.) revolving around the World Wars. In addition, the students will be expected to conduct research and write informative and argumentative essays related to the topics of study.

### **CLASSIC LITERATURE**

*Grade Level: 10-12, Prerequisite: English 9*

*0.5 credit, Semester*

In this course, the students will engage with classic literature including novels and short stories. The class will research and study the time periods during which each text was written. In addition, the students will be expected to write informative, persuasive, and argumentative essays to show their understanding of the literature.

# MATHEMATICS

## **PRE-ALGEBRA**

*Grade level: 9-10,*

*1.0 credit, Year*

*Instructor's Recommendation and Test Scores.*

This is a basic Algebra course geared for entering freshmen or students who are preparing for the rigor of Algebra 1. Students are selected according to teacher's recommendations and test scores. Students will continue to develop basic math skills while being introduced to the basic concepts of Algebra.

## **ALGEBRA I**

*Grade level: 9-11, Prerequisites: Pre-Algebra,*

*1.0 credit, Year*

*Instructor's Recommendation and Adequate Test Scores.*

This is a basic Algebra course geared for entering freshmen or students who have completed a minimum of Pre-Algebra. Students are selected according to teacher's recommendations and test scores. Five basic algebra skills are stressed while the usual range of topics is covered. The five skills are:

1. Understanding the makeup of the Real Number System.
2. Operating with the Real Numbers.
3. Understanding the properties of equality as applied to the solution of equations.
4. Working with algebraic fractions.
5. Problem solving skills.

## **GEOMETRY**

*Grade level: 9-12, Prerequisite: Algebra I*

*1.0 credit, Year*

*Instructor's Recommendation and "C" or better in Algebra I. **9th Graders that had Algebra in 8<sup>th</sup> grade need a "B" or better.***

This is a one year course designed for college bound students who have completed Algebra I. It helps students understand the nature of a mathematical system and to appreciate the basic structure of geometry. It helps students perceive the role of inductive and deductive reasoning in both mathematical and nonmathematical situations. Those students who are planning to attend a post-secondary school are strongly advised to take geometry, as it is required by a number of colleges for entrance into the college. Students planning on going to technical college mathematics should check to see if geometry is a required course for entry into their future course of study.

## MATHEMATICS

### **INTERMEDIATE ALGEBRA**

*Grade level: 10-12, Prerequisites: Algebra I; Geometry*

*1.0 credit, Year*

*Instructor's Recommendation and "C" or better in Geometry*

This is a one-year course designed for the college bound student. It covers the following: a comprehensive review for the basic concepts of elementary algebra, a study of functions, and introduction to trigonometry, applications of algebra, and an introduction to activities that develop mathematical skills. Problem solving is stressed. Students need a strong background in Algebra I and it is recommended that students have an A or B average in Algebra I before taking Algebra II. This is an elective advanced level class and students will be expected to do advanced level work.

*\*Note: Some students may take Geometry and Int.Algebra simultaneously. Please see your math instructor for more information.*

### **ADV. ALGEBRA**

*Grade level: 11-12, Prerequisites: Geometry, Algebra II*

*1.0 credit, Year*

*Instructor's Recommendation and "C" or better in Algebra II and Geometry*

This consists of about a semester of study devoted to functional relationships. Included is the idea of a functional relationship, followed by the study of linear, quadratic, exponential and logarithmic functions and culminating with intensive study of circular (trig.) functions. The rest of the year is taken up with the study of sundry topics including binomial theorem, conic sections, determinants and theory of equations.

**\*\*\*CVTC Transcribed Credit\*\*\***

### **STATISTICS**

*Grade level: 11-12, Prerequisites: Geometry, Algebra II*

*1.0 credit, Year*

*Instructor's Recommendation and "C" or better in Algebra II and Geometry*

This is a one year course covering basic statistics and progressing toward a college level statistics course with applications drawn from a wide variety of fields of study. It is designed for students wishing to further their math education for post-secondary level. There will be the opportunity to take the AP test at the completion of this course.



## MATHEMATICS

### **CALCULUS & ANALYTIC GEOMETRY**

*Grade level: 12, Prerequisite: Adv. Algebra*

*1.0 credit, Year*

*Instructor's Recommendation and "B" or better in Adv. Algebra*

This course provides a thorough treatment of differential calculus, including functions, limits, continuity, the derivative, rules of differentiation, and implicit differentiation, as well as applications to graphing, optimization, and related rates. The course concludes with an introduction to integral calculus, including anti-derivatives, the definite integral, the Fundamental Theorem of Calculus, and its application to finding areas and volumes.

\*\*\*CVTC Transcribed Credit\*\*\*

### **MATH FOR TECHNICAL TRADES**

*Grade level: 11-12, Prerequisite: Algebra 1*

*1.0 credit, Year*

This year long transcribed credit class provides the mathematics behind Automotive and Diesel Mechanics, Machine Tooling, and Electrical Power Distribution. In this class there will be basic mathematics- adding, subtracting, multiplying, and dividing with decimals and fractions, conversions and other manipulations of numbers. There will be a broad learning of vocabulary to go along with the learning of math.

\*\*\*CVTC Transcribed Credit\*\*\*

### **MATHEMATICAL REASONING**

*Grade Level: 11-12,*

*1.0 Credit, Year*

All students need to be able to make reasonable decisions about fiscal, environmental, and health issues that require quantitative reasoning skills. An activity based approach is used to explore numerical relationships, graphs, proportional relationships, algebraic reasoning, and problem solving using linear, exponential and other mathematical models. Students will develop conceptual and procedural tools that support the use of key mathematical concepts in a variety of contexts. (This course may be used as the first of a two part sequence that ends with Quantitative Reasoning as the capstone general education math requirement-at CVTC)

\*\*\*CVTC Transcribed Credit\*\*\*

## PERFORMING ARTS

### **BAND**

*Grade level: 9-12, Prerequisite: Proficiency on band instrument* *1.0 credit, Year*

This is a class that meets five days a week to rehearse numerous types of music. Various bands that stem from concert band are jazz band, marching band and pep band. Some of the activities that these bands perform at are athletic events, parades, concerts, music contests, solo-ensemble (both district and state), pep rallies, Veteran's Day, Memorial Day, graduation and other programs that may happen during a given year. A prerequisite is the ability to perform at an intermediate or advanced level of proficiency on a band instrument.

### **MUSIC KEYBOARDING**

*Grade level: 9-12, Prerequisite: None* *0.5 credit, Semester*

This semester course is designed for students who are interested in learning how to play the piano. Students will learn how to read music, play a keyboard instrument and make simple melodies. We will perform in class for each other.

### **CONCERT CHOIR**

*Grade level: 9-12, Prerequisite: None* *1.0 credit, Year*

This course is open to any Thorp High School student. The class meets five days per week and receives one (1) credit per year. The choir performs for Veterans' Day ceremonies, Christmas Concerts, W.S.M.A. district large group festivals, graduation ceremonies and concerts and/or Fine Arts Program in the spring. Individual choir members may sing the Star Spangled Banner for athletic events, participate in W.S.M.A. district solo-ensemble festivals, and State solo-ensemble festivals if they receive a starred first at district level. Choir members may perform at other community functions as a large group or small group if the occasion arises. Students may earn points for awards through performances in large group, small group or individually.

### **THEATER PRODUCTION I**

*Grade Level: 9-12 0.5 credit, Semester*

Do you have a love for Dramatics and the Theater? Maybe you haven't taken the plunge into Forensics or Drama Club. Maybe you have and just can't get enough. This is the class for anyone with any interest in what makes it all click. When you take this semester class expect to learn acting skills, characterization, history of theater, movement, performance skills, script work, and even some theater and costume design.

### **THEATER PRODUCTION 2**

*Grades: 9-12 Prerequisites: Theater Production 1* *0.5 credit, Semester*

Building upon the skills learned in Theater Production 1, this class dives deeper into various subjects including scene work, Shakespeare, design, and more. This class is great for both the avid theater lover and those just wanting to have fun and improve their social skills.

## PHYSICAL EDUCATION

### PHY ED 9

*Grade level: 9, Prerequisite: None*

*0.5 credit, Semester*

**Required course for freshman.** This class meets five days a week for one semester. The course will cover four units: Creating a Community of Learners, Fitness, Dance and Rhythms, and Lifetime Activities. The focus of this course is to begin the transition from middle school PE, which focuses on game specific tactics and skills, to setting up a foundation of knowledge of basic physical activity and fitness principles that will help students become independent lifelong movers.

### PHY ED 10-11

*Grade Level: 10-11, Prerequisite: None*

*0.5 credit, Semester*

There are two sections available in each semester. PE II in the fall and PE III in the spring. Students are only allowed to take each section once. This course is centered on fitness and lifetime activities. By the end of the semester students will be able to create their own fitness plans to improve or maintain their personal fitness levels, monitor their progress along the way, and make adjustments as necessary for personal growth. They will also learn a variety of lifetime activities they can participate in beyond high school so they can be active and healthy adults.

### STRENGTH AND CONDITIONING

*Grade Level: 10-12, Prerequisite: None*

*0.5 credit, Semester*

Welcome to Strength and Conditioning. This course is designed for both athletes and non-athletes. It includes instruction in the basic principles of strength training and conditioning for personal fitness and development. Students will learn basic skills and knowledge associated with resistance training, aerobic conditioning and anaerobic conditioning. Additionally, students will have opportunities to gain knowledge of health related fitness concepts, practice personal and social skills, and gain understanding of how a healthy lifestyle impacts health, fitness, and physical performance.

## HEALTH

*Grade level: 9, Prerequisite: None*

*0.5 credit, Semester*

**Required course for all freshman.** The Health Education content teaches lifelong skills in the areas of personal health, mental and emotional wellness, fitness and nutrition, tobacco, drug and alcohol prevention, human sexuality and healthy relationships, emergency first aid and CPR. Students will be provided information on which to base value judgments as it pertains to the changing society.

## SCIENCE

### **BIOLOGY**

*Grade level: 9*

*1.0 credit, Year*

#### **Required course for freshman and graduation.**

Students will be exploring the 6 unifying principles of biology through an inquiry based program. The principles include Adaptation, Homeostasis, Energy, Matter, and Organization, Reproduction and Inheritance in Living Systems, Development, and Ecology. Inquiry activities and laboratories are an integral part of this course allowing students to obtain deeper understanding of the processes of biology by making observations, making inferences, assembling evidence, developing hypotheses, designing experiments, collecting data, analyzing and presenting results, and communicating and evaluating conclusions.

### **PHYSICAL SCIENCE I**

*Grade level: 10-12, Prerequisite: None*

*0.5 credit, Semester*

#### **Physical Science I or Chemistry is required for graduation.**

Physical Science I is designed to explore physical science in an active, inquiry-based fashion. The focus of this course is to investigate the structure and properties of matter, chemical reactions, nuclear processes, and energy in chemical processes and everyday life. Related earth and space science concepts will also be covered. This course is lab intensive and you will be expected to maintain an accurate log of scientific studies. In order to demonstrate mastery of the concepts and practices you learned during our labs and activities, we will be tackling real-life, meaningful, and fun challenges. A composition-style notebook and scientific calculator are needed.

### **PHYSICAL SCIENCE II**

*Grade level: 11-12, Prerequisite: Physical Science I or Chemistry*

*0.5 credit, Semester*

#### **Physical Science II and III or Physics is required for graduation.**

Physical Science II is designed to explore physical science in an active, inquiry-based fashion. The focus of this course is to investigate the forces, motion, interactions, and energy. Related Earth and space science concepts will also be covered. This course is lab intensive and you will be expected to maintain an accurate log of scientific studies. In order to demonstrate mastery of the concepts and practices you learned during our labs and activities, we will be tackling real-life, meaningful, and fun challenges. A composition-style notebook and scientific calculator are needed.

### **PHYSICAL SCIENCE III**

*Grade level: 11-12, Prerequisite: Physical Science II*

*0.5 credit, Semester*

#### **Physical Science II and III or Physics is required for graduation.**

Physical Science III is designed to explore physical science in an active, inquiry-based fashion. The focus of this course is to investigate the forces and motion, wave properties, electromagnetic radiation, the universe and its stars, and Earth's place in the universe. This course is lab intensive and you will be expected to maintain an accurate log of scientific studies. In order to demonstrate mastery of the concepts and practices you learned during our labs and activities, we will be tackling real-life, meaningful, and fun challenges. A composition-style notebook and scientific calculator are needed.

## SCIENCE

### CHEMISTRY

*Grade level: 9 with instructor permission, 10-12,*

*1.0 credit, Year*

*Prerequisite: Algebra I with a Grade of C or better*

**Physical Science I or Chemistry is required for graduation.**

Chemistry is a one-year, inquiry-based course designed to cover the basic concepts of chemistry leading to the understanding of the composition, properties, and changes in matter. Study of atomic structure, periodic table, chemical bonding, nomenclature, mole concept, chemical reactions, chemical equations, stoichiometry, and states of matter are undertaken. Laboratory and general activities that combine conceptual understanding with problem solving are integrated into this course. A large part of the course requires a comprehensive understanding of Algebra. A composition-style notebook and scientific calculator are needed.

### ADVANCED CHEMISTRY

*Grade level: 11-12*

*1.0 credit, Year*

*Prerequisite: Chemistry & Algebra II with a Grade of B- or better*

Advanced Chemistry is a one-year course designed to be a continuation and expansion of Chemistry. General chemistry topics covered will include: atomic theory, atomic and electronic structure, chemical bonding, molecular structure, stoichiometry, state of matter, formulas and equations, solutions, gas laws, thermochemistry, titrations, and oxidation-reduction basics. Emphasis is placed on developing college level problem-solving techniques and strategies. A college preparatory delivery, as well as college level textbooks and publications, will be provided. This course will benefit students pursuing manufacturing, health science, and ag science related careers. A scientific calculator is needed.

\*\*\*UW STOUT DUAL CREDIT COURSE\*\*\* CHEM 135 COLLEGE CHEMISTRY I

### PHYSICS

*Grade level: 10 with instructor permission, 11-12,*

*1.0 credit, Year*

*Prerequisite: Geometry with a Grade of B or better and Chemistry or Physical Science I*

**Physical Science II and III or Physics is required for graduation.**

Physics is a one-year course offered to junior and senior students that have completed chemistry and have shown a better than average performance in Algebra II. Basic course content includes a study of measurement, kinematics, dynamics, forces, motion, work & energy, momentum, states of matter, waves, sound and light. Students will use vectors to analyze force and motion and are introduced to different measuring systems and measuring instruments. A study of basic physical laws is accomplished through the use of discussion and laboratories.

## SCIENCE

### **ADVANCED BIOLOGY**

*Grade level: 10-12*

*0.5 credit, Semester*

Prerequisite: Biology with a Grade of C or better

Advanced Biology is a college preparatory course emphasizing biological research and analysis. The course briefly reviews concepts from Biology and moves on to pursue other areas in more depth. The course will cover advanced topics that include ecology, environmental science, bacteria, viruses, protozoa, algae, fungi, and plants. Students who wish to independently investigate some of their own interests in biology are encouraged to enroll.

### **ANATOMY AND PHYSIOLOGY I**

*Grade level: 10 with instructor permission, 11-12,*

*0.5 credit, Semester*

Prerequisite: Biology with a Grade of C or better

Did you know the human body is comprised of over 70 trillion cells? Did you also know there are over 200 different types of cells in our body? Offered to juniors and seniors, Anatomy and Physiology I will explore how these cells interact with one another. Topics will include the organization of the human body, the chemical basis of life, cells, tissues, genetics, blood, nutrition and metabolism, and growth and development. Students will also begin study on individual body systems. Dissections and labs will be on a per unit basis.

### **ANATOMY AND PHYSIOLOGY II**

*Grade level: 10 with instructor permission, 11-12*

*0.5 credit, Semester*

*Prerequisite: Biology*

Our body consists of eleven complex units called systems. Each system is dependent on one another for our very existence. Anatomy and Physiology II will study how each system interacts with one another to make us unique individuals. Dissections and labs will be on a per unit basis. Although Anatomy and Physiology I is not a prerequisite for this class, it is highly recommended.

### **MEDICAL TERMINOLOGY**

*Grade level: 11-12, Prerequisite: Biology*

*0.5 credit, Semester*

Students will be exploring the component parts of medical terms: prefixes, suffixes, and word roots. Students practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as systemic and surgical terminology.

**\*\*CVTC Transcribed Credit - 3 Credits\*\*\***

### **FRESHWATER SCIENCE**

*Grade Level: 11-12*

*0.5 credit, Semester*

*Prerequisite: Biology & Physical Science I or Chemistry with a C or better*

The study of freshwater science is termed limnology. What is limnology? It is the study of inland waters. Specifically, it integrates the biological, chemical, physical, geological, and ecological interactions that define aquatic systems. Course topics may include the hydrologic cycle, water quality, freshwater ecosystems, lotic habitats (e.g., streams, groundwater), lentic habitats (e.g., ponds, lakes, wetlands), as well as freshwater fish, mammals, amphibians, and waterfowl. This course offers opportunities for numerous field and laboratory investigations. For example, we will be making weekly/bi-weekly field trips to the area creek, as well as handle/study freshwater organisms. You will learn to make informed decisions using critical thinking and scientific problem solving. A composition-style notebook and scientific calculator are needed.

## SCIENCE

### **MARINE SCIENCE**

*Grade Level: 11-12*

*0.5 credit, Semester*

*Prerequisite: Biology & Physical Science I or Chemistry with a C or better*

Oceanography is the study of the ocean. Marine Science is a broad field of study that covers the link between oceanography and marine biology. Oceanography is the study of the ocean. Marine biology, closely related to biological oceanography, is the study of marine species. In this course, we will tentatively study the geography and geology of ocean basins; chemistry of sea water; physical dynamics of currents, waves, and tides; coastal processes; biology of diverse ecosystems such as deep sea hydrothermal vents, coral reefs, rocky intertidal zones, and estuaries; and human effects on marine environments. This course offers opportunities for numerous laboratory investigations. You will learn to make informed decisions using critical thinking and scientific problem solving. A composition-style notebook and scientific calculator are needed.

### **BIOCHEMISTRY**

*Grade level: 11-12*

*1.0, Year*

*Prerequisite: Chemistry with a grade of B- or better*

Biochemistry is a one-year course designed to cover the organic and biological chemistry necessary for the nursing and allied health (e.g., dietitians, medical technologist, dental hygienists, etc.) career preparation. It will offer college-bound students a strong background in basic biochemistry. Specifically, we will cover recognizing the structure, physical properties, and chemical reactions of organic molecules, body fluids, and acids, as well as biological functions and their relationships to enzymes, proteins, lipids, carbohydrates, and DNA. Emphasis is placed on developing college level problem-solving techniques and strategies. A college preparatory delivery, as well as college level textbooks and publications, will be provided. This course will benefit students pursuing health science and ag science related careers. A scientific calculator is needed.

\*\*\*CVTC Transcribed Credit\*\*\*

## SOCIAL STUDIES

### **U.S. HISTORY**

*Grade level: 9, Prerequisite: None*

*1.0 credit, Year*

**Required course for freshman.** U.S. History 9 will take students on a journey through United States History starting with the post-Reconstruction era and culminating with a survey into the political, economic, and technological outlook for the 21<sup>st</sup> century. Students will examine change and continuity over time in order to develop historical perspectives, explain historical relationships, and analyze issues that affect the present and the future. Students will develop an understanding of their historical roots and how past events have shaped their current world. In developing these insights, students will know what life was like in the past and how things have changed and developed over time. Reconstructing and interpreting historical events provides for and develops informed perspectives in addressing the past, the present, and the future.

### **WORLD HISTORY**

*Grade level: 10-11, Prerequisite: US History*

*1.0 credit, Year*

**Required course.** Students will gain insights and knowledge about the world with an emphasis on its history, geography and economic systems. A variety of historical periods will be explored beginning with prehistory then continuing through early civilizations and the classical civilizations. Global connections are sought by expanding the student's understanding of diversity of issues and world regions that mix historical and current perspectives. These themes will be explored through the development of a variety of skills and teaching strategies. Some of the skills emphasized will deal with critical thinking, collaboration, community building and tolerance. Students will also be encouraged to develop investigative skills using the library and Internet search engines.

### **AMERICAN GOVERNMENT**

*Grade level: 10-11, Prerequisites U.S. History and World History*

*1.0 credit, Year*

**Required course.** Students will gain an understanding of the rights and duties of citizens. Areas of exploration will be the traditions of our democracy, the branches of the Federal Government, the election process, State and local government. These areas will be explored through guest speakers, field trips, videos, lectures, computer simulations, a city planning project, a mock trial, and activities that develop skills in basic research techniques.

### **PSYCHOLOGY:**

*Grade level: 11-12, Prerequisite: None*

*0.5 credit, Semester*

Surveys the major principles of psychology. Introduces the history of psychology, learning and memory, perception, feelings and emotions, personality, abnormal psychology, altered states of awareness, and sleep and dreams. Opportunities for cooperative learning as well as the use of creative problem solving techniques will also be provided.



## SOCIAL STUDIES

### **PSYCHOLOGY II:**

*Grade level: 11-12 Prerequisite: Intro. to Psychology recommended, but not required.*

*0.5 credit, Semester*

Building off of the principles learned in Psychology, students will learn more about the factors that influence human behavior. This course introduces theories of personality, motivation and emotion, gender roles, psychological disorders, methods of therapy, and an introduction to social psychology and forensic psychology.

### **INTRODUCTION TO CRIMINAL JUSTICE**

*Grade level: 11-12, Prerequisite: None*

*0.5 credit, Semester*

In this course students will examine the criminal justice system from both a historical and current perspective. Students will determine modern police functions from an historical perspective, identify the role of law enforcement officers in American society; differentiate between the roles and functions of federal, state, and local law enforcement agencies; explore the variety of career opportunities in the criminal justice system; apply professional principles as a criminal justice professional; examine internal and external controls by describe how professionalism, ethics, and moral standards relate to a criminal justice career, examine how laws and the court's findings provide guidance and how each community lends to the atmosphere of an organization.

**\*\*\*CVTC Transcribed Credit- 3 credits\*\*\***

### **CURRENT AMERICAN ISSUES**

*Grade level: 11-12, Prerequisite: None*

*0.5 credit, Semester*

The course will actively explore complex issues in our society such as social justice, politics, energy use, environmental issues, education, and public health. This course also explores current, arguable topics such as the war on drugs, gun violence, prison systems, racism, sexism, immigration, climate change, healthcare systems, pandemics, and affirmative action. Keep in mind that when studying current issues, you must examine both sides in order to make a well informed argument. This course is not about arguing to see which is correct; it is about analyzing both sides and understanding the opinions of varying sides when discussing controversial topics. The study of current events is a perfect way for students to practice identifying relevant information, analyzing opposing views, forming opinions, and expressing themselves clearly.

## **TECHNOLOGY EDUCATION**

\*Note: Technology Education I & II are the first courses that 9th grade students can take as an elective, except for Basic Computer Programming and Computer and Computer Hardware and Software Maintenance.

### **TECHNOLOGY EDUCATION I**

*Grade level: 9-12, Prerequisite: None*

*0.5 credit, Semester*

This is an introduction class to the different areas of the technology education department. Topics covered will include: Technical Drawing, Industrial Design, Production Tool use, Woodworking Production, and Electricity / Electronics, Student projects will include CO2 race cars and small woods projects as well as other design projects. This course is a requirement to enter other Technology Education classes.

### **TECHNOLOGY EDUCATION II**

*Grade level: 9-12, Prerequisite: Tech Ed I*

*0.5 credit, Semester*

This course is a second course offered in the program. We build off of Tech. Ed 1 class with exciting projects in construction field, manufacturing, and problem solving: all expose students to a vast array of occupations in the business sector. Within these areas, students will further their activities to include: metalworking, woodworking, and problem solving activities.

### **WOOD INDUSTRY I**

*Grade level: 10-12, Prerequisite: Tech Ed I & Tech Ed II*

*0.5 credit, Semester*

This class is designed to allow students to become familiar with materials and processes used in woodworking. The course is designed to provide you the opportunity to successfully work with wood. You will learn the proper and safe operation of hand tools and machines by building a required project. Each student will learn to develop and read a working drawing and plans.

### **WOOD INDUSTRY II**

*Grade level: 10-12, Prerequisite: Woods I*

*0.5 credit, Semester*

In Woods Technology II, students are expected to refine previously learned woodworking skills and achieve a higher level of competence working with tools and materials.

Individualized projects focus skills on furniture making and other projects conducive to custom woodworking. Students will also develop leadership skills by working cooperatively with other students in the class.

### **AUTO BODY REPAIR**

*0.5 credit, Semester*

*Grade Level: 10 -12, Prerequisites: Technology Education I/II, Basic Auto. & Home Maint.*

The course of Auto-Body repair will give the students skills in auto body collision damage repair. Instruction is provided on metal finishing, panel repair using plastic filler, weld on panel replacement, refinishing, and frame repair. Students will develop skills in body repair and body frame construction, painting, and mechanical systems that will enable students to return collision damaged vehicles to pre-accident condition.

## TECHNOLOGY EDUCATION

### **METALS I**

*Grade Level: 10-12, Prerequisite: Tech. Ed. I & Tech. Ed. II* *0.5 credit, Semester*

This course introduces skills used in MIG welding, Arc welding, TIG welding, Oxy/Fuel Welding and cutting, plasma cutting, CNC plasma cutting and machining and fabrication with an emphasis on the safe operation and setup of the lathe and milling machines.

### **METALS II -**

*Grade level: 10-12, Prerequisite: Tech Ed I and II, Metals I* *0.5 credit, Semester*

This course offers students the opportunity to learn and explore the many aspects of metals manufacturing. Students will explore a variety of welding processes through hands-on interaction through Chippewa Valley Technical College curriculum. These processes may include: oxygen-acetylene welding and cutting, plasma cutting, shielded metal arc welding, and gas metal arc welding. It is our goal to explore as many manufacturing processes as possible to prepare students for a career in metals manufacturing. **\*\*CVTC Transcribed Course\*\***  
(Prerequisite: Metals I - with a minimum grade of C or Instructor Approval)

### **CONSTRUCTION**

*0.5 credit, Semester*

*Grade level: 11-12, Prerequisite: Tech Ed I, Tech Ed II, Wood Industry I & Instructor Approval*  
(Limited to 12 students)

This course is a comprehensive program of instruction and hands on experiences designed to help students develop knowledge, skills and experiences needed to secure entry-level employment in carpentry, brick masonry, plumbing and electrical wiring. Students will be prepared for employment in related trade areas of the building industry. Skills taught consist of layout, fabrication, assembly, installation and repair of structural units, detailed instruction on the use and care of hand power tools and machinery. This course will be connected with Career Connections. This is a program that links professional training in pre-apprenticeship programs through high school carpentry courses. This curriculum was developed through the United Brotherhood of Carpenters (UBC). The students will be able to earn state recognized certifications and the school can qualify them for the CTE (Career and Technical Education) grant.

## TECHNOLOGY EDUCATION

### **SMALL ENGINES**

*Grade level: 10-12, Prerequisite: Tech Ed I & Tech Ed II*

*0.5 credit, Semester*

This course is an activity-oriented instructional course that prepares individuals for understanding the energy, power and transportation industries and occupations by utilizing exploratory experiences and laboratory activities in the troubleshooting, disassembly, and assembly of a small gasoline powered engine.

In addition, the course will start students on a path of preparation for continued secondary educational opportunities and/or career placement in the field of power technology

### **DRAFTING**

*Grade level: 10-12, Prerequisite: Tech Ed I & Tech Ed II*

*0.5 credit, Semester*

This course introduces students to the use of simple and complex graphic tools used to communicate and understand ideas and concepts found in the areas of architecture, manufacturing, engineering, science and mathematics. Topics include business meeting skills and goal setting strategies, classical representation methods such as sketching, geometric construction techniques, CAD, orthographic projection, and dimensioning.

### **INDUSTRIAL OCCUPATION**

*0.5 credit, Semester*

*Grade level: 11-12, Prerequisite: Metals I & II (with a C) then Drafting, or Woodworking I & II, plus Instructor's Approval*

This is an inquiry based learning course that is designed to provide students with an advanced learning experience in one of the following technology areas: Communication, Manufacturing, Power & Energy, and Construction.

### **BASIC AUTOMOTIVE AND HOME MAINTENANCE**

*0.5 credit, Semester*

*Grade Level: 10-12, Prerequisites: Preferred to have a driver's license and a vehicle*

Students will learn how to extend vehicle life and do minor home improvements which will make ownership more cost effective. This includes identifying helpful care and repair procedures, as they become a car and homeowner throughout their life!

### **APPLIED ENGINEERING**

*Grade Level: 11-12, Prerequisites: Technology Education I/II,*

*0.5 credit, Semester*

You are a team of engineers who have been given the challenge of designing a Rube Goldberg machine. Your machine, both in function and in theme must represent the "spirit" of Rube Goldberg. You will use the concepts of simple machines and energy transfers to build a complex machine to perform a simple task. Your team will acquire everyday items from the world around you, in other words we are going to try and be "green" for this project.

Students evaluate their own machines as well as those of their classmate teams, and of course demonstrate their machine to the class.

## TECHNOLOGY EDUCATION

### **DIY SKILLS**

*Grade Level: 10-12*

*0.5 credit, Semester*

This course will build your confidence to become a "Do-It-Yourself"

Designed for students who want to learn about technical skills that will help them in their future.

The students will learn basic valuable home and car care skills!!

We will venture in woodworking, metalworking, automotive and technology!!

### **OPERATOR ENGINEER**

*0.5 credit, Semester*

*Grade Level 11-12 Pre-requisites: Technology Education I/II, Metals I/II, Basic Auto & Home*

Operating Engineer is a course that is transcribed to the Wisconsin Operating Engineers Union and Fox Valley Technical College. This course will allow the students to complete required apprentice coursework while still in high school.

- The students will be ready to start as an operating engineer immediately after high school
- Save money on post high school tuition
- Gain workplace experience with area contractors through job shadows.

### **THS ENTERPRISE**

*1.0 credit, Year*

*Grade: 10-12 Prerequisite: Technology Education I/II, Metals I/II, Woods I/II, Teacher Selection*

THS Enterprise is course that will apply knowledge of skills, communication, business, marketing, and sales in creating a product to produce and sell. The students will learn the ins and outs of running a profitable business. The student's main goal will be to make MONEY. This course will be limited to 12 individuals who have the qualifications and who have completed the interview process. This class is for the motivated and for those who take extreme pride in their work. The grand scheme of this course is to give the students a taste of manufacturing.

### **AUTO MECHANICS**

*0.5 credit, Sem.*

*Grade: 10-12, Prerequisites: Small Engines*

This course is designed to apply the theory and practices discussed in the co-requisite lecture courses through hands-on tasks. Lab activities include, but are not limited to, demonstrations by instructor, assigned tasks utilizing tools, equipment on various mock up and live vehicles and components. Other lab activities may include familiarization of system operation, research of service information, service and repair procedures, as well as component and system diagnosis.

### **ELECTRONIC FUNDAMENTALS**

*0.5 credit, Sem.*

*Grade 10-12, Prerequisites: Tech Ed I & II*

This course will cover basic electrical theory, wiring diagrams, test equipment, diagnosis, repair, replacement of electrical components, including battery, starting, charging, and lighting systems. Upon successful completion, the student should be able to properly use wiring diagrams and test equipment to diagnose, test, and repair wiring and lighting.

<b>TECHNOLOGY EDUCATION</b>
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**ADVANCED SMALL ENGINES**

0.5 credit, Sem.

*Grade 10-12, Prerequisites: Small Engines*

Hands-on learners do well in this class. Principles of electricity, simple electrical circuits, and hydraulics involve students in skill development. ATV/outdoor machinery concepts and advanced engines principles like liquid cooling and carburetion may be covered as well as other projects of student interest. Automotive selection, care and maintenance are included as student interest and time allows.

**WELDING FOR DIESEL**

0.5 credit, Sem.

*Grade 10-12, Prerequisites: Metals I*

The purpose of this course is to help the students acquire basic welding skills in oxyacetylene welding, Shielded Metal Arc Welding (SMAW), and Gas Metal Arc Welding (GMAW). It is a hands-on, self-paced learning environment to learn basic welding skills and safe welding practices.

## WORLD LANGUAGES

### **SPANISH I**

*Grade level: 9-12, Prerequisite: None*

*1.0 credit, Year*

This is an introductory course designed to expose the student to: 1) a second language and 2) a second culture. Spanish I is a one (1) credit course that meets five days per week. Speaking, listening, reading, writing are four skills used with particular emphasis placed on the first two. Exploration of foreign celebrations, rituals, and customs is also pursued.

### **SPANISH II**

*Grade level: 10-12, Prerequisite: Spanish I*

*1.0 credit, Year*

This second level is a sequence course with a prerequisite that the student has successfully taken either Spanish I or some course of the equivalent level. **Students are encouraged to take this course immediately following Spanish I for their own benefit.**

## DISTANCE LEARNING LAB

**AVAILABLE TO: Seniors and Juniors. Note: Priority will be given to seniors.**

**WHEN AND WHERE?** These classes are taken over interactive television in the Distance Learning Lab or over the Internet. The class times do not match our bell periods and can be taken at odd times. For example, a class may start at 8:00 a.m. in the morning or run over part of our lunch hour. Students taking these classes must attend the classes during assigned periods and days. **Some classes do not meet every day.**

*\*Note: At times, these classes may meet when Thorp High School is not in session. Students must still attend their distance learning classes on those days or make alternative arrangements with the supervising teacher.*

**DISTANCE LEARNING AGREEMENT FORM:** There is little supervision from Thorp High School faculty in the Distance Learning Lab. Because of this, students taking distance learning classes will be required to sign an agreement and **will be held to a very high standard of behavior. Any student removed from the class for academic or behavioral reasons will be required to reimburse the school district for 100% of the cost of the class. Also, any student who drops the class after the first day is required to reimburse the school at least 20% of the cost of the class.**

### **Requirements for taking distance-learning classes:**

1. Must be a junior or senior in the year you take the class.
2. Must not have a record of discipline problems.
3. Must have good attendance - no unexcused absences from the beginning of school until Christmas vacation in the current school year. For special circumstances see Mr. Foster or Mrs. Hein.
4. Must have a Distance Learning Lab Agreement Form signed by the student and parent/guardian on file before he/she can attend class

**WHO TEACHES THE COURSES?** The courses offered in the Distance Learning Lab are taught by faculty members from universities or technical colleges. The courses may be more difficult than many high school courses. Students earn credits from both the post-secondary school and the high school. Please see Mr. Foster or Mrs. Hein for any questions regarding distance-learning classes.