

## TABLE OF CONTENTS

I. Graduation Requirements.....	page 3
II. University and Technical College Entrance Requirements.....	page 4
III. Advanced Standing Credit Agreements.....	page 4
IV. Course Descriptions	
A. Agriculture .....	pages 5-7
B. Art .....	page 8-9
C. Business Education .....	pages 10-11
D. Family and Consumer Education.....	page 12
E. Health .....	page 13
F. Elementary/Middle School Youth Tuto.....	page 13
G. Language Arts .....	pages 14-15
H. Mathematics .....	pages 16-18
I. Music .....	page 19
J. Physical Education .....	page 20
K. Science .....	pages 21-25
L. Social Studies .....	pages 26-27
M. Foreign Language .....	page 28
N. Technology Education.....	pages 29-33
O. Distance Learning Classes .....	pages 34-35

## 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.

## 2

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. Foreign 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 foreign 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.

PLAN AHEAD

3

### THORP HIGH SCHOOL GRADUATION REQUIREMENTS

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

Language Arts - 4 credits Health - ½ credit

Social Studies - 3 credits Phy. Ed. - 1 ½ credits

Mathematics - 3 credits Consumer Economics - ½ credit

Science - 3 credits 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 Freshman 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 8th grade or during freshman year.

CONSUMER ECONOMICS: One-half (1/2) credit in Consumer Economics is required junior or senior year.

4

#### 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, Pre Calculus 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.

Foreign 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.

If a student receives an A or B He/She may receive credit for this in this course CVTC course

Plant Science 001-100 Intro to Horticulture

Advanced Chemistry 806-134 General Chemistry

Metals I 442-313 Welding-Automotive Technician

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 \*\*\*3 Credits Articulated Credit (WI Tech Schools)

\*\*\*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.

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.

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.

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.

6

WILDLIFE—Offered 2018-2019 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 ---Offered 2017-18

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 ---Offered 2018-19 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 --- Offered 2018-19

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! FOREST MANAGEMENT --- Offered 2017-18 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.

## AGRICULTURE

7

## AGRICULTURE

HORSE SCIENCE --- Offered 2017-18 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.

LEADERSHIP Grade level: 10-12, Prerequisite: None 0.5 credit, Semester Premier leadership training, personal growth and career success! Life's most valuable skills, character building, decision making and etiquette. Many hands-on approaches to improving your life. Many group activities are used to making you an effective person. Students work in group settings to solve problems and build character skills.

## 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.

2017-18

2018-19

2020-2021

2021-2022

Aquaculture

Aquaculture

Horse Science

Horse Science

Food Science

Food Science

Powers/ Future

Powers/Future

Forest Management

Forest Management

Small Animal Vet

Small Animal Vet

Small Animal Vet

8

ART

The overall purpose of the Visual Arts Program is to aid the student in developing:

- a) a more confident sense of self,
- b) the capability to communicate ideas visually and creatively,
- c) The skill to problem solve and think critically,
- d) The power to become an independent thinker.

The Visual Arts program includes:

Basic Art 1st Semester &/or 2nd Semester

Fundamentals of Art 1st Semester &/or 2nd Semester

Principles of Design 1st Semester &/or 2nd Semester

Senior Studio 1st Semester &/or 2nd Semester

Each class can be taken either one or both semesters.

Basic Art

Grade level: 9-12 0.5 credit, Each Semester

Basic art is a beginning art course. Students are introduced to many kinds of art, along with the history of art and arts of various cultures. Drawing, painting, graphics, sculpture, and clay will be used.

## Fundamentals of Art

Grade level: 10-12

Prerequisite: 1 sem. Basic Art 0.5 credit, Each Semester

Fundamentals of Art is a foundations course where basic skills are improved upon when creating a variety of artwork using different medias. This class focuses each lesson on one of the seven fundamentals of art

## Principles of Design

Grade level: 11-12 Prerequisite: 1 sem. Basic Art 0.5 credit, Each Semester

This course for students who want to focus on advanced techniques. A study of the advance principles of design will be the focus for each lesson. A variety of art media will be used.

## Senior Studio

Grade level: 12 Prerequisite: 3 sem. of any of the above classes 0.5 credit, Semester •the senior electing to take Senior Studio must not have failed a previous art class •If a previous art class (Basic Art or Art Fundamentals) has been failed the student must retake it to get a passing grade, then the following semester will be allowed into Senior Studio. If they receive a grade lower then a C but still passing, they must propose to the art teacher what they are planning for their semester of Senior Studio and show a level of interest and commitment.

Senior Studio is an independent student-directed art course for seniors who want to increase their knowledge and skills in art. By working independently they will also improve their critical thinking abilities and creative problem-solving capabilities.

9

## Digital Photography/Yearbook

Grade Level 10-12

Do you want to have a say in how our yearbook looks, and take part in an advanced level art course as an introduction to the use of photographic and digital media as a means for two-dimensional design... sign up for this class now so you can take part in the exciting history of our school year. In this fast paced course the yearbook staff learns about and produces the school's annual yearbook. Paired with digital photography you will use digital media as a means for two-dimensional design. Adobe Photoshop techniques will be taught to help students further their design skills. Emphasis will be on producing imagery that is based on the student's own traditional and digital photographs. Students will learn digital photography, lighting, fine art and digital printing, and altered photo techniques (including image transfer and gel transfers). Portfolio development, client relationships, career options and critique methods will be taught.

ART

10

## BUSINESS EDUCATION

### ACCOUNTING I

Grade level: 10-12, Prerequisite: None 1.0 credit, Year

This full-year 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.

#### WEB DESIGN

Grade Level 10-12 Prerequisite: Computer Applications .5 Credit, Semester

Functioning as a contributing citizen in a digital world, it is important to understand how the web pages we view for reliable information are created, maintained, and interactive. In this course we will explore the concepts of web development and problem-solving skills as an independent learner with hands-on practice relevant to today's digital world. We will learn about good design of a web site and computer skills. The knowledge you gain will be through various levels of exercise and practice scenarios.

#### OPPORTUNITIES IN BUSINESS

Grade level: 9-12, Prerequisite: Computer Applications 0.5 credit, Semester

This course introduces students to the rewards and risks of owning or operating a business. Emphasis is placed on the skills needed to plan, organize, manage, and finance a business. The goal of this course is to have students understand the different forms of business ownership, explain the role of small businesses in our economy, and understand the difference between successful and failing business methods. Students will study real-world business examples to understand these differences.

#### OPPORTUNITIES IN MARKETING

Grade level: 9-12, Prerequisite: Computer Applications 0.5 credit, Semester

I'm Loving It®..... marketing that is! 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.

11

#### LESSONS IN LAW

Grade level: 9-12, 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: 9-12, 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: 9-12 0.5 credit, Semester

Students who complete this course will be highly skilled in using Microsoft Office Suite applications in an educational setting or a business environment. These programs are the most widely used today. Chapters include review of introductory concepts and use of advanced features in Word, Excel, PowerPoint, and Access. Integrated projects are used to extend learning for more advanced Microsoft Office Suite concepts. The skill learned will be very beneficial in high school, college courses, business, and general computer use.

#### BUSINESS EDUCATION

12

**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 food pyramid, safety and nutritional needs using the textbook *Guide to Good Food*, as well as how to accurately read and follow recipes.

**RELATIONSHIPS AND FAMILIES** Grade level: 9-12, Prerequisite: None 0.5 credit, Semester Families are dynamic and complex units of society. In this course students will explore many of the issues and concerns facing families today, and develop an understanding of what it takes to be a responsible family member. This class will follow the stages of life and multiple family situations we find ourselves in during those life stages, with a heavy emphasis on relationships and parenting.

**FASHION DESIGN AND CONSTRUCTION** Grade Level: 10-12, Prerequisite: Sewing, Quilts, & Crafts 0.5 credit, semester Over four million people are employed in the fashion industry, and it is an ever changing and growing industry. Students will get a taste of the industry by tracking fashion trends and companies over the decades while also working hands on with sewing equipment while constructing their own garments. Students will start with basic sewing knowledge by making accessories and work up to more complex and difficult clothing projects. Great course for anyone interest in fashion design, fashion construction, retail merchandising and fashion marketing.

**ADVANCED FOODS** Grade level: 11-12, Prerequisite: Foods and Nutrition 0.5 credit, Semester This course will include advanced food preparation techniques, careers available in the food service 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.

**INTERIOR DESIGN** Grade Level 10-12 0.5 credit, Semester If you are interested in the Home and Garden network (HGTV) then this is the class for you. This class will explore career opportunities in the housing and interior design field and other related occupations. You will be learning about design elements, housing history, architecture, space planning, and so much more. Projects will include designing your dream house, making accents, room orientation projects, and creating organization spaces.

**SEWING, QUILTING &**

CRAFTS Grade level: 9-12, Prerequisite: None 0.5 credit, Semester The fundamentals of sewing will be taught through projects chosen by individuals enrolled in the course. This course is a great asset for being able to recognize good basic construction of ready-made garments in the marketplace. The student will be able to perform a variety of skills from maintenance of garments to creating and constructing new garments. Students will be able to experiment with a variety of quilting and craft techniques, using the latest in fabrics, techniques, and colors. There will be a cost for individual projects, and it will be necessary for you to go shopping on your own for your own supplies.

#### FAMILY AND CONSUMER EDUCATION

13

#### 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.

#### YOUTH TUTOR

Grade level: 11-12, Prerequisite: None 0.25 credit, Semester

This is a one-semester course for juniors and seniors. Students in this class will be assigned to a classroom for one period a day. In the class, they will help tutor students in different subjects and serve as a personal assistant to the supervising teacher. This course is recommended for students planning on going on to school after high school for teaching or other human services fields. This is a credit course and will be graded on a pass/fail basis.

#### SCHOOL TO WORK

Grade Level: 11-12, Prerequisite: Leadership 0.50 credit, Year

Students will be able to leave campus to work at their jobs after taking the Leadership class and only if they passed all classes in the preceding semester. Jobs must be cleared with the School To Work Coordinator before final approval of signing up for this course. See Mr. Schraufnagel with any questions.

14

#### 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.

##### ELECTIVE ENGLISH

Grade level: 9, Prerequisite: None 1.0 credit, Year This course provides students with daily reading time to enjoy books of their choice based upon their personal interests. It also serves as a support for any English classes being taken at the same time to assist with writing, assignments, and preparing for tests. Finally, students also do a variety of in-class activities to enhance their skills in the areas of building their vocabularies, understanding literary terms, and

improving their reading fluency and comprehension all in a relaxed reading environment. This course is especially beneficial for freshmen, but is open to all high school students.

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.

#### WRITER'S WORKSHOP

Grade level: 11 0.5 credit, semester

Students who are preparing for college or those who enjoy writing are encouraged to take this course. Content includes a variety of essays (descriptive, expository, persuasive), creative writing, satire and parody, complete grammar review, research paper, and "Put a Face on History," an interview writing project.

#### AMERICAN LITERATURE

Grade level: 11 0.5 credit, semester

This course is intended for those who are preparing for college. The curriculum will focus on American writers, following historical periods from colonization to the present. Selections from such authors as Franklin, Thoreau, Irving, Poe, Whitman, Dickinson, Twain, and Fitzgerald will be studied. Rhetoric will be studied and employed during the speech component (Speech in the "Virginia Convention").

15

#### LANGUAGE ARTS

##### JUNIOR WRITING

Grade level: 11 0.5 credit, semester

Basic and workplace writing make up the curriculum for Junior Writing. This includes a basic grammar review, business letters, a modified research paper, and creative writing.

##### JUNIOR LITERATURE

Grade level: 11 0.5 credit, semester Basic reading and responding are the core of Junior Literature. We will focus on a variety of classic and contemporary authors. Students who plan to attend a technical college or enter the workforce will benefit from this class.

##### ISSUES IN LITERATURE

Grade level: 12 1.0 credit; Year

This course is designed for seniors who are planning to attend college or those who like reading. 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.

##### VOCATIONAL ENGLISH

Grade level: 12 1.0 credit; Year

If you are planning to go into the workforce or technical college, this is the senior course for you. In the first half of the year we will review writing mechanics (the toolbox of English!), write effective paragraphs and essays, and do a short research report using MLA format. Second semester will involve reading novels and nonfiction selections as well as interpersonal communication.

## MATHEMATICS

## 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.

## TECHNICAL MATHEMATICS

Grade level: 11-12, Prerequisite: Pre-Algebra & Applied Geometry 1.0 credit, Year

This class is designed to give students basic knowledge of "real world" money management. Through discussion and application, students will take a closer look at the responsibilities of individuals living on their own. Also incorporate technical math skills including, but not limited to: Calculate arithmetic operations involving whole numbers, fractions, and decimals. Calculate arithmetic operations involving percentages and ratios. Apply principles of geometry and trigonometry to solve program-related problems. Examine and apply systems of measurement and conversions of measurements as needed to solve applied problems.

Solve algebraic equations in an applied context.

Solve a variety of math skills, concepts, and strategies to solve applied problems.

## 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 8th 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

## GEOMETRY A&amp;B

Grade Level: 10-12, Prerequisites: Algebra 1 2.0 credits, 2 Years

This course will cover the same material as Geometry but it will go at a slower pace. Students can take just Geometry A for one credit or take both Geometry A & B for two credits. Both A & B will need to be completed to go onto Algebra II.

## ALGEBRA II

Grade level: 9-12, Prerequisites: Algebra 1; 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 Algebra II simultaneously. Please see your math instructor for more information.

## PRE-CALCULUS

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.

## 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 draw 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.

18

## MATHEMATICS

### CALCULUS

Grade level: 11-12, Prerequisite: Pre-Calculus 1.0 credit, Year

Instructor's Recommendation and "B" or better in Pre-Calculus

This is a one-year course designed for college bound students who are juniors and seniors that have completed Pre-Calculus. The course will cover functional relationships, limits, derivatives, integrals and applications of each. 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. This course may be offered in the Distance Learning Lab.

## MATH REGISTRATION GUIDELINE

Below is a chart of the suggested math courses to take and their sequences. One asterisk indicates that the course meets college requirements.

8th Grade 9th Grade 10th Grade 11th Grade 12th Grade

Math 8

Algebra 1

Geometry

Algebra 2

Pre-Calculus

Math 8

Algebra 1

Geometry/

Algebra 2

Pre-Calculus

Calculus

Math 8

Algebra 1

Geometry

Geometry

Algebra 2

Math 8

Algebra 1

Geometry

Technical Math

Done or Geometry B

Algebra

Geometry

Algebra 2

Pre-Calculus

Calculus

19

MUSIC

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.

20

#### 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. It includes a variety of activities, with the main emphasis being put on the rules of the activities, fundamentals of the sports, and basic fitness principles. The activities include team and individual sports such as team handball, soccer, speedball, volleyball, basketball, and floor hockey.

##### PHY ED 10-11

Grade Level: 10-11, Prerequisite: None 0.5 credit, Semester

We encourage students to complete their Phy Ed credits by their senior year, but students are still eligible to take Phy Ed 10-11 their senior year. There will be two sections of Phy Ed 10-11 offered; Section II and Section III. Section II is offered in the fall semester, while Section III will be offered in the spring. Each section will focus on different sports and activities of the season. Each student will only be allowed to take each section one time.

21

#### 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: 9-12, 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, project-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 your 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: 9-12, 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, project-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 your 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: 10-12, 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 develop an understanding of physical science concepts. 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. 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 your 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.

22

#### 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.

#### 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.

#### ADVANCED CHEMISTRY (THS)/806-134 GENERAL CHEMISTRY (CVTC)

Grade level: 11-12 1.0 credit THS

Prerequisite: Chemistry & Algebra II with a Grade of B or better 4.0 credits CVTC, Year

Advanced Chemistry is a one-year course designed to be a continuation and expansion of Chemistry. It will offer college-bound students a strong background in chemical analysis. 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 appeal to students with a high interest in studying and learning chemistry concepts, as well as those that wish to earn Chippewa Valley Technical College and four-year college transferrable credit while in high school. A composition-style notebook and scientific calculator are needed.

#### 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.

#### SCIENCE

23

#### 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

This course is designed to provide the student with knowledge of medical terminology.

Emphasis will be placed on analyzing, building and understanding medical terms. This is a very demanding course that will involve extensive studying and memorization.

#### LIMNOLOGY

Grade Level: 11-12 0.5 credit, Semester

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

Limnology is the study of inland waters. In this course, we will learn about the chemistry, physics, hydrology, and ecology of continental water systems. Course topics may include the physics and chemistry of continental waters; movement of light, heat, and chemicals in water; groundwater; wetlands; rivers and streams; lakes; reservoirs; watersheds; biotic communities such as algae, plankton, benthos, fishes, etc.; and human effects on inland water systems. This course offers opportunities for numerous field and laboratory investigations. Yes, we will be making weekly/bi-weekly field trips to the area creek, as well as handle/study live freshwater organisms such as newts, zebra fish, and fairy shrimp. Students will learn to make informed decisions using critical thinking and scientific problem solving. Furthermore, this course will offer a college preparatory delivery, as well as college level textbooks and publications. A composition-style notebook and scientific calculator are needed.

#### SCIENCE

24

#### OCEANOGRAPHY

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. 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 that are centered around the study of live and preserved marine organisms and their habitat. Yes, you will be able to handle live marine organisms such as sea urchins, sea anemones, brittle stars, etc. Students will learn to make informed decisions using critical thinking and scientific problem solving. Furthermore, this course will offer a college preparatory delivery, as well as college level textbooks and publications. A composition-style notebook and scientific calculator are needed.

PLANT SCIENCE Grade Level: 9-11, Highly Recommended: Ag Horizons 0.5 credit, Semester  
\*\*\*3 Credits Articulated Credit (WI Tech Schools)

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.

**ANIMAL SCIENCE** Grade level: 9-11, Highly Recommended: Ag Horizons 0.5 credit, Semester  
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.

#### **BIOTECHNOLOGY**

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

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.

#### **SCIENCE**

25

#### **SCIENCE REGISTRATION GUIDELINE**

Below is a flow chart of Science Department courses and their sequences.

26

#### **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 21st 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, Prerequisite: US History 1.0 credit, Year

Required course for sophomores. 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: 11, Prerequisites U.S.History and World History 1.0 credit, Year

Required course for juniors. 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.

27

#### CONSUMER ECONOMICS

Grade level: 11-12, Prerequisite: None 0.5 credit, Semester

Required course for juniors or seniors. This required semester course is designed to develop basic economic reasoning that will help the student operate intelligently and efficiently in everyday life after high school graduation. This hands-on course will include topics such as career planning, taxes, budgets, checking accounts, credit and insurance. Option to take class online maybe available.

#### CURRENT AMERICAN ISSUES

Grade level: 11-12, Prerequisite: None 0.5 credit, Semester

This semester long course can be taken as a junior or senior. The course explores in detail areas that impact U.S. society today. Some issues that are studied are homosexual rights, women's rights, affirmative action, immigration, urban development, gun control, school choice, flag burning, health care, assisted suicide, environmental problems, nuclear power, the national debt and other issues of the day. The course focuses on both the history and current impact of the various items listed above. Students enrolled in the course are involved in debates, computer research, viewing of current events, group discussions, group projects, individual projects and lecture. The course is ideal for juniors and seniors because they will soon be able to vote and directly impact all of the areas covered in the course. This course creates informed citizens.

#### SOCIAL STUDIES

28

#### FOREIGN LANGUAGE

##### 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. Spanish II is a one- (1) credit course, which meets five days per week, and covers more grammar usage. While learning grammar, students are involved with a pen pal. This allows them to use what they have learned, while also learning customs first hand, and increasing writing skills. Students are encouraged to take this course immediately following Spanish I for their own benefit. It is virtually impossible for a senior to take Spanish II after having had Spanish I as a freshmen.

#### SPANISH III

Grade level: 11-12, Prerequisite: Spanish II 1.0 credit, Year

This is a sequence course with a prerequisite that the student has successfully completed either Spanish II or an equivalent course. It is a one (1) credit course meeting five times per week. While the course reviews grammar learned the first two years. This course is especially designed for students who are thinking of taking college placement tests with the idea of testing out of college level Spanish courses.

#### FRENCH I

Grade Level 9-12, 1.0 credit, Year

French I presents the basics of the French language as spoken in Europe. Students learn greetings, verb conjugations, basic survival vocabulary, pronunciation rules, grammatical structures, and cultural highlights. They develop basic reading and conversational abilities, learning to understand and practically apply the facts rather than simply memorizing them. The instructor presents material primarily in English, using songs, readings on culture, video supplements etc.

#### FRENCH II

Grade Level 10-12, Prerequisite: French I 1.0 credit, Year

This course, a continuation of FRENCH 1, focuses on the fundamental elements of the French language within a cultural context. Emphasis is on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness.

29

#### 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. There is a \$10.00 per student, per semester lab fee that includes safety glasses and covers the cost of consumable products and materials.

#### 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, The Basics of programming robots to perform simple tasks. Student projects will include CO2 racecars 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 0.5credit, 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: balsa house construction, reading blueprints, 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: Tech Ed I, Tech Ed II & Woods I 0.5credit, 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.

30

#### TECHNOLOGY EDUCATION

##### METALS I

Grade Level: 10-12, Prerequisite: Tech. Ed. I & Tech. Ed. II 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 in the welding lab. 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\*\***

##### METALS II --MATERIALS AND PROCESSES

Grade level: 10-12, Prerequisite: Tech Ed I and II, Metals I 0.5 credit, Semester This course introduces skills used in precision machining and fabrication that are employed throughout the engineering and manufacturing industries. Precision measuring will be introduced and an emphasis will be placed on the safe operation and setup of the lathe and milling machines. A deeper understanding of the processes of welding and fabrication will be introduced.

(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

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.

MECHANICAL ENGINEERING 0.5 credit, Semester Grade Level: 10-12, Prerequisites: Tech Ed I & Tech Ed II, and Metals I & II Do you have what it takes to create a vehicle that can produce over 300 miles per gallon? No other class will prepare you for the teamwork, design, and hard work associated with an engineering occupation. What the students will learn is how to apply the analytical knowledge to a practical design.

#### 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.

31

#### TECHNOLOGY EDUCATION

##### 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 An independent course this course 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 your 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.

32

#### AUTO BODY REPAIR 0.5 credit, Semester

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

#### 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!!

#### BASIC COMPUTER PROGRAMMING

Grade Level:9-12 0.5 credit, Semester Collaborate to create mobile apps that make a difference in people’s lives. Solve real people’s needs and wants with your creativity. With a gentle introduction to programming, you will learn how to make computers work together to put your designs into practice. People who code are the magicians of the future, useful in any career. How will computing and connectivity give you superpowers?

#### COMPUTER HARDWARE AND SOFTWARE MAINTENANCE

Grade Level: 9-12 0.5 credit, Semester

This course is an exploratory, first course in computer hardware systems and maintenance designed primarily for students interested in computer science. However, it also meets the need of students in other fields, as a course that provides hands-on training in the installation, configuration, optimization and upgrading of computer systems. As a practical course, the focus is to impart useful skills on the students in order to enhance ability to install, troubleshoot, repair and maintain computer systems. Topics to be covered include introduction to computer systems, computer system parts, maintenance techniques, approaches and tools; diagnostic techniques; system assembly and installation; troubleshooting and repair of computer systems and accessories; portable computers, etc.

#### TECHNOLOGY EDUCATION

33

Introduction to Computer Technician (ITCT) 0.5 credit, Semester Grade Level: 10-12

Prerequisites: Computer Hardware and Software Maintenance

This course is designed for juniors and seniors and has a maximum class size of 10 students. Students wishing to take this course will be required to submit a written application and receive the endorsement of three teachers. The Introduction to Computer Technician course is a hands on study of technology integration in an educational context. Students will be required to assess problem sets throughout the class period and define the best approach to addressing or solving the problem. In addition to solving problems for students and teachers, students will be required

to complete and maintain several running projects that address problems or solutions in educational technology integration. The course also provides students with the opportunity to pursue a project, which positively impacts their school or community. Students may collaborate with outside businesses and organizations as they develop and implement their projects.

#### TECHNOLOGY EDUCATION

34

#### 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. Ceranski 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. Hass or Mrs. Hein for any questions regarding distance-learning classes.

35

#### DISTANCE LEARNING LAB

Composition II (ENG 102)

Prerequisite(s): A grade of C or better in ENG 101 or exemption based on placement test score. Requires completion of online special student application and submission of transcripts.

Description: A composition course focusing on researched academic writing that presents information, ideas, and arguments. Emphasis will be on the writing process, critical thinking, and critical reading.

Credits: UW System Credit (3.0).

Length: 1 Semester (1st Semester).

Host: UW-Marshfield/Wood County

Literary Studies, Introduction to (ENG 250)

Prerequisite(s): Exception from 098 based on placement test score or ENG 098 or consent of instructor. Requires completion of online special student application and submission of transcripts.

Description: An introduction to the discipline of literary studies through its fundamental approaches to reading, interpreting, and writing about a variety of texts, ranging from the classic to the contemporary with the goal of understanding, appreciating, and enjoying literature. Not open to students with credit in ENG 251, ENG 253 or ENG 255.

Credits: UW System Credit (3.0)

Length: 1 Semester (2nd Semester)

Host: UW-Marshfield/Wood County

Introduction to Psychology (Blended)

Prerequisite(s): None

Description: This introductory course in psychology is 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, motivation, emotions, personality, deviance and pathology, 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.

Credits: NTC Credit (3.0)

Length: 1 Semester

Introduction to Sociology (Blended)

Prerequisite(s): None

Description: Introduces students to the basic concepts of sociology: culture, socialization, social stratification, multiculturalism, 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.

Credits: NTC Credit (3.0)

Length: 1 Semester

If you are looking for a specific class, please see Mrs. Hein for a complete list of what could be offered via Distance Learning.