

# Prairie du Chien High School

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## *2017-2018 Course Guide*

**Andy Banasik, Principal (608) 326-3702**

**Karen Sjoberg, District ACP Coordinator (608) 326-3703**

**Scott J. Gordon, Dean of Students (608) 326-3886**

**800 East Crawford Street**

**Prairie du Chien WI 53821**

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## **COURSE REGISTRATION PROCESS**

This course guide is for students and parents/guardians. Each year students should seriously consider their educational and career goals and develop a program of study to work toward them. In planning for the school year, students and parents/guardians should consider:

- Do the courses meet graduation requirements?
- Do the courses meet the student's need for anticipated post high school educational needs or career choices?
- Do the courses match the student's ability and expand or develop their interests?

This course guide will help students and their parent's guardians plan a high school program based on these selected goals. Parents/guardians are requested to be actively involved with their children in selecting an appropriate program of courses for the coming year by:

- Reading and discussing this course guide with their child.
- Reviewing the progress reports and student report cards.
- Discussing appropriate course selection with the student's current teachers and counselor.

After entering a course request, students will be called in to meet with a counselor in an individual conference to review credits, choices of subjects, and complete final schedule.

### **DROP/WITHDRAW GUIDELINES – PDC HIGH SCHOOL**

Schedule changes for courses taken at Prairie du Chien High School should be done prior to the beginning of a semester in order to minimize disruption. Once the semester has started, students may request to drop/withdraw from a course through the administration only. Students may not drop a course if it results in less than a full load. Students may not drop a course after the second day of the beginning of class without an administrator/parent meeting. Students who drop a course(s) after the deadline may receive an F. Students may only drop a course for a course. Students who take a semester course may not drop at the end of term.

### **DROP/WITHDRAW GUIDELINES – MIGHTY RIVER VIRTUAL ACADEMY**

Students taking a course(s) through Might River Virtual Academy may elect to drop/withdraw from that course if it is within two weeks from the course start date. If students drop/withdraw from a course(s) within the two week grace period, the course(s) will not show up on their official high school transcript and not be included in the cumulative GPA. Students may request to drop/withdraw from a course though the Mighty River administration only. Once the first two weeks are complete, the grade that the student earned in the course will appear on his/her official high school transcript and be included in the cumulative GPA.



## CREDITS

Prairie du Chien High School measures school achievements by credit accumulated during the years in school. Listed below will be how credits are earned:

- |              |                      |                                   |
|--------------|----------------------|-----------------------------------|
| • 1 Credit   | Semester Block Class | Meets 90 min daily for two terms  |
| • 0.5 Credit | Semester Skinny      | Meets 45 min daily for two terms  |
| • 1 Credit   | Year-long Skinny     | Meets 45 min daily for four terms |

## CLASS RANKING

Prairie du Chien High School will figure class rank solely on GPA with AP Enhancer for each term accumulated until a student's last term grade of his/her senior year. All courses taught at Prairie du Chien High School and Mighty River Virtual Academy will count toward the GPA with AP Enhancer. SENIORS ONLY: For scholarships, Valedictorian, and Salutatorian purposes, the ranking will be calculated after the 7<sup>th</sup> semester.

### GPA AP Enhancer

- AP Test Score of 2; Class GPA x 1.2
- AP Test Score of 3; Class GPA x 1.3
- AP Test Score of 4; Class GPA x 1.4
- AP Test Score of 5; Class GPA x 1.5

GPA Enhancer based on 0.5 credit/semester	Grade of A		Grade of B		Grade of C	
	sem 1	sem 2	sem 1	sem 2	sem 1	sem 2
AP Test Score of 2	2.4	2.4	1.8	1.8	1.2	1.2
AP Test Score of 3	2.6	2.6	1.95	1.95	1.3	1.3
AP Test Score of 4	2.8	2.8	2.1	2.1	1.4	1.4
AP Test Score of 5	3.0	3.0	2.25	2.25	1.5	1.5

*For example: Student scores a 3 on an AP exam with a semester 1 grade of an A (2.6 points) and a semester 2 grade of a B (1.95 points). The total GPA Enhancer points added will equal 4.55 (2.6 + 1.95 = 4.55).*

## GRADING SCALE

Letter Grade	Range	
	High	Low
A+	100.00	96.50
A	96.49	94.50
A-	94.49	92.50
B+	92.49	89.50
B	89.49	85.50
B-	85.49	84.50
C+	84.49	79.50
C	79.49	74.50
C-	74.49	69.50
D+	69.49	66.50
D	66.49	63.50
D-	63.49	59.50
F	59.49	0.00

## HONOR ROLL

High Honors will consist of students who earn a 3.5 GPA or higher for the term. Honors will consist of students who earn a 3.0 to 3.499 GPA. Students must carry 3 to 3 ½ courses. All credited courses taken at Prairie du Chien High School and Mighty River Virtual Academy will count toward the semester GPA.

## ACADEMIC LETTERS

The Student Council recognizes academic success by awarding letters and pins. Ten (10) points are awarded to students earning High Honor Roll status. Five (5) points are awarded to students earning Honor Roll status. The points will be recorded on a nine week basis and totaled at that time. The academic letter will then be awarded after 90 points are accumulated and an academic pin will be awarded at 120 points.

## COURSE DEFINITIONS

### **ADVANCED PLACEMENT COURSE**

The Advanced Placement Program (AP) is a cooperative educational endeavor between high schools, colleges, and universities. It allows students to enroll in college-level courses while in high school, and gives them the opportunity to show mastery by taking an AP exam.

AP exams are given during the month of May. According to board policy, students enrolled in an AP course will have a choice to take the end of course AP exam. The district will pay the cost of the AP exam. Every student who elects to take the AP exam will take the same exam at the same time. Each exam consists of two sections. The first section is made up of multiple choice questions. The other section consists of free-response essay questions in various forms: essays, audio taped responses, analysis of historical documents, extended problem solving, etc. Students will receive their grade report in July.

The AP grading scale is as follows:

5	Extremely well qualified
4	Well qualified
3	Qualified
2	Possibly Qualified
1	No recommendation

Most colleges and universities accept AP scores of 3 or above. Students will receive credit, advanced placement or both at most colleges and universities. The amount of credit received varies on the college, the AP score, and the subject. Students are also able to move into a higher level class at college as a freshman. This not only translates into time saved, but also financial savings for each credit earned while in high school.

AP courses offered at Prairie du Chien High School

- [AP Art History](#)
- [AP Calculus AB](#)
- [AP Calculus BC](#)
- [AP Chemistry](#)
- [AP Chinese Language and Culture](#)
- [AP Computer Science Principles](#)
- [AP English Language](#)
- [AP English Literature](#)
- [AP Environmental Science](#)
- [AP Human Geography](#)
- [AP Macroeconomics](#)
- [AP Music Theory](#)
- [AP Psychology](#)
- [AP Spanish Language and Culture](#)
- [AP Statistics](#)
- [AP Studio Art](#)
- [AP US Government & Politics](#)
- [AP US History](#)

## **ELECTIVE COURSE**

An elective course is a course which a student may choose to take to earn toward the diploma.

### **General Elective**

A general elective course is any course which does not fall into the total of a required graduation requirement

### **Math Electives**

- [Accounting I](#)
- [Advanced Accounting](#)
- [Applied Math](#)
- [Building Trades](#)
- [Construction Technology](#)
- [Industrial Enterprise](#)
- [Personal Finance I](#)
- [Personal Finance II](#)
- (PLTW) [AP Computer Science Principles](#)
- (PLTW) [Civil Engineering and Architecture](#)
- (PLTW) [Into to Engineering Design](#)
- (PLTW) [Principles of Engineering](#)
- [Woods I](#)
- [Woods II](#)

### **Science Electives**

- [Anatomy & Physiology](#)
- [Animal Science – Small](#)
- [Animal Science – Large](#)
- [BioTechnology](#)
- [Food Science](#)
- [Natural Resources](#)
- [Physics](#)
- [Plant Science](#)
- (PLTW) [Biomedical Interventions](#)
- (PLTW) [Human Body Systems](#)
- (PLTW) [Medical Interventions](#)
- (PLTW) [Principles of Biomedical Sciences](#)
- [Wildlife and Conservation Management](#)

## **PREQUISITE COURSE**

A prerequisite is a course to condition which a student must complete or meet before the course may be taken.

## **REQUIRED COURSE**

A required course is a course which a student must successfully complete in order to earn a Prairie du Chien High School diploma.

## **SOUTHWEST RURAL TELECOMMUNICATIONS NETWORK CONSORTIUM (SRTNC) COURSE**

SRTNC (pronounced certain-see) is a 25-member distance learning network that utilizes the latest in fiber optic technology to provide an educational tool for students and community members of Southwest Wisconsin. Its goal is to expand and enhance educational opportunities for all students and citizens with the member school districts.

## TRANSCRIPTED CREDIT

Transcripted credit courses have an agreement between Prairie du Chien High School and area colleges that if a student successfully passes a specific course, he/she will receive college credits for the specific course at the issuing institution. The credit may be transferred to another post-secondary institution.

Transcripted courses offered at Prairie du Chien High School

<b>AGRICULTURE</b>		
<i>High School Course</i>	<i>Southwest Tech Course</i>	<i>SWTC Credits</i>
Plant Science	Plant Science 10-006-160	3
<b>BUSINESS EDUCATION</b>		
<i>High School Course</i>	<i>Southwest Tech Course</i>	<i>SWTC Credits</i>
Accounting	Accounting I 10-101-111	4
Computer Applications	Computer Applications 10-105-110	1
MS Excel MOS	Beginning Microsoft Excel 10-103-106	1
MS Access MOS	Beginning Microsoft Access 10-103-111	1
Marketing Principles	Marketing Principles 10-104-130	3
Personal Finance I	Personal Finance 10-102-151	1
Introduction to Business	Introduction to Business 10-102-105	3
<b>ENGLISH</b>		
<i>High School Course</i>	<i>Southwest Tech Course</i>	<i>SWTC Credits</i>
AP English Language & Composition	Written Communication 10-801-195	3
Oral/Interpersonal Communication	Oral/Interpersonal Communication 10-801-196	3
Speech	Speech 10-801-198	3
Written Communication	Written Communication 10-801-195	3
<b>MATHEMATICS</b>		
<i>High School Course</i>	<i>Southwest Tech Course</i>	<i>SWTC Credits</i>
Algebra 2	College Technical Math 1A 10-804-113	3
Pre-calculus	College Technical Math 1B 10-804-114	2
Applied Mathematics	Applied Mathematics 31-804-305	2
AP Statistics	Introductory Statistics 10-804-189	3
<b>SCIENCE</b>		
<i>High School Course</i>	<i>Southwest Tech Course</i>	<i>SWTC Credits</i>
Anatomy & Physiology	General Anatomy & Physiology 10-806-177	4
Physics	General Physics 1 10-806-154	4
<b>SOCIAL SCIENCE</b>		
<i>High School Course</i>	<i>Southwest Tech Course</i>	<i>SWTC Credits</i>
AP Macroeconomics	Economics 10-809-195	3
Human Psychology	Introduction to Psychology 10-809-198	3
AP Psychology	Introduction to Psychology 10-809-198	3
Sociology	Introduction to Sociology 10-809-196	3

## **ALTERNATIVE EDUCATION**

### **GENERAL EDUCATION DIPLOMA OPTION #2 (GEDO2)**

The GEDO #2 Program allows the Prairie du Chien School District to use the GED test to measure proficiency in place of high school credit for students enrolled in an alternative education program. Students who pass the GED test and complete the other requirements for graduation are entitled to the traditional high school diploma.

- Students must be at least 17 years of age
- Students must be at least one year behind their 9<sup>th</sup> grade class in credits earned
- Students should be able to demonstrate the ability to read at or above the 9<sup>th</sup> grade level
- A formal meeting with school personnel will be held prior to the student entering the program

*Please refer to the Prairie du Chien High School GED Option #2 Handbook for further information.*

### **YOUTH APPRENTICESHIP**

Youth Apprenticeship is a one/two year program beginning in the 11<sup>th</sup> or 12<sup>th</sup> grade, offering students guided learning through work experience within an industry. The student will acquire the skills necessary for the jobs of tomorrow and a linkage between secondary and post-secondary education. The apprentices will attend regular classes in their high school, in addition to career-related classes through SWTC. Students need a minimum of 900 worksite hours for completion of the two year program or 450 for the one year program. These hours may be obtained during the summer along with during the school year. If students work only during the school year, they will need to work an average of 10 hours/week during their junior year and 15 hours/week during their senior year. These hours may or may not be during the school day; therefore, by working during the summer the student is able to participate in school related activities.

Program Eligibility – Student must:

- Be on track towards fulfilling the graduation requirements of his/her home school district
- Display a genuine interest in the field as a possible career
- Do a job shadow in his/her selected industry
- Submit a completed application (obtained from the guidance office of the School to Work Coordinator)
- Display good high school attendance.

In addition, the student must also be willing to:

- Follow the policies and procedures of the institutions involved (i.e. high school, technical college, CESA #3 and employer)
- Provide transportation to the apprenticeship courses and worksite location
- For the Health YA students only: successfully complete the 120 hour CNA class and participate in the Health YA program for 12 months or will be liable for CNA expenses.

For further information regarding the Youth Apprenticeship Program, contact the Guidance Office.

## YOUTH OPTIONS

Wisconsin's Youth Options program allows public high school juniors and seniors who meet certain requirements to take post-secondary courses at a UW institution, a Wisconsin technical college, one of the state's participating private nonprofit institutions of higher education, or tribally-controlled colleges. Approved courses count toward high school graduation and college credit.

The program opens the door to greater learning opportunities for motivated students considering a technical career, wishing to begin college early, or preparing themselves to enter the workforce immediately after high school graduation.

Under Youth Options, a student does not pay for a college course if the school board determines the course qualifies for high school credit and is not comparable to a course already offered in the school district. If approved by the school board, the student can receive both high school and college credit upon successful completion of the course. A student who successfully completes their high school graduation requirements earns a high school diploma regardless of whether the requirements were met while attending a high school or college.

Students interested in Youth Options will notify the Guidance Office of their intention to participate in the program. Students are required to complete a Form PI 8700 (signed by both the student and their parent/guardian), and turn the completed form into the Guidance Office by January 31 for the fall semester and by September 6 for the spring semester. The form is required to be presented to the Prairie du Chien School Board for review and approval/disapproval. The Guidance Office will then submit the form to the institution of higher education by March 1 for the fall semester and by October 1 for the spring semester.

The participating student must be enrolled in a public school and be in the 11th or 12th grade. Students must apply to an institution of higher education during the school semester prior to enrollment in the institution of higher education. They must meet admission standards and application deadlines established by the institution of higher education in this program. Students may be admitted only if space is available. Admission under this program should not be construed as admission to the institution of higher education granted after high school graduation. In the event that space is not available, the student is encouraged to list alternate course selections on Form PI 8700 so that the Prairie du Chien School Board is able to determine the acceptability of the alternative course(s). Courses taken outside the school will count for credit and be included in the cumulative GPA.

For further information about the Youth Options program, please contact the Guidance Office.

## **SPECIAL EDUCATION SERVICES**

The Prairie du Chien School District receives referrals on all students with suspected impairments or disabilities from all persons who have a reasonable cause to believe that such a need or condition exists. Prior to making a referral, the person who submits a referral must inform the parents/guardians of the intent to make the referral. The referral must be in writing and can be obtained from the Child Study Department. It must include the reason for the referral, the documentation informing the parents/guardians, and measurable pre-referral interventions that were attempted in the general education environment to meet a student's needs.

When a student is suspected of being a student with a disability (CWD), the Special Education designee shall appoint an evaluation IEP Team and consent for evaluation will be acquired before assessment begins.



## **GRADUATION REQUIREMENTS**

All students graduating from Prairie du Chien High School must complete the requirements listed under their class planning guide section. In addition to the course requirements below, all students are required to successfully complete the ACT test unless dismissed by administration. Students not completing the requirements of the school board will not be able to be involved in the graduation ceremonies.

### **EARLY GRADUATION**

Any student who wishes to apply for early graduation must complete the following steps:

- Pass all courses he/she takes during their senior year.
- Show proof of being enrolled in a post-secondary school or provide proof of employment.
- Letter from the parents/guardians stating that the student has permission for early graduation.
- Apply in writing to the school counselor on or before October 31<sup>st</sup>.
- Have 90% attendance for his/her senior year.

## GRADUATION REQUIREMENTS COURSE OFFERINGS

### ENGLISH GRADUATION REQUIREMENTS

English 9	1.00
English 10	1.00
English 11	1.00
*AP English Language	1.00
English 12	1.00
**AP English Literature	1.00
<i>*Alternate credit for English 11</i>	
<i>**Alternate credit for English 12</i>	

### MATH GRADUATION REQUIREMENTS

Algebra I	1.00
Geometry	1.00
Algebra II	1.00
Global/Other Math Electives	2.00

### SCIENCE GRADUATION REQUIREMENTS

Biology I	1.00
Chemistry I	1.00
(Core) Global Science	1.00
Global/Other Science Electives	2.00

### SOCIAL STUDIES GRADUATION REQUIREMENTS

AP Human Geography	1.00
AP US Government & Politics	1.00
AP US History	1.00
AP Psychology	1.00
WI Civics Exam	

### PHYSICAL EDUCATION/HEALTH GRADUATION REQUIREMENTS

*Physical Education	2.00
Health	0.50
<i>*0.5 credit waived for 8 sports seasons</i>	

### GLOBAL/OTHER ELECTIVES GRADUATION REQUIREMENTS

Global/Other Electives	8.50
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**TOTAL REQUIRED CREDITS 28.00**

## GLOBAL/OTHER ELECTIVES (by Department)

### **GLOBAL ELECTIVES – AGRICULTURE DEPARTMENT**

Animal Science – Large	0.50
Animal Science – Small	0.50
BioTechnology	0.50
Forestry	0.50
Landscaping	0.50
Mechanics	0.50
Natural Resources	0.50
Plant Science	0.50
Wildlife and Conservation Management	1.00

### **GLOBAL ELECTIVES – ART DEPARTMENT**

Art I	1.00
Art II	1.00
Art III	1.00
Art IV	1.00
Ceramics I	0.50
Ceramics II	0.50
AP Art History	1.00
AP Studio Art	1.00

### **GLOBAL ELECTIVES – BUSINESS DEPARTMENT**

Accounting I	1.00
Advanced Accounting	1.00
AP Macroeconomics	1.00
Application Creators	0.50

Business and Personal Law	0.50
Computer Applications	0.50
Digital Media	0.50
Emerging Technologies	0.50
Gaming	0.50
Introduction to Business	0.50
Marketing Principles	0.50
MS Access/Word	0.50
MS Excel	0.50
Personal Finance I	0.50
Personal Finance II	0.50
Sports Marketing	0.50

### **GLOBAL ELECTIVES – ENGLISH DEPARTMENT**

Creative Writing	0.50
Oral/Interpersonal Communication	0.50
Speech	0.50
Speed Reading	0.50
Written Communication	0.50
Yearbook	0.50

### **GLOBAL ELECTIVES – FAMILY AND CONSUMER SCIENCE DEPARTMENT**

Food Science	0.50
Food Service	1.00
Independent Living	0.50

Intro to Health Occupations	0.50
Textile Technology	0.50

**GLOBAL ELECTIVES – FOREIGN LANGUAGE DEPARTMENT**

Chinese I	1.00
Chinese II	1.00
Chinese III	1.00
Chinese IV	1.00
AP Chinese	1.00
Spanish I	1.00
Spanish II	1.00
Spanish III	1.00
Spanish IV	1.00
AP Spanish	1.00

**GLOBAL ELECTIVES – GUIDANCE DEPARTMENT**

BAK Tutor	0.50
BV Tutor	0.50
Mentorship	0.50
Work Experience	0.50

**GLOBAL ELECTIVES – MATH DEPARTMENT**

AP Statistics	1.00
Applied Math	0.50
Bridge to Algebra A	1.00
Bridge to Algebra B	1.00
Calculus	1.00
Pre-Calculus	1.00
Statistics	0.50
AP Calculus AB	1.00
AP Calculus BC	1.00

**OTHER ELECTIVES – MATH (CTE)**

Accounting I	1.00
Advanced Accounting	1.00
Building Trades	1.00
Civil Engineering and Architecture	1.00
Construction Technology	0.50
Industrial Enterprise	1.00
Introduction to Engineering	1.00
Personal Finance I	0.50
Personal Finance II	0.50
Principles of Engineering	1.00
Woods I	0.50
Woods II	0.50
AP Computer Science Principles	1.00

**GLOBAL ELECTIVES – MUSIC DEPARTMENT**

Band	1.00
Concert Choir	1.00
Drama	0.50
Electronic Music	0.50

Jazz Band	0.50
Jazz Survey	0.50
Music History	0.50
Stagecraft	0.50
Vocal Jazz Ensemble	1.00
AP Music Theory	1.00

**GLOBAL ELECTIVES – PHYSICAL EDUCATION DEPARTMENT**

Athletic Training and Management	1.00
Core Performance	0.50
Lifetime Sports	0.50

**GLOBAL ELECTIVES – SCIENCE DEPARTMENT**

Anatomy & Physiology	1.00
Biology II	1.00
Biomedical Interventions	1.00
Chemistry II	1.00
Fundamentals of Chemistry	1.00
Human Body Systems	1.00
Medical Interventions	1.00
Physics	1.00
Principles of Biomedical Science	1.00
AP Chemistry	1.00
AP Environmental Science	1.00

**OTHER ELECTIVES – SCIENCE (CTE)**

Animal Science – Large	0.50
Animal Science – Small	0.50
BioTechnology	0.50
Food Science	0.50
Natural Resources	0.50
Plant Science	0.50
Wildlife and Conservation Management	1.00

**GLOBAL ELECTIVES – SOCIAL STUDIES DEPARTMENT**

Civics	0.50
Human Psychology	0.50
Sociology	0.50

**GLOBAL ELECTIVES – TECHNOLOGY EDUCATION DEPARTMENT**

AP Computer Science Principles	1.00
Building Trades	1.00
Construction Technology	0.50
Civil Engineering and Architecture	1.00
Industrial Enterprise	1.00
Introduction to Engineering Design	1.00
Principles of Engineering	1.00
Welding I	0.50
Welding II	0.50
Woods I	0.50
Woods II	0.50

## PLANNING GUIDES

As you prepare to register for courses, now would be an excellent time to review past and future goals. How do classes you have taken or will take next year “fit” your career plans? What courses do I need to get into a University/College, Technical/Vocational? What are my interest and abilities? What classes are required to graduate from high school and am I on track? What if I don’t know what I would like to do in the future?

**\*Remember, this is a minimal university planning guide. Please reference the university admission for exact college entrance requirements.**

If you need further assistance, please feel free to contact the Guidance Office.

Wisconsin and Minnesota University Planning Guide	
Subject	ACT Score: 20-29, Rank in the top 30%-50% of class, and successful completion of the following subjects:
English	4.0 Credits
Social Studies	3.0 Credits
Science	3.0 Credits
Math	3.0 Credits
World Language	2.0 Credits of a single World Language (strongly recommended at most)
Liberal Arts	1.0 Credit
Electives	4.0 Credits
Total Credits	20.0 Credits

Technical and Vocational Planning Guide	
	Compass/TABE/Accuplacer Test

**FRESHMAN PLANNING GUIDE**

**CLASS OF 2021**

Coursework Area	
Required Courses	Credits
<b>ENGLISH</b>	<b>4</b>
English 9	1
English 10	1
English 11	1
English 12	1
<b>MATHEMATICS</b>	<b>5</b>
Mathematics (Core)	3
Math Electives	2
<b>SCIENCE</b>	<b>5</b>
Biology	1
Chemistry	1
Science Electives	3
<b>SOCIAL STUDIES</b>	<b>4</b>
AP Human Geography	1
AP US Government	1
AP US History or AP Psychology	1
WI Civics Exam	
<b>PHYSICAL EDUCATION</b>	<b>2</b>
<b>HEALTH</b>	<b>0.5</b>
<b>GENERAL ELECTIVES</b>	<b>8.5</b>
<b>TOTAL</b>	<b>28</b>

Grade 9	
English 9	
Algebra I	
Geometry	
Biology I	
AP Human Geography	
Physical Education	
Elective(s)	
<i>The ACT Aspire test is required for all freshmen.</i>	
Grade 10	
English 10	
Algebra II	
Pre-Calculus	
Chemistry I	
AP US Government	
Physical Education	
Health	
Elective(s)	
<i>The PSAT is optional for all sophomores.</i>	
Grade 11	
AP English Language	English 11
Calculus	Pre-Calculus
Statistics	Calculus
AP Env Science or Science Elective(s)	
AP US History or AP Psychology	
WI Civics Exam	
Physical Education	
Elective(s)	
<i>The ACT and ACT WorkKeys are required, and the PSAT is optional for all juniors.</i>	
Grade 12	
AP English Literature	English 12
Written Comm/Speech/Oral-Inter Comm	
AP Calculus, AP Statistics, or Math Elective(s)	
AP Env Science or Science Elective(s)	
AP US History or AP Psychology	
Physical Education	
Elective(s)	

**SOPHOMORE PLANNING GUIDE**

**CLASS OF 2020**

Coursework Area	
Required Courses	Credits
<b>ENGLISH</b>	<b>4</b>
English 9	1
English 10	1
English 11	1
English 12	1
<b>MATHEMATICS</b>	<b>5</b>
Mathematics (Core)	3
Math Electives	2
<b>SCIENCE</b>	<b>5</b>
Biology	1
Chemistry	1
Science Electives	3
<b>SOCIAL STUDIES</b>	<b>4</b>
AP Human Geography	1
AP US Government	1
AP US History or AP Psychology	1
WI Civics Exam	
<b>PHYSICAL EDUCATION</b>	<b>2</b>
<b>HEALTH</b>	<b>0.5</b>
<b>GENERAL ELECTIVES</b>	<b>8.5</b>
<b>TOTAL</b>	<b>28</b>

Grade 9	
English 9	
Algebra I	
Geometry	
Biology I	
AP Human Geography	
Physical Education	
Elective(s)	
<i>The ACT Aspire test is required for all freshmen.</i>	
Grade 10	
English 10	
Algebra II	
Pre-Calculus	
Chemistry I	
AP US Government	
Physical Education	
Health	
Elective(s)	
<i>The PSAT is optional for all sophomores.</i>	
Grade 11	
AP English Language	English 11
Calculus	Pre-Calculus
Statistics	Calculus
AP Env Science or Science Elective(s)	
AP US History or AP Psychology	
WI Civics Exam	
Physical Education	
Elective(s)	
<i>The ACT and ACT WorkKeys are required, and the PSAT is optional for all juniors.</i>	
Grade 12	
AP English Literature	English 12
Written Comm/Speech/Oral-Inter Comm	
AP Calculus, AP Statistics, or Math Elective(s)	
AP Env Science or Science Elective(s)	
AP US History or AP Psychology	
Physical Education	
Elective(s)	

**JUNIOR PLANNING GUIDE**

**CLASS OF 2019**

Coursework Area	
Required Courses	Credits
<b>ENGLISH</b>	<b>4</b>
English 9	1
English 10	1
English 11	1
English 12	1
<b>MATHEMATICS</b>	<b>5</b>
Mathematics (Core)	3
Math Electives	2
<b>SCIENCE</b>	<b>5</b>
Biology	1
Chemistry	1
Science Electives	3
<b>SOCIAL STUDIES</b>	<b>4</b>
AP Human Geography	1
AP US Government	1
AP US History or AP Psychology	1
WI Civics Exam	
<b>PHYSICAL EDUCATION</b>	<b>2</b>
<b>HEALTH</b>	<b>0.5</b>
<b>GENERAL ELECTIVES</b>	<b>8.5</b>
<b>TOTAL</b>	<b>28</b>

Grade 9	
English 9	
Integrated Math I	
Integrated Math II	
Biology I	
AP Human Geography	
Physical Education	
Elective(s)	
<i>The ACT Aspire test is required for all freshmen.</i>	
Grade 10	
English 10	
Integrated Math III or Algebra II	
Pre-Calculus	
Chemistry I	
AP US Government	
Physical Education	
Health	
Elective(s)	
<i>The PSAT is optional for all sophomores.</i>	
Grade 11	
AP English Language	English 11
Calculus	Pre-Calculus
Statistics	Calculus
AP Env Science or Science Elective(s)	
AP US History or AP Psychology	
WI Civics Exam	
Physical Education	
Elective(s)	
<i>The ACT and ACT WorkKeys are required, and the PSAT is optional for all juniors.</i>	
Grade 12	
AP English Literature	English 12
Written Comm/Speech/Oral-Inter Comm	
AP Calculus, AP Statistics, or Math Elective(s)	
AP Env Science or Science Elective(s)	
AP US History or AP Psychology	
Physical Education	
Elective(s)	

**SENIOR PLANNING GUIDE**

**CLASS OF 2018**

Coursework Area	
Required Courses	Credits
<b>ENGLISH</b>	<b>4</b>
English 9	1
English 10	1
English 11	1
English 12	1
<b>MATHEMATICS</b>	<b>5</b>
Mathematics (Core)	3
Math Electives	2
<b>SCIENCE</b>	<b>5</b>
Biology	1
Chemistry	1
Science Electives	3
<b>SOCIAL STUDIES</b>	<b>4</b>
AP Human Geography	1
AP US Government	1
AP US History or AP Psychology	1
WI Civics Exam	
<b>PHYSICAL EDUCATION</b>	<b>2</b>
<b>HEALTH</b>	<b>0.5</b>
<b>GENERAL ELECTIVES</b>	<b>8.5</b>
<b>TOTAL</b>	<b>28</b>

Grade 9	
English 9	
Integrated Math I	
Integrated Math II	
Biology I	
AP Human Geography	
Physical Education	
Elective(s)	
<i>The ACT Aspire test is required for all freshmen.</i>	
Grade 10	
English 10	
Integrated Math III or Algebra II	
Pre-Calculus	
Chemistry I	
AP US Government	
Physical Education	
Health	
Elective(s)	
<i>The PSAT is optional for all sophomores.</i>	
Grade 11	
AP English Language	English 11
Calculus	Pre-Calculus
Statistics	Calculus
AP Env Science or Science Elective(s)	
AP US History or AP Psychology	
WI Civics Exam	
Physical Education	
Elective(s)	
<i>The ACT and ACT WorkKeys are required, and the PSAT is optional for all juniors.</i>	
Grade 12	
AP English Literature	English 12
Written Comm/Speech/Oral-Inter Comm	
AP Calculus, AP Statistics, or Math Elective(s)	
AP Env Science or Science Elective(s)	
AP US History or AP Psychology	
Physical Education	
Elective(s)	



## CAREER CLUSTERS

A career cluster is a group of careers that share common features. If you like one job in a cluster, you will probably find other jobs in that cluster that you will like as well. In total, there are 16 Career Clusters in the National Career Clusters Framework, representing more than 79 Career Pathways to help students navigate their way to greater success in college and the workplace. Career Clusters help students discover their interests and their passions, and empower them to choose the educational pathway that can lead to success in high school, in college and their careers.



**Agriculture, Food & Natural Resources** - *The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.*

- Agribusiness Systems
- Animal Systems
- Environmental Service Systems
- Food Products & Processing Systems
- Natural Resources Systems
- Plant Systems
- Power, Structural & Technical Systems



**Architecture & Construction** - *Careers in designing, planning, managing, building and maintaining the built environment.*

- Construction
- Design/Pre-Construction
- Maintenance/Operations



**Arts, A/V Technology & Communications** - *Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.*

- A/V Technology & Film
- Journalism & Broadcasting
- Performing Arts
- Printing Technology
- Telecommunications
- Visual Arts



**Business Management & Administration** - *Business Management and Administration careers encompass planning, productive business operations. Business Management and Administration career opportunities are available in every sector of the economy.*

- Administrative Support
- Business Information Management
- Operations Management
- Human Resources Management
- General Management



**Education & Training** - *Planning, managing and providing education and training services, and related learning support services.*

- Administration & Administrative Support
- Professional Support Services
- Teaching/Training



**Finance** - *Planning, services for financial and investment planning, banking, insurance, and business financial management.*

- Accounting
- Banking Services
- Business Finance
- Insurance
- Securities & Investments



**Government & Public Administration** - *Executing governmental functions to include Governance; National Security; Foreign Service; Planning; Revenue and Taxation; Regulation; and Management and Administration at the local, state, and federal levels.*

- Foreign Service
- Governance
- National Security
- Planning
- Public Management & Administration
- Regulation
- Revenue & Taxation



**Health Sciences** - Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.

- Biotechnology Research & Development
- Diagnostic Services
- Health Informatics
- Support Services
- Therapeutic Services



**Hospitality & Tourism** - Hospitality & Tourism encompasses the management, marketing and operations of restaurants and other foodservices, lodging, attractions, recreation events and travel related services.

- Lodging
- Recreation, Amusements & Attractions
- Restaurants & Food/Beverage Services
- Travel & Tourism



**Human Services** - Preparing individuals for employment in career pathways that relate to families and human needs.

- Consumer Services
- Counseling & Mental Health Services
- Early Childhood Development & Services
- Family & Community Services
- Personal Care Services



**Information Technology** - Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.

- Information Support & Services
- Network Systems
- Programming & Software Development
- Web & Digital Communications



**Law, Public Safety, Corrections & Security** - Planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.

- Correction Services
- Emergency & Fire Management Services
- Law Enforcement Services
- Legal Services
- Security & Protective Services



**Manufacturing** - Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

- Health, Safety & Environmental Assurance
- Logistics & Inventory Control
- Maintenance, Installation & Repair
- Manufacturing Production Process Dev.
- Production
- Quality Assurance



**Marketing** - Planning, managing, and performing marketing activities to reach organizational objectives.

- Marketing Communications
- Marketing Management
- Marketing Research
- Merchandising
- Professional Sales



**Science, Technology, Engineering & Mathematics** - Planning, managing, and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services, and research and development services.

- Engineering & Technology
- Science & Mathematics



**Transportation, Distribution & Logistics** - Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

- Facility & Mobile Equipment Maintenance
- Health, Safety & Environmental Management
- Transportation Operations
- Transportation Systems/Infrastructure Planning, Management & Regulation
- Sales & Service
- Logistics Planning & Management Services
- Warehousing & Distribution Center Operations

## Business Academy Career Pathways

Grade	Arts, Audio/Video Technology & Communications	Business Management & Administration Finance Hospitality & Tourism Marketing, Sales, and Service	Information Technology
<b>9</b>	<ul style="list-style-type: none"> <li>• Art I</li> <li>• Ceramics I</li> <li>• Ceramics II</li> <li>• Drama</li> <li>• Gaming</li> <li>• Digital Media</li> <li>• App Creators</li> <li>• Emerging Technologies</li> <li>• Careers: Business</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Apps</li> <li>• Emerging Technologies</li> <li>• Intro to Business</li> <li>• Marketing Principles</li> <li>• MS Access/Word</li> <li>• MS Excel</li> <li>• Food Science</li> <li>• Careers: Business</li> </ul>	<ul style="list-style-type: none"> <li>• Gaming</li> <li>• Digital Media</li> <li>• App Creators</li> <li>• Computer Apps</li> <li>• Emerging Technologies</li> <li>• MS Access/Word</li> <li>• MS Excel</li> <li>• Careers: Business</li> </ul>
<b>10</b>	<ul style="list-style-type: none"> <li>• Art I</li> <li>• Art II</li> <li>• Ceramics I</li> <li>• Ceramics II</li> <li>• Drama</li> <li>• Gaming</li> <li>• Digital Media</li> <li>• App Creators</li> <li>• Emerging Technologies</li> <li>• Food Service</li> <li>• Textile Technology</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Apps</li> <li>• Emerging Technologies</li> <li>• Intro to Business</li> <li>• Marketing Principles</li> <li>• Sports Marketing</li> <li>• MS Access/Word</li> <li>• MS Excel</li> <li>• Food Science</li> <li>• Food Service</li> <li>• Creative Writing</li> <li>• Industrial Enterprise</li> </ul>	<ul style="list-style-type: none"> <li>• Gaming</li> <li>• Digital Media</li> <li>• App Creators</li> <li>• Computer Apps</li> <li>• Emerging Technologies</li> <li>• Stagecraft</li> <li>• MS Access/Word</li> <li>• MS Excel</li> </ul>
<b>11</b>	<ul style="list-style-type: none"> <li>• Art II</li> <li>• Art III</li> <li>• Art IV</li> <li>• Ceramics I</li> <li>• Ceramics II</li> <li>• AP Studio Art</li> <li>• AP Art History</li> <li>• Drama</li> <li>• Digital Media</li> <li>• App Creators</li> <li>• Food Service</li> <li>• Textile Technology</li> <li>• Yearbook</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Apps</li> <li>• Business and Personal Law</li> <li>• Accounting I</li> <li>• Advanced Accounting</li> <li>• AP Macroeconomics</li> <li>• Intro to Business</li> <li>• Marketing Principles</li> <li>• Sports Marketing</li> <li>• MS Access/Word</li> <li>• MS Excel</li> <li>• Food Service</li> <li>• Creative Writing</li> <li>• Industrial Enterprise</li> <li>• AP Environmental Science</li> </ul>	<ul style="list-style-type: none"> <li>• Digital Media</li> <li>• App Creators</li> <li>• Computer Apps</li> <li>• IT Basics</li> <li>• Stagecraft</li> <li>• MS Access/Word</li> <li>• MS Excel</li> <li>• AP Computer Science</li> </ul>
<b>12</b>	<ul style="list-style-type: none"> <li>• Art III</li> <li>• Art IV</li> <li>• Ceramics I</li> <li>• Ceramics II</li> <li>• AP Studio Art</li> <li>• AP Art History</li> <li>• Drama</li> <li>• Digital Media</li> <li>• App Creators</li> <li>• Food Service</li> <li>• Textile Technology</li> <li>• Yearbook</li> <li>• Mentorship</li> </ul>	<ul style="list-style-type: none"> <li>• Computer Apps</li> <li>• Business and Personal Law</li> <li>• Accounting I</li> <li>• Advanced Accounting</li> <li>• AP Macroeconomics</li> <li>• Intro to Business</li> <li>• Marketing Principles</li> <li>• Sports Marketing</li> <li>• MS Access/Word</li> <li>• MS Excel</li> <li>• Food Service</li> <li>• Creative Writing</li> <li>• Industrial Enterprise</li> <li>• AP Environmental Science</li> <li>• Mentorship</li> </ul>	<ul style="list-style-type: none"> <li>• Digital Media</li> <li>• App Creators</li> <li>• Computer Apps</li> <li>• IT Basics</li> <li>• MS Access/Word</li> <li>• MS Excel</li> <li>• AP Computer Science</li> <li>• Mentorship</li> </ul>

## Health Sciences Academy Career Pathways

Grade	Health Sciences
9	<ul style="list-style-type: none"> <li>• Careers: Health</li> </ul>
10	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Human Psychology</li> <li>• Athletic Training &amp; Management</li> </ul>
11	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Human Psychology</li> <li>• AP Psychology</li> <li>• Athletic Training &amp; Management</li> <li>• Intro to Health Occupations</li> <li>• Principles of Biomedical Science</li> <li>• Human Body Systems</li> <li>• Medical Interventions</li> <li>• Biomedical Interventions</li> <li>• Anatomy &amp; Physiology</li> <li>• AP Environmental Science</li> <li>• Statistics</li> <li>• AP Statistics</li> </ul>
12	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Human Psychology</li> <li>• AP Psychology</li> <li>• Athletic Training &amp; Management</li> <li>• Intro to Health Occupations</li> <li>• Principles of Biomedical Science</li> <li>• Human Body Systems</li> <li>• Medical Interventions</li> <li>• Biomedical Interventions</li> <li>• Anatomy &amp; Physiology</li> <li>• AP Environmental Science</li> <li>• Statistics</li> <li>• AP Statistics</li> <li>• Mentorship</li> </ul>

## Human Services Academy Career Pathways

Grade	Education & Training	Government & Public Administration	Human Services	Law, Public Safety, Corrections & Security
9	<ul style="list-style-type: none"> <li>• Civics</li> <li>• Careers: Human Svc</li> </ul>	<ul style="list-style-type: none"> <li>• Civics</li> <li>• Careers: Human Svc</li> </ul>	<ul style="list-style-type: none"> <li>• Civics</li> <li>• Careers: Human Svc</li> </ul>	<ul style="list-style-type: none"> <li>• Civics</li> <li>• Careers: Human Svc</li> </ul>
10	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> </ul>	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> <li>• AP US Government &amp; Politics</li> </ul>	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> </ul>	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> </ul>
11	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> <li>• AP Psychology</li> <li>• PALS</li> </ul>	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> <li>• AP Psychology</li> </ul>	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> <li>• AP Psychology</li> <li>• PALS</li> <li>• AP Environmental Science</li> </ul>	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> <li>• AP Psychology</li> <li>• Intro to Criminal Justice</li> <li>• AP Environmental Science</li> </ul>
12	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> <li>• AP Psychology</li> <li>• PALS</li> <li>• BAK Tutor</li> <li>• BV Tutor</li> <li>• Mentorship</li> </ul>	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> <li>• AP Psychology</li> <li>• Mentorship</li> </ul>	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> <li>• AP Psychology</li> <li>• PALS</li> <li>• AP Environmental Science</li> <li>• Mentorship</li> </ul>	<ul style="list-style-type: none"> <li>• Sociology</li> <li>• Civics</li> <li>• Human Psychology</li> <li>• AP Psychology</li> <li>• Intro to Criminal Justice</li> <li>• AP Environmental Science</li> <li>• Mentorship</li> </ul>

## Stream Academy Career Pathways

Grade	Agriculture, Food and Natural Resources	Architecture & Construction	Manufacturing	Science, Technology, Engineering, and Mathematics
9	<ul style="list-style-type: none"> <li>• Animal Science – Large</li> <li>• Animal Science – Small</li> <li>• Landscaping</li> <li>• Plant Science</li> <li>• Wildlife and Cons Mngt</li> <li>• Welding I</li> <li>• Careers: Stream</li> </ul>	<ul style="list-style-type: none"> <li>• Landscaping</li> <li>• Wildlife and Cons Mngt</li> <li>• Intro to Eng Design</li> <li>• Woods I</li> <li>• Welding I</li> <li>• Careers: Stream</li> </ul>	<ul style="list-style-type: none"> <li>• Woods I</li> <li>• Welding I</li> <li>• Intro to Eng Design</li> <li>• Careers: Stream</li> </ul>	<ul style="list-style-type: none"> <li>• Food Science</li> <li>• Plant Science</li> <li>• Wildlife and Cons Mngt</li> <li>• Intro to Eng Design</li> <li>• Woods I</li> <li>• Welding I</li> <li>• MS Access/Word</li> <li>• MS Excel</li> <li>• Careers: Stream</li> </ul>
10	<ul style="list-style-type: none"> <li>• Animal Science – Large</li> <li>• Animal Science – Small</li> <li>• Landscaping</li> <li>• Plant Science</li> <li>• BioTechnology</li> <li>• Forestry</li> <li>• Mechanics</li> <li>• Wildlife and Cons Mngt</li> <li>• Natural Resources</li> <li>• Welding I</li> <li>• Welding II</li> </ul>	<ul style="list-style-type: none"> <li>• Landscaping</li> <li>• Wildlife and Cons Mngt</li> <li>• Natural Resources</li> <li>• Intro to Eng Design</li> <li>• Prin of Engineering</li> <li>• Civil Eng and Architecture</li> <li>• Woods I</li> <li>• Woods II</li> <li>• Welding I</li> <li>• Welding II</li> <li>• Construction Technology</li> <li>• Industrial Enterprise</li> </ul>	<ul style="list-style-type: none"> <li>• BioTechnology</li> <li>• Mechanics</li> <li>• Intro to Eng Design</li> <li>• Prin of Engineering</li> <li>• Civil Eng and Architecture</li> <li>• Woods I</li> <li>• Woods II</li> <li>• Welding I</li> <li>• Welding II</li> </ul>	<ul style="list-style-type: none"> <li>• Food Science</li> <li>• Plant Science</li> <li>• BioTechnology</li> <li>• Wildlife and Cons Mngt</li> <li>• Natural Resources</li> <li>• Intro to Eng Design</li> <li>• Prin of Engineering</li> <li>• Civil Eng and Architecture</li> <li>• Woods I</li> <li>• Woods II</li> <li>• Welding I</li> <li>• Welding II</li> <li>• Construction Technology</li> <li>• Modern Manuf Principles</li> <li>• MS Access/Word</li> <li>• MS Excel</li> </ul>
11	<ul style="list-style-type: none"> <li>• Animal Science – Large</li> <li>• Animal Science – Small</li> <li>• Plant Science</li> <li>• BioTechnology</li> <li>• Forestry</li> <li>• Mechanics</li> <li>• Wildlife and Cons Mngt</li> <li>• Natural Resources</li> <li>• AP Environmental Science</li> <li>• Welding I</li> <li>• Welding II</li> <li>• Building Trades</li> </ul>	<ul style="list-style-type: none"> <li>• Wildlife and Cons Mngt</li> <li>• Natural Resources</li> <li>• AP Environmental Science</li> <li>• Civil Eng and Architecture</li> <li>• Woods II</li> <li>• Welding I</li> <li>• Welding II</li> <li>• Construction Technology</li> <li>• Industrial Enterprise</li> <li>• Building Trades</li> </ul>	<ul style="list-style-type: none"> <li>• BioTechnology</li> <li>• AP Environmental Science</li> <li>• Mechanics</li> <li>• Prin of Engineering</li> <li>• Civil Eng and Architecture</li> <li>• AP Computer Science</li> <li>• Woods II</li> <li>• Welding I</li> <li>• Welding II</li> <li>• Building Trades</li> </ul>	<ul style="list-style-type: none"> <li>• Plant Science</li> <li>• BioTechnology</li> <li>• Wildlife and Cons Mngt</li> <li>• Natural Resources</li> <li>• AP Environmental Science</li> <li>• Prin of Engineering</li> <li>• Civil Eng and Architecture</li> <li>• AP Computer Science</li> <li>• Woods II</li> <li>• Welding I</li> <li>• Welding II</li> <li>• Construction Technology</li> <li>• Modern Manuf Principles</li> <li>• Building Trades</li> <li>• MS Access/Word</li> <li>• MS Excel</li> </ul>
12	<ul style="list-style-type: none"> <li>• Animal Science – Large</li> <li>• Animal Science – Small</li> <li>• Plant Science</li> <li>• BioTechnology</li> <li>• Forestry</li> <li>• Mechanics</li> <li>• Wildlife and Cons Mngt</li> <li>• AP Environmental Science</li> <li>• Welding II</li> <li>• Building Trades</li> <li>• Mentorship</li> </ul>	<ul style="list-style-type: none"> <li>• Wildlife and Cons Mngt</li> <li>• Civil Eng and Architecture</li> <li>• Welding II</li> <li>• Industrial Enterprise</li> <li>• Building Trades</li> <li>• Mentorship</li> </ul>	<ul style="list-style-type: none"> <li>• BioTechnology</li> <li>• Mechanics</li> <li>• Civil Eng and Architecture</li> <li>• AP Computer Science</li> <li>• Welding II</li> <li>• Building Trades</li> <li>• Mentorship</li> </ul>	<ul style="list-style-type: none"> <li>• Plant Science</li> <li>• BioTechnology</li> <li>• Wildlife and Cons Mngt</li> <li>• AP Environmental Science</li> <li>• Civil Eng and Architecture</li> <li>• AP Computer Science</li> <li>• Welding II</li> <li>• Modern Manuf Principles</li> <li>• Building Trades</li> <li>• MS Access/Word</li> <li>• MS Excel</li> <li>• Mentorship</li> </ul>

## COURSE CATALOG

### AGRICULTURE

#### **Agriculture Structure (5585ss)**

Grade Level: 11-12

Course Length: Semester Skinny

Credits: 0.50

Prerequisite(s): [Mechanics](#) and [Welding I](#)

Fulfills Grad Requirement: General Elective

This course will deal with agricultural carpentry and building structures especially important to animal care. Special considerations for ventilation and concrete and masonry technology will be emphasized. Surveying, building designs and layouts as well as construction costs will be discussed. This is a good course for anyone interested in construction or working with his or her hands. Class load of 15 recommended.

#### **Animal Science – Large (5555ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: Science Elective or General Elective

This course will focus on cattle, sheep, swine and horses. Animal conformation and evaluation, systems, nutrition, animal husbandry, and meat evaluation will be covered. Lab Activities are offered in animal selection, identification, health care, handling, and judging.

#### **Animal Science – Small (5553ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: Science Elective or General Elective

Open to all students wishing to develop knowledge in the handling small pets. This course involves the selection, feeding, reproduction, health, and behavior of small animals. Animals we will be covering include: dogs, cats, rabbits and other animals that are considered “pets.” Lab Activities are offered in animal selection, identification, health care, and handling.

#### **BioTechnology (5565ss)**

Grade Level: 11-12

Course Length: Semester Skinny

Credits: 0.50

Prerequisite(s): “C” or better in [Biology I](#)

Fulfills Grad Requirement: Science Elective or General Elective

Biotechnology is a course which applies technology to solve biological and agricultural problems. Areas of study will include animal genetics, lab safety and health, Food Science-ES, bioethics and moral issues, DNA studies, genetically modified organisms, cloning and plant tissue culture.

#### **Forestry (5561ss)**

Grade Level: 10-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

Forestry covers a wide variety of topics in the forestry industry. Tree identification, log scaling, urban forestry, diseases, wildlife management plan, timber stand improvement, harvesting of trees, chainsaw safety, forestry careers, tree planting, environmental issues, stocking, basal areas, and uses of the forest will be covered. This is a great class to learn and appreciate our local trees and management techniques.

### **Landscaping (5580ss)**

Grade Level: 9-10

Course Length: Semester Skinny

Credits: 0.50

Prerequisite(s): [Plant Science](#)

Fulfills Grad Requirement: General Elective

[Transcribed credit](#) issued from Southwest Technical College

Students will deal with care of plants designed for growing in the landscape. They will work with the school landscape and FFA plants. This course will teach students necessary skills and knowledge to better be able to meet requirements for positions in and related to greenhouse and nursery operations and give practical knowledge for home landscape installation and maintenance.

### **Mechanics (5570ss)**

Grade Level: 10-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

This class is open to a class load of 10 students, giving priority to seniors, then juniors. Mechanics deals with tool identification and care, safety, small engines, internal combustion engines, diesel power, hydraulics, electronics and basic problem solving strategies dealing with those things mechanical in nature.

### **Natural Resources (5575ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: Science Elective or General Elective

Natural Resources is a course for students interested in studying land use, water quality of the river and streams, and learning about the area plant and animal life. Careers in natural resources as well as learning about application of scientific principles to managing natural resources will be emphasized.

### **Plant Science (5560ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: Science Elective or General Elective

[Transcribed credit](#) issued from Southwest Technical College

Open to all students this course will make use of the greenhouse and cover such areas as plant growth, research of plants, weed and plant identification, soil types, and plant yields. Lab projects and experiments will give students hands-on approach to plant care and management. Hydroponics will also be covered. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Wildlife and Conservation Management (5551sb)**

Grade Level: 10-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Biology I](#) and [Natural Resources](#)

Fulfills Grad Requirement: Science Elective or General Elective

Open to students who have had Biology and Natural Resources with preference given mainly to upper classmen with an interest in a conservation career. This course covers an ethical look at wildlife management, soil conservation, air and water quality, which includes a variety of lab work and field trips. A close look at the Mississippi River and its connection to people and wildlife will highlight the class.



## ART

### AP Art History (5282ys)

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [Art I](#), [Art II](#), [Art III](#), [Art IV](#), or consent from instructor

Fulfills Grad Requirement: General Elective

The AP Art History course should engage students at the same level as an introductory college art history survey. Such a course involves critical thinking and should develop an understanding and knowledge of diverse **historical and cultural contexts** of architecture, sculpture, painting and other media. It also provides an opportunity for schools to strengthen an area neglected in most curricula. In this course, students examine and critically analyze major forms of artistic expression from the past and the present from a variety of cultures. While visual analysis is a fundamental tool of the art historian, art history emphasizes understanding how and why works of art function in context, considering such issues as patronage, gender, and the functions and effects of works of art. Many colleges and universities offer advanced placement and/or credit to students who perform successfully on the AP Art History Exam. **A general knowledge of world history is recommended for students who participate in AP Art History.**

### AP Studio Art (5295ys)

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [Art I](#), [Art II](#), [Art III](#), [Art IV](#), or consent from instructor

Fulfills Grad Requirement: General Elective

This Advanced College placement course covers three art related areas including drawing, two dimensional design, and three dimensional design. Specific requirements are posted online. It is strongly suggest that AP Art students complete as many art courses as possible, or possess strong artistic skills before registering for this class. A strong work ethic is very important as project requirements include as many as twenty four quality pieces of original artwork.

### Art I (5280ys)

Grade Level: 9-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: General Elective

Art I is offered to students as an introduction to the basic concepts of art and design applications. Art I will emphasize the fundamentals of drawing, painting, printmaking, sculpture, and design. Students will also have the opportunity to create artwork using computer design programs.

### Art II (5281ys)

Grade Level: 9-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [Art I](#) or consent from instructor

Fulfills Grad Requirement: General Elective

The course presents a more in-depth study into design techniques including drawing, painting, printmaking, sculpture, murals, posters, and other design problems. Some projects will relate to careers in Art. Students will also create artwork based on cultural, social and personal interests. Students will have options to create computer art including digital image editing.

### **Art III (5284ys)**

*Grade Level: 10-12*

*Course Length: Year*

*Credits: 1.00*

*Prerequisite(s): [Art I](#), [Art II](#), or consent from instructor*

*Fulfills Grad Requirement: General Elective*

Art III is offered to students as an advanced investigation into the concepts of 2-D and 3-D art and design applications. The course will consist of advanced composition and design techniques with an opportunity for students to choose and create their own projects. Students can use any approved art medium of choice. Students will also complete commercial art projects in order to investigate the career possibilities in art. Possible art activities will include lettering/logo design, commercial illustration, Mosaic design, and color theory. Some projects will include implementing computer technology. Possible 3-D projects will include building models, product or package design, creating a 3-D prototype model, and/or sculpture. The class will include a survey of various artistic techniques and materials using drawing pencils, colored pencils, markers, paints, inks, and colored paper. Student will also learn framing and matting techniques.

### **Art IV (5285ys)**

*Grade Level: 11-12*

*Course Length: Year*

*Credits: 1.00*

*Prerequisite(s): [Art III](#) or consent from instructor*

*Fulfills Grad Requirement: General Elective*

Students will incorporate various art related technology integrated into art projects. Projects options will include graphic design, movie making, Photo manipulation, and/or any other projects using technology or software available to them. Students will also have an opportunity to produce alternative art projects of choice. Students will also have options to develop portfolios.

### **Ceramics I (5286ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

Ceramics class will emphasize applications of design in creating functional and sculptural ceramic art. Students will learn how to prepare clay for sculpting and modeling. Students will also learn how to create forms using a variety of hand-building techniques including the potter's wheel.

### **Ceramics II (5288ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): [Ceramics I](#) or consent from instructor*

*Fulfills Grad Requirement: General Elective*

Ceramics II is offered to students as an investigation into concepts of 3-D art and design applications. Advanced ceramics students will further explore the construction techniques learned in Ceramics I, including the pinch, slab, coil, and thrown methods. Students will have options as to what kinds of projects they can produce based on required construction methods and personal objectives. Projects will require some research, and/or relate to advanced construction expectations based on skills learned from Ceramics I.

### **Independent Art (5289ss)**

*Grade Level: 11-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): [Art I](#), [Art II](#), [Art III](#), [Art IV](#), or consent from instructor*

*Fulfills Grad Requirement: General Elective*

Independent Art is offered to students who are interested in planning their own course goals. Students who register for this class must have a very strong work ethic and possess extreme skills in being self-directed. Students can choose to complete a body of work that relates exclusively to a particular kind of art such as ceramics, painting, drawing, or computer design. Students can also choose to complete a variety of projects. Evaluation of project concepts will be critical with expectations equivalent to Studio Art.

## BUSINESS EDUCATION

### Accounting I (5629ys)

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: Math Elective or General Elective

[Transcribed credit](#) issued from Southwest Technical College

Many different college and university majors **require** a course in Accounting. Why? Accounting is **the language of business!** Hospitals use Accounting, businesses use Accounting, government agencies use Accounting, sports organizations use Accounting, the entertainment industry uses Accounting, and the list goes on.

It is a well-known fact that the first few weeks of college accounting equals one year of high school accounting. Students planning on pursuing a business related major at a university or technical school will benefit from the knowledge they gain during this term.

This is a one semester course that teaches the basic elements of double entry accounting systems in a sole proprietorship and partnerships, with an introduction to corporations. Students will be introduced to both manual and automated accounting practices which use special journals and subsidiary ledgers. This course is recommended for students who plan to study any aspect of business and/or marketing at the college level, for students pursuing a business career, or for those seeking a practical business and/or personal business background.

The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### Advanced Accounting (5635sb)

Grade Level: 11-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Accounting I](#)

Fulfills Grad Requirement: Math Elective or General Elective

This course is for the student who enjoyed their previous Accounting course and wants to acquire a more thorough and in-depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions. Emphasis is placed on the corporate style of business organization. There are computer problems that support the lessons in the text. Examples of activities in Advanced Accounting include personal income taxes, depreciation, uncollectible accounts, stocks and bonds, and inventory costing.

The **Virtual Business – Accounting** sim brings accounting to life by letting your students do accounting on a business THEY run. Students work with T-accounts, a general journal, general ledger, and worksheets. Later, students move on to using financial statements and ratio analysis to solve real business problems. They even use forensic accounting to uncover fraud and errors. *This course may only be offered every other year during the second semester.*

### AP Macroeconomics (5640ys)

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: General Elective

[Transcribed credit](#) issued from Southwest Technical College

The purpose of the AP course in macroeconomics is to give students a thorough understanding of the principles of economics that apply to an economic system as a whole. The course place particular emphasis on the study of national income and price-level determination, and also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Application Creators (5602ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.500*

*Fulfills Grad Requirement: General Elective*

This course will act as an introduction to the development of mobile application for Android devices. The focus of the course will be on introducing students to not only the field of developing applications for mobile devices, but also the technologies and skills required to successfully continue their development once the course is complete.

By the end of this course, students will have exposure to and an understanding of:

- Basic object oriented programming concepts
- Mobile application development using Android Studio
- The steps needed to create and deploy applications
- Concepts related to the design process, which may translate into other fields
- Abilities to communicate and collaborate on group based projects
- Gain an understanding of the types of software used in mobile software development
- Become familiar with programming concepts
- Learn the basic steps needed to create and deploy applications

### **Business and Personal Law (5642ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

This offering is designed to acquaint students with the basic legal principles relevant to their roles as citizens, consumers, and employees. Content includes the origin of law, the court systems, criminal and civil law, rights and duties, basic elements of contracts, consumer protection, negotiable instruments, and employer-employee relations. Students will interpret laws through case studies. Students will acquire an understanding of legal procedures, an ability to recognize situations that call for legal advice, and an ability to formulate an argument based on facts and principles. This course is recommended for students who plan to study any aspect of business at the college level, for students pursuing a business career, or for those seeking a practical business and/or personal background.

### **Computer Applications (5603ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

[Transcribed credit](#) issued from Southwest Technical College

Computer Applications expands on the skills developed in the Computers 6, 7, and 8 courses. The scope of this course includes expanding computer literacy, applications, and analytical skills in software and hardware usage. Computer Applications focuses on Microsoft PowerPoint, advanced Microsoft Word, and advanced Microsoft Excel. Introductory Internet basics are also a part of the curriculum. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Digital Media (5647ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

This course is designed to provide students with an opportunity to take pictures (as well as modify previously created photos) and edit them using Adobe Photoshop CS software. Photos will be corrected for color, sharpness, composition, highlights and shadows, as well as many other characteristics. In addition, students will be assigned various activities related to the editing of photos. Also, Windows Movie Maker will be introduced. A digital still camera is recommended but not required.

### **Emerging Technologies (5612ss)**

Grade Level: 9-10

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

Emerging Technologies is designed to introduce the student to a number of current technological concepts, hardware, software, and trends. A main objective of this course is to become acquainted with Web 2.0 and its many applications. Students will work with wikis, Google Docs, podcasting, blogs, surveys/polls, etc. while learning more about Web 2.0. Current trends in technology and product reviews will be studied. The course concludes with field trips to a number of local businesses that sell and service current breakthrough technology in industries from the likes of computers, automobiles, and clothing to name a few.

### **Gaming (5614ss)**

Grade Level: 9-10

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

Gaming is simply a terrific introductory level computer programming course, but a lot more. We not only focus on programming skills, but also on each discipline related to STEM (science, technology, engineering and math). No previous programming experience is required. You will find a theme throughout the course...we want students to have fun, learn a lot and get excited about technology! You will learn how to critique a game, design an idea for a game, build/develop a game, and market the game. Problem solving is a daily activity!

### **IT Basics (5648ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

Students will develop required skills and techniques that meet the competencies in the six domains required to pass the industry certification exam. Students will learn a technical understanding of computer technology and hardware, troubleshooting/repair/maintenance, operating systems, networking, security, and operational procedures including communication skills and professionalism required of all entry-level IT professionals.

### **Introduction to Business (5646ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

[Transcripted credit](#) issued from Southwest Technical College

This course will introduce you to the world of business and help prepare you for future academic and career decisions. It is our goal that this course will also serve as a background for other business courses you may take in high school and in college. The long term emphasis would be to help you prepare for future employment.

In addition to helping inform and prepare the student on what a business career is and what is required, we also plan to take students through the basic steps of developing a business plan and looking at all the factors that go into implementing a business plan and successfully running a small business. The successful completion of this course will also give transcripted credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Marketing Principles (5601ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

[Transcripted credit](#) issued from Southwest Technical College

This course provides an integrated overview of business and marketing concepts and functions. Topics covered will include business operation functions, types of business organizations and ownership, business structure and culture, marketing principles, the world of marketing, the consumer market, marketing research, a product's life, pricing, and current events in marketing. The successful completion of this course will also give transcripted credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Microsoft Access/Word (5622ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

[Transcribed credit](#) issued from Southwest Technical College

The course description for this course will be determined at a later date. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Microsoft Excel (5621ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

[Transcribed credit](#) issued from Southwest Technical College

This course is an introduction to Microsoft Excel 2013. Students will learn the basic features to produce basic worksheets and charts. Other topic areas covered include formatting, formulas, built-in functions used to design functional worksheets to solve business problems. Basic experience with Windows is assumed. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Personal Finance I (5626ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: Math Elective or General Elective

[Transcribed credit](#) issued from Southwest Technical College

This course is a term course designed to prepare students to become/live financially independent. Consumer math problems will be used while providing students with information regarding financial planning, budgets, checking accounts and banking, credit, insurance, investments, and income taxes. This course is also designed to provide students with an understanding of basic personal business forms and records. EXCEL worksheets will be used to incorporate technology and the Occupational Outlook Handbook is one of many internet resources used. Preference is made to allow juniors and seniors to take this course as they have more personal financial experiences to draw from; however, it is possible for freshmen and sophomores to take this as well.

The **Virtual Business - Personal Finance** sim develops key personal financial skills in an online, simulated world. Students direct their simulated character through finding an apartment, job hunting, getting a bank account, budgeting, using credit, investing, paying taxes, and more. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Personal Finance II (5627ss)**

Grade Level: 10-12

Course Length: Semester Skinny

Credits: 0.50

Prerequisite(s): [Personal Finance I](#)

Fulfills Grad Requirement: Math Elective or General Elective

Are you interested in money? Do you wish you had more? Are you ambitious enough to research HOW you can have more? Are you confident enough to know that YOU control your own destiny? Do you enjoy reading, investigating, and calculating ways to come up with solutions? If so, continue reading . . .

It is assumed you have taken Personal Finance BEFORE taking this class. We will continue to work on Business Math problems and situations. A working knowledge of EXCEL is expected. We will explore the plans & theories of many personal finance experts that are in the media today and apply and contrast their suggestions to real life situations. **Dave Ramsey's Financial Peace University – High School curriculum** will be the basis for this course. We will calculate the cost of various purchasing options in regard to vehicles, homes, insurance, and retirement investments. We will look at the various taxes that are a part of an adult's life & discuss changes that directly affect us. This can be a fun and rewarding journey toward becoming MONEY SMART!

## **Sports Marketing (5643ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): [Marketing Principles](#)*

*Fulfills Grad Requirement: General Elective*

This course is going virtual! Yes, much of the coursework for Sports and Entertainment Marketing will be done online in a highly visual computer simulation of a football franchise that lets students handle promotion, develop ticket pricing strategies, evaluate stadiums and city locations, control stadium operations and staffing, find sponsors and licensing deals, and more.

## ENGLISH

### AP English Language (5064ys)

Grade Level: 11

Course Length: Year

Credits: 1.00

Prerequisite(s): [English 10](#)

Fulfills Grad Requirement: English 11

[Transcribed credit](#) issued from Southwest Technical College

The AP course in English Language and composition engages students in becoming skilled readers of prose written in a variety of rhetorical contexts and in becoming skilled writers who compose for a variety of purposes. Both their writing and their reading should make students aware of the interaction among a writer's purposes, audience expectations, and subjects as well as the way generic conventions and the resources of language contribute to effectiveness in writing. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### AP English Literature (5090ys)

Grade Level: 12

Course Length: Year

Credits: 1.00

Prerequisite(s): [AP English Language](#) or [English 11](#)

Fulfills Grad Requirement: English 12

The AP English Literature and Comprehension course is designed to engage students in the careful reading and critical analysis of imaginative literature. The course will include intensive study of representative works from various genres and periods, concentrating on works of recognized literary merit. Students will read deliberately and thoroughly, taking time to understand a work's complexity, to absorb its richness of meaning, and to analyze how that meaning is embodied in literary form.

Some major works that are studied will include HAMLET, MEDEA, DRACULA, poetry, drama, short stories, and essay. Writing assignments will focus on the critical analysis of literature and will include expository, analytical, and argumentative essays. Critical analysis will make up the bulk of student writing for the course. Students will take the AP test when scheduled, a 3-hour exam \* to include 60 minutes of multiple-choice questions and 120 minutes of free-response essay questions. The AP English Literature and Composition Exam tests students' skill in analyzing selected poems and prose passages and their ability to write critical or analytical essays based on poems, prose, passages, novels, or plays. NOTE: Instructor approval necessary.

### Creative Writing (5080ss)

Grade Level: 10-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

Creative Writing is an elective English offering for all grades. The course's main focus is to explore a variety of writing and reading genres including, but not limited to, poetry, essays, short stories, fairy tales, and journaling. Students will write their own memoirs, autobiographies, children's books, and interviews. Students will read excerpts from a variety of fiction and non-fiction sources. Although grammar is always a concern in any English class, with Creative Writing, students enjoy a bit more literary freedom. Along with written projects, students will analyze creative writers to compare how literary genres differ in content, style, and organization.

### English 9 (5053ys)

Grade Level: 9

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: English 9

This course is [REQUIRED](#) for graduation. This is a course designed to review grammar concepts and continue fundamental reading, writing, speaking, and listening skills. Major units of work include the study of short stories, poetry, modern drama, and an introduction of William Shakespeare. Students will read ROMEO AND JULIET, LORD OF THE FLIES, A LONG WAY GONE: MEMOIRS OF A BOY SOLDIER, and THE ODYSSEY, and the reading counts novels. Emphasis is placed upon narrative writing paragraphs and short essays. Students will complete a research paper of 1-2 pages.



### **English 10 (5058ys)**

Grade Level: 10

Course Length: Year

Credits: 1.00

Prerequisite(s): [English 9](#)

Fulfills Grad Requirement: English 10

This course is **REQUIRED** for graduation. This course builds on reading and writing skills developed in previous English classes. Vocabulary study is expanded to help improve reading rate and comprehension. English 10 students will read classics such as JULIUS CAESAR, THE SCARLET LETTER and THE CRUCIBLE as well as other works including nonfiction, drama, and poetry. Emphasis is placed upon persuasive and narrative writing. Students will write a 3-5 page argumentative research paper and present their topic using persuasive speaking skills.

### **English 11 (5063ys)**

Grade Level: 11

Course Length: Year

Credits: 1.00

Prerequisite(s): [English 10](#)

Fulfills Grad Requirement: English 11

This course is **REQUIRED** for graduation. This course will reinforce and improve reading and writing skills. Students will be exposed to American literature. In this course, students will learn reading techniques that will make American literature less threatening. English 11 will focus on improving vocabulary, paragraphs, essays, and grammar skills. Students will also complete a verbal presentation/speech in the fourth quarter.

### **English 12 (5067ys)**

Grade Level: 12

Course Length: Year

Credits: 1.00

Prerequisite(s): [AP English Language](#) or [English 11](#)

Fulfills Grad Requirement: English 12

This course is **REQUIRED** for graduation. This course reinforces writing, reading, vocabulary, speaking, and listening skills learned throughout the student's high school career. Major units of study will include a novel, world literature, reading strategies, standardized test practice, and connections to the real world. Students will be expected to read outside of class and participate in speaking and listening activities. Students will write a 5-page cause and effect research paper illustrating mastery of research and documentation techniques. Students will write scholarship essays and focus on the cause/effect essay. NOTE: Teacher's approval necessary.

### **Oral/Interpersonal Communication (5091ss)**

Grade Level: 11-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: English 12 or General Elective

[Transcribed credit](#) issued from Southwest Technical College

Students demonstrate competency in speaking, verbal and nonverbal communication, and listening skills through individual presentations, group activities and other projects. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Speech (5072ss)**

Grade Level: 12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: English 12 or General Elective

[Transcribed credit](#) issued from Southwest Technical College

Students explore the fundamentals of effective oral presentations to small and large groups. Students demonstrate competency through topic selection, audience analysis, methods of organization, research, structuring evidence and support, delivery techniques, and other essential elements of speaking successfully, including the listening process. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Speed Reading (5075ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

This is a course designed to help students read faster and comprehend more. Vocabulary and reading comprehension techniques will be studied through reading and listening drills. Students will work to identify and eliminate bad reading habits. Ask any adult: he/she will tell you that this is THE class to take if you plan to attend college.

### **Written Communication (5092ss)**

*Grade Level: 11-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: English 12 or General Elective*

[Transcribed credit](#) issued from Southwest Technical College

Students develop writing skills through prewriting, drafting, revising, and editing. Students complete writing assignments designed to help the learner analyze audience and purpose, research and organize ideas, and format and design documents based on subject matter and content. Students develop critical reading and thinking skills through the analysis of a variety of written documents. This entire curriculum centers around communication/writing in the **workplace**. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Yearbook (5078ss)**

*Grade Level: 11-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

Yearbook requires students with a sense of self-direction. Under the direction of a student editor the work includes lay-outs, copy writing, art work, photography, interviewing, photograph preparation, and creative planning. The class also requires sales and computer preparation of all copy.

## FAMILY AND CONSUMER SCIENCE

### Food Science-ES (5207ss)

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: Science Elective or General Elective

Food Science is the study of the nature of food from the soil or feed lot to the table. Food Science is interdisciplinary involving concepts from biology, physiology, chemistry, nutrition, health, and food preparation. Algebra concepts and writing skills will be enforced in many of the lab experiments.

Food Science is a hands-on course. Experimentation will clarify the concepts covered. The main topics covered include food safety, scientific evaluation, basic food chemistry, sensory perception, essential nutrients, and food related careers. We will also cover food processing, preservation, additives, packaging and development as time permits. This course will assist students in making science relevant to the “real world”.

This course is recognized by both the district and the Wisconsin Department of Education as a science equivalency.

### Food Service (5208sb)

Grade Level: 9-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Food Science-ES](#)

Fulfills Grad Requirement: General Elective

This course explores careers in the food service industry, safety and sanitation in food handling, quantity preparation methods, cost control, and food marketing. Field trips may be taken to local food service establishments. We also conduct a market analysis, test and sell food products in a business simulation. This course is ideal for students interested in food service careers or in operating a business.

### Independent Living (5239ss)

Grade Level: 11-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

This course is designed to prepare students for living on their own. Topics include basic survival skills of finding and furnishing an apartment, career exploration, applying and interviewing for a job, nutrition issues, laundry skills, using credit, living on a budget, purchasing and insuring a vehicle, consumer issues, roommate hassles, and much more. This is a practical course for students who are heading off to a dorm or apartment living.

### Introduction to Health Occupations (5220ss)

Grade Level: 11-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

The purpose of this course is to introduce students to the many opportunities for employment in health care and human services. The course will examine moral and ethical issues in health care; review responsibilities of a health care worker; explore historical influences on current health practices; introduce the variety of fields that make up this profession; offer job shadowing opportunities and allow students to interact with a variety of health care professionals. This course requires travel to and from sites by the student or guardian. This course is valuable to all students considering health professions!

### Textile Technology (5206ss)

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

Students in Textile Technology will experiment with a variety of materials, technologies and techniques to design and create innovative fabric and fine art projects. This focus on experiential learning to build skills will then be used to design larger projects based on students' individual interests. While experimenting with fine art and craft applications of textile related techniques, processes, and ideas, this course will encourage technical and material exploration as well as the use of critical thinking to develop artistic talent.

## FOREIGN LANGUAGE

### AP Chinese Language and Culture (5699ys)

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): "C" or better [Chinese IV](#) and consent from instructor

Fulfills Grad Requirement: General Elective

AP Chinese Language and Culture students practice perfecting their Chinese speaking, listening, and writing skills. They study vocabulary, grammar and cultural aspects of the language, and then apply what they have learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a college-level language course, AP Chinese prepares students for college placement exams and for further study of Chinese language, culture, and literature. A superlative completion of AP Chinese Language and Culture permits some students to test for credit introductory language courses offered in college.

### Chinese I (5700ys)

Grade Level: 9-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: General Elective

Students taking Chinese I will have the opportunity to learn the language of an emerging world power. Students will learn simultaneously to speak, listen, read and write Chinese through a variety of activities and media: dramatics, conversational pairings, game playing, recordings, tapes, videos, and teacher directed activities. Students are evaluated on their class participation, daily assignments, projects, periodic quizzes, and oral/written exams. Good reading skills are highly recommended when taking this course.

### Chinese II (5701ys)

Grade Level: 9-12

Course Length: Year

Credits: 1.00

Prerequisite(s): "C" or better [Chinese I](#)

Fulfills Grad Requirement: General Elective

Vocabulary growth expands in Chinese II with the addition of many conversational activities including: interacting and participating in a conversation: relating personal information about the past or future: getting into, through and out of typical cultural situations (e.g. \* getting a hotel room, ordering a meal, making a professional or personal appointment, using the post office, making a telephone call, getting a taxi, and passing through customs). Students further explore the cultures of Chinese-speaking people by studying their various regional customs, and viewing videos on China. Students are evaluated on their class participation, daily assignments, projects, periodic quizzes, and oral/written exams.

### Chinese III (5702ys)

Grade Level: 9-12

Course Length: Year

Credits: 1.00

Prerequisite(s): "C" or better [Chinese II](#)

Fulfills Grad Requirement: General Elective

The third year student will be able to handle successfully a variety of communicative tasks and social situations in the target language. Students will be able to initiate, sustain, and close a general conversation. They will read consistently with increased understanding from texts featuring description and narration. In addition to speaking and reading, the student will also have the opportunity to write short narratives in the target language. Students coming out of Chinese III will have the skills to communicate at intermediate level competency.

### **Chinese IV (5698ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): "C" or better [Chinese III](#)

Fulfills Grad Requirement: General Elective

Chinese IV is an advanced level Mandarin Chinese class focusing on all four communicative skills: speaking, listening comprehension, reading, and writing. Chinese IV students continue to build upon the foundation established in prior courses by learning the Most Frequently Occurring Chinese Characters up to #300 and the Most Frequent Bigrams up to #500. Course materials include graded readers, Chinese translation of books, music videos, movies, TV shows, and student-created study materials.

### **Chinese V (5695ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): "C" or better Chinese IV

Fulfills Grad Requirement: General Elective

The course description for this course will be determined at a later date.

### **AP Spanish Language and Culture (5716ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): "C" or better [Spanish IV](#)

Fulfills Grad Requirement: General Elective

AP Spanish Language and Culture students practice perfecting their Spanish speaking, listening, and writing skills. They study vocabulary, grammar and cultural aspects of the language, and then apply what they have learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid, working knowledge of all verb forms and tenses. The equivalent of a college-level language course, AP Spanish Language and Culture prepares students for college placement exams and for further study of Spanish language, culture, and literature. A superlative completion of AP Spanish Language and Culture permits some students to test for credit introductory and advanced language courses offered in college.

### **Spanish I (5703ys)**

Grade Level: 9-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: General Elective

Students taking Spanish I will have the opportunity to learn the language of America's largest ethnic minority. Students will learn simultaneously to speak, listen, read and write Spanish through a variety of activities and media: dramatics, conversational pairings, game playing, recordings, tapes, videos, and teacher directed activities. Students are evaluated on their class participation, daily assignments, projects, periodic quizzes, and oral/written exams. Good reading skills are highly recommended when taking this course.

### **Spanish II (5705ys)**

Grade Level: 9-12

Course Length: Year

Credits: 1.00

Prerequisite(s): "C" or better [Spanish I](#)

Fulfills Grad Requirement: General Elective

Vocabulary growth expands in Spanish II with the addition of many conversational activities including: interacting and participating in a conversation: relating personal information about the past or future: getting into, through and out of typical cultural situations (e.g. \* getting a hotel room, ordering a meal, making a professional or personal appointment, using the post office, making a telephone call, getting a taxi, and passing through customs). Students further explore the cultures of Spanish-speaking people by studying their various regional customs, preparing Spanish cuisine, and viewing videos on Spain and Latin America. Students are evaluated on their class participation, daily assignments, projects, periodic quizzes, and oral/written exams.

### **Spanish III (5707ys)**

*Grade Level: 9-12*

*Course Length: Year*

*Credits: 1.00*

*Prerequisite(s): "C" or better [Spanish II](#)*

*Fulfills Grad Requirement: General Elective*

The third year student will be able to handle successfully a variety of communicative tasks and social situations in the target language. Students will be able to initiate, sustain, and close a general conversation. They will read consistently with increased understanding from texts featuring description and narration. In addition to speaking and reading, the student will also have the opportunity to write short narratives in the target languages. Students coming out of Spanish III will have the skills to communicate at intermediate level competency. A superlative completion of Spanish III permits some students to test for credit introductory language courses offered in college.

### **Spanish IV (5709ys)**

*Grade Level: 10-12*

*Course Length: Year*

*Credits: 1.00*

*Prerequisite(s): "C" or better [Spanish III](#)*

*Fulfills Grad Requirement: General Elective*

Students in the fourth year of Spanish will carry out all the functions of level III increasing the content areas for discussion. Fourth year students will participate actively in oral and written forms including recounting a sequence of events, summarizing a movie, discussing current events, and making plans for a future activity. Communication in Spanish IV is in greater detail than previous levels using the present, past, and future tenses. Students at this level should survive linguistically and socially in the target culture. A superlative completion of Spanish IV permits some students to test for credit introductory Spanish Language courses offered in college.

## FRESHMAN ACADEMY

### **Careers: Business (5747ss)**

Grade Level: 9 Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

[Description here](#)

### **Careers: Health Sciences (5743ss)**

Grade Level: 9 Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

[Description here](#)

### **Careers: Human Services (5745ss)**

Grade Level: 9 Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

[Description here](#)

### **Careers: Stream (5741ss)**

Grade Level: 9 Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

[Description here](#)

## GUIDANCE

### **BAK Tutor (5934ss)**

*Grade Level: 12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): Administrative approval*

*Fulfills Grad Requirement: General Elective*

Students will work with the teachers and other staff at BAK Elementary as a tutor to students. Students may have to travel. Proper decorum is necessary.

### **BV Tutor (5935ss)**

*Grade Level: 12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): Administrative approval*

*Fulfills Grad Requirement: General Elective*

Students will work with the teachers and other staff at Bluff View Intermediate as a tutor to students. Students may have to travel. Proper decorum is necessary.

### **Mentorship (5937ss)**

*Grade Level: 12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): Administrative approval and a 3.50 cumulative GPA*

*Fulfills Grad Requirement: General Elective*

The Mentorship Program is offered to any senior with a 3.50 GPA and Administrative approval. The student must apply for acceptance in the program. If accepted, the student will be placed in a job shadowing/unpaid work experience with a mentor from the community. The program is designed to give the student first-hand experience in the area of career interest. Contact should be made with the School Counselor prior to the start of the term in order to fill out required paperwork.

### **PALS Tutor (5938ss)**

*Grade Level: 11-12*

*Course Length: Semester Skinny*

*Credits: 0.00*

*Prerequisite(s): Administrative approval through application and interview process*

*Fulfills Grad Requirement: NA*

Do you have a caring heart, a shoulder to lean on, a listening ear, and time to spend with a child? If so, PALS (People Actively Linked with Students) may be the opportunity for you. The PALS Program is designed to offer personal support and friendship to elementary school children in need. The children have been referred to the program by their teacher, parent or counselor. They can benefit from contact with a positive, patient, reliable caring adult role model.

Big PALS meet with their child (Little PAL) one day per week during the lunch hour or study hall. You may choose to spend the time eating together, talking, helping the child with his/her school work, playing games, or shooting hoops. The only thing required of you is to show up and spend your time together in a one on one relationship.

### **Work Experience (5936ss)**

*Grade Level: 12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

The course is designed to assist students in gaining valuable general and specific job skills by participating in work related activities. These activities are graded and students will receive credit and pay. Students may receive up to **1/2 credit** per period, not to exceed more than 2 total credits earned. For example: A student participates in the Work Experience program for two periods each semester. (0.5 credit x 2 periods) = 1 credit earned x 2 semesters = 2 credits earned for the entire year. Required paperwork can be obtained from the Guidance Office.



## MATHEMATICS

### Accounting I (5629ys)

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: Math Elective or General Elective

[Transcribed credit](#) issued from Southwest Technical College

This course is taught in the Business Education Department. Many different college and university majors **require** a course in Accounting. Why? Accounting is **the language of business!** Hospitals use Accounting, businesses use Accounting, government agencies use Accounting, sports organizations use Accounting, the entertainment industry uses Accounting, and the list goes on.

It is a well-known fact that the first few weeks of college accounting equals one year of high school accounting. Students planning on pursuing a business related major at a university or technical school will benefit from the knowledge they gain during this term.

This is a one semester course that teaches the basic elements of double entry accounting systems in a sole proprietorship and partnerships, with an introduction to corporations. Students will be introduced to both manual and automated accounting practices which use special journals and subsidiary ledgers. This course is recommended for students who plan to study any aspect of business and/or marketing at the college level, for students pursuing a business career, or for those seeking a practical business and/or personal business background.

The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### Advanced Accounting (5635sb)

Grade Level: 11-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Accounting I](#)

Fulfills Grad Requirement: Math Elective or General Elective

This course is taught in the Business Education Department. This course is for the student who enjoyed their previous Accounting course and wants to acquire a more thorough and in-depth knowledge of accounting procedures and techniques utilized in solving business problems and making financial decisions. Emphasis is placed on the corporate style of business organization. There are computer problems that support the lessons in the text. Examples of activities in Advanced Accounting include personal income taxes, depreciation, uncollectible accounts, stocks and bonds, and inventory costing.

The **Virtual Business – Accounting** sim brings accounting to life by letting your students do accounting on a business THEY run. Students work with T-accounts, a general journal, general ledger, and worksheets. Later, students move on to using financial statements and ratio analysis to solve real business problems. They even use forensic accounting to uncover fraud and errors. *This course may only be offered every other year during the second semester.*

### Algebra I (5008sb)

Grade Level: 9-12

Course Length: Semester Block

Credits: 1.00

Fulfills Grad Requirement: Mathematics, Math Elective, General Elective

This course is **REQUIRED** for graduation. In Algebra I, the student will be actively involved in mathematical problem solving through the study of patterns and linear functions, proportional reasoning and linear functions, modeling situations using multiple representations, linear equations and systems of equations, statistical analysis, quadratics, and laws of power. Much of the time in this class will be spent working in small groups.

## **Algebra II (5015sb)**

Grade Level: 9-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Geometry](#)

Fulfills Grad Requirement: *Mathematics, Math Elective, or General Elective*

[Transcripted credit](#) issued from Southwest Technical College

This course is **REQUIRED** for graduation. In Algebra II, topics of the first algebra course are reviewed and enlarged upon with later consideration being given to additional topics from algebra and analytic geometry. Specific attention is paid to the graphic consideration of lines, parabolas, exponential functions and logarithmic functions. Some other topics covered, which might be familiar to first year algebra students, are sets, factoring of polynomials, and arithmetic operations on fractions involving unknowns. Some possibly unfamiliar topics include relations and functions (constant, linear, quadratic, etc.), quadratic equations and inequalities, logarithmic and exponential functions, trigonometry and complex numbers. Much of the time in this class will be spent working in small groups. The successful completion of this course will also give transcripted credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

## **AP Calculus AB (5025ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [Calculus](#)

Fulfills Grad Requirement: *Mathematics, Math Elective, or General Elective*

AP Calculus AB is an advanced placement class that may allow for college credit or advanced standing when entering college. This course will allow you to challenge yourself to see what you are capable of achieving. Having experience with AP Calculus and exams can only enhance your chance of admission to a college. This will include intensive study to help students who are looking to major in the math, science, engineering, or business fields. Three-Hour exams will be given covering topics typically included in an introductory Calculus I college course. 105 minutes of multiple-choice questions and 90 minutes of free-response questions will be used. Both the multiple-choice and free-response sections contain parts where a graphing calculator is required and parts where calculator use is prohibited. Students will be expected to have a graphing calculator for use in this class. The TI-83 or TI-84 is recommended as this will be the type used for demonstration purposes in the class.

## **AP Calculus BC (5019ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [AP Calculus AB](#)

Fulfills Grad Requirement: *Mathematics, Math Elective, or General Elective*

AP Calculus BC is an advanced placement class that may allow for college credit or advanced standing when entering college. This course will allow you to challenge yourself to see what you are capable of achieving. Having experience with AP Calculus and exams can only enhance your chance of admission to a college. This will include intensive study to help students who are looking to major in the math, science, engineering, or business fields. Three-Hour exams will be given covering topics typically included in an introductory Calculus I college course. 105 minutes of multiple-choice questions and 90 minutes of free-response questions will be used. Both the multiple-choice and free-response sections contain parts where a graphing calculator is required and parts where calculator use is prohibited. Students will be expected to have a graphing calculator for use in this class. The TI-83 or TI-84 is recommended as this will be the type used for demonstration purposes in the class.

### **AP Computer Science Principles PLTW (5545ys)**

Grade Level: 10-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [Algebra II](#)

Fulfills Grad Requirement: *Mathematics, Math Elective, or General Elective*

This course is taught in the Technology Education Department. Computer Science Principles implements the College Board's 2013 CS Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science. CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, robotics, and simulation. The course aligns with CSTA 3B standards. Students will have the opportunity to take both the PLTW and AP exams at the end of the course.

### **AP Statistics (5022ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [Statistics](#)

Fulfills Grad Requirement: *Mathematics, Math Elective, or General Elective*

[Transcribed credit](#) issued from Southwest Technical College

The purpose of the AP course in statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed to four broad conceptual themes:

1. Exploring Data: Describing patterns and departures from patterns
2. Sampling and Experimentation: Planning and conducting a study
3. Anticipating Patterns: Exploring random phenomena using probability and simulation
4. Statistical Inference: Estimating population parameters and testing hypotheses

Students who successfully complete the course and exam may receive credit, advanced placement, or both for one semester introductory college statistics course. The College Board AP Statistics Test will be required to be taken by the student with the Prairie du Chien School District covering the cost of the test. Students will be expected to have a graphing calculator for use in this class. The TI-83 or TI-84 is recommended as this will be the type used for demonstration purposes in the class. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Applied Math (5036ss)**

Grade Level: 11-12

Course Length: Semester Skinny

Credits: 0.50

Prerequisite(s): Senior/junior who has completed [Geometry](#)

Fulfills Grad Requirement: *Math Elective or General Elective*

[Transcribed credit](#) issued from Southwest Technical College

In Applied Mathematics students will compute with rational numbers. They make and convert various measurements. Students use formulas to solve problems. They compute dimensions of geometric shapes. Students use statistical tools to represent and analyze data. They analyze various financial situations. Students use basic right triangle trigonometry to solve problems. In each topic area, students solve application problems. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Bridge to Algebra A (5037ys)**

Grade Level: 9-10

Course Length: Year

Credits: 1.00

Prerequisite(s): *Administration/Teacher Recommendation*

Fulfills Grad Requirement: *Math Elective or General Elective*

In Bridge to Algebra A, the student will be involved in mathematical problem solving through the study of algebraic thinking. Topics will include: ratios, rates and percents, operations with rational numbers, numerical and algebraic expressions and equations, solving two-step equations and inequalities, study of triangles and circles, scale drawings and scale factors. Much of the time in this class will be spent working in small groups.

### **Bridge to Algebra B (5039ys)**

*Grade Level: 9-10*

*Course Length: Year*

*Credits: 1.00*

*Prerequisite(s): Administration/Teacher Recommendation*

*Fulfills Grad Requirement: Math Elective or General Elective*

In Bridge to Algebra B, the student will be involved in mathematical problem solving through the study of algebraic thinking. Topics will include: linear functions, the real number system, systems of equations, properties of exponents, volume, analysis and manipulation of two-dimensional shapes, and introductory data analysis. Much of the time in this class will be spent working in small groups.

### **Building Trades (5512sb)**

*Grade Level: 11-12*

*Course Length: Semester Block*

*Credits: 1.00*

*Prerequisite(s): [Construction Technology](#)*

*Fulfills Grad Requirement: Math Elective or General Elective*

This course is taught in the Technology Education Department. This course is designed to give the student hands-on experience in the field of construction. Students will be expected to plan, lay-out, and construct small buildings such as garages and storage sheds along with general home maintenance and remodeling. Some work may be done off campus for the general public. This class will be limited to seven students: if more than seven sign up, past performance in technology education classes and career goals will determine who will be selected.

### **Calculus (5020sb)**

*Grade Level: 11-12*

*Course Length: Semester Block*

*Credits: 1.00*

*Prerequisite(s): [Pre-Calculus](#)*

*Fulfills Grad Requirement: Mathematics, Math Elective, or General Elective*

Calculus is designed for students interested in math, science, engineering or business careers. Students are introduced to the topics of derivatives and integrals. Students learn how to calculate them and their applications to real world problems. Students will be expected to have a graphing calculator for use in this class. The TI-83 or TI-84 is recommended as this will be the type used for demonstration purposes in the class.

### **Civil Engineering and Architecture PLTW (5542sb)**

*Grade Level: 10-12*

*Course length: Semester Block*

*Credits: 1.00*

*Prerequisite(s): [Principles of Engineering PLTW](#)*

*Fulfills Grad Requirement: Math Elective or General Elective*

This course is offered every other year and is taught in the Technology Education Department. This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as site planning, design, and project documentation and presentation. This course will utilize Auto Cad Drafting to design a home floor plan and elevation drawings. A scale model of your design will then be constructed. In addition, students will put to use the tools and building techniques of the modern residential carpenter. Some of the units of instruction will include foundations, framing, roof systems, electrical wiring, and plumbing.

### **Construction Technology (5507ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: Math Elective or General Elective*

This course is taught in the Technology Education Department. This course will utilize Auto Cad Drafting to design a home floor plan and elevation drawings. A scale model of your design will then be constructed. In addition, students will put to use the tools and building techniques of the modern residential carpenter. Some of the units of instruction will include foundations, framing, roof systems, electrical wiring, and plumbing.

### **Geometry (5028sb)**

Grade Level: 9-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Algebra I](#)

Fulfills Grad Requirement: *Mathematics, Math Elective, or General Elective*

This course is **REQUIRED** for graduation. In Geometry, the student will be actively involved in mathematical problem solving through the study of shapes and patterns. Students will focus on the topics of polygons, perimeter, area, volume, surface area, angles, triangles, parallel and perpendicular lines, transformations, similarity, congruence, quadrilaterals, circles, and trigonometry. Much of the time in this class will be spent working in small groups.

### **Industrial Enterprise (5514sb)**

Grade Level: 10-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Woods I](#)

Fulfills Grad Requirement: *Math Elective or General Elective*

This course is taught in the Technology Education Department. This course will cover all aspects of how a business functions on a day to day basis. We will actually create a small business from scratch over the course of the semester. Areas we will cover include design, marketing, engineering, production, quality control, sales, and finance management.

### **Introduction to Engineer Design PLTW (5540ys)**

Grade Level: 9-10

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: *Math Elective or General Elective*

This course is taught in the Technology Education Department. This course emphasizes the development of a design. Students use computer software to produce, analyze, and evaluate models of projects and/or solutions. Students will study the design concepts of form and function. They will use state of the art technology to translate conceptual design into reproductive products.

### **Personal Finance I (5626ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: *Math Elective or General Elective*

[Transcripted credit](#) issued from Southwest Technical College

This course is taught in the Business Education Department. This course is a term course designed to prepare students to become/live financially independent. Consumer math problems will be used while providing students with information regarding financial planning, budgets, checking accounts and banking, credit, insurance, investments, and income taxes. This course is also designed to provide students with an understanding of basic personal business forms and records. EXCEL worksheets will be used to incorporate technology and the Occupational Outlook Handbook is one of many internet resources used. Preference is made to allow juniors and seniors to take this course as they have more personal financial experiences to draw from; however, it is possible for freshmen and sophomores to take this as well.

The **Virtual Business - Personal Finance** sim develops key personal financial skills in an online, simulated world. Students direct their simulated character through finding an apartment, job hunting, getting a bank account, budgeting, using credit, investing, paying taxes, and more. The successful completion of this course will also give transcripted credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

## Personal Finance II (5627ss)

Grade Level: 10-12

Course Length: Semester Skinny

Credits: 0.50

Prerequisite(s): [Personal Finance I](#)

Fulfills Grad Requirement: Math Elective or General Elective

This course is taught in the Business Education Department. Are you interested in money? Do you wish you had more? Are you ambitious enough to research HOW you can have more? Are you confident enough to know that YOU control your own destiny? Do you enjoy reading, investigating, and calculating ways to come up with solutions? If so, continue reading . . .

It is assumed you have taken Personal Finance BEFORE taking this class. We will continue to work on Business Math problems and situations. A working knowledge of EXCEL is expected. We will explore the plans & theories of many personal finance experts that are in the media today and apply and contrast their suggestions to real life situations. **Dave Ramsey's Financial Peace University – High School curriculum** will be the basis for this course. We will calculate the cost of various purchasing options in regard to vehicles, homes, insurance, and retirement investments. We will look at the various taxes that are a part of an adult's life & discuss changes that directly affect us. This can be a fun and rewarding journey toward becoming MONEY SMART!

## Pre-Calculus (5018sb)

Grade Level: 10-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Algebra II](#) or [Integrated Math III](#)

Fulfills Grad Requirement: Mathematics, Math Elective, or General Elective

[Transcribed credit](#) issued from Southwest Technical College

Pre-Calculus is designed to prepare students for higher level mathematics. The main areas of study are advanced techniques for algebra and trigonometry. This course is designed for students interested in math, science, engineering, technology, or business careers. Students will be expected to have a graphing calculator for use in this class. The TI-83 or TI-84 is recommended as this will be the type used for demonstration purposes in the class. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### UNITS OF STUDY

- 1 - Functions
- 2 - Polynomial/Rational Functions
- 3 - Exponential/Logarithmic Functions
- 4 - Conic Sections
- 5 - Trigonometric Functions of Real Numbers
- 6 - Trigonometric Functions of Angles
- 7 - Analytic Trigonometry
- 8 - Polar Coordinates and Vectors

## Principles of Engineering PLTW (5541sb)

Grade Level: 10-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Algebra II](#) or [Integrated Math III](#)

Fulfills Grad Requirement: Math Elective or General Elective

This course is taught in the Technology Education Department. This course is for any student who plans on pursuing a career in engineering or a career as an engineering technician at a university or technical college. This course will expose students to the important concepts involved in engineering. Students will work on real-life case studies that are examples of the type of problems they would be solving in this career. While working on the case studies, students will be implementing acquired math and science skills. This hands-on laboratory course will cover the concepts, principles, skills, techniques, and attitudes for a career in engineering. This course may be used as a math credit.

### **Statistics (5017ss)**

*Grade Level: 11-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): [Algebra II](#) or [Integrated Math III](#)*

*Fulfills Grad Requirement: Mathematics, Math Elective, or General Elective*

Statistics applies to students going into business and social science fields as well as the math and science fields. The Advanced Placement Statistics course is divided into four main topics. In this course, we will look at the first two of these topics; "Exploring Data" and "Sampling and Experimentation". Students will learn how to describe patterns in data and departures from the pattern. Students will also learn how to plan and conduct a study. Students will be expected to have a graphing calculator for use in this class. The TI-83 or 84 is recommended as this will be the type used for demonstration purposes in the class.

#### UNITS OF STUDY

- 1 - What is Statistics?
- 2 - Exploring Data
- 3 - Describing Location in a Distribution
- 4 - Examining Relationships
- 5 - Relationships between Two Variables
- 6 - Producing Data

### **Woods I (5502ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: Math Elective or General Elective*

This course is taught in the Technology Education Department. This course is designed to acquaint the students with tools and machinery as well as various wood joints utilized in the wood working industry. The primary emphasis of instruction is based upon the development of skills in using hand tools and power wood working equipment. Students will be required to make projects selected by the instructor. Students will be evaluated on written work assigned, lab participation, and lab performance throughout the semester. A lab fee will be assessed for materials used.

### **Woods II (5501ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

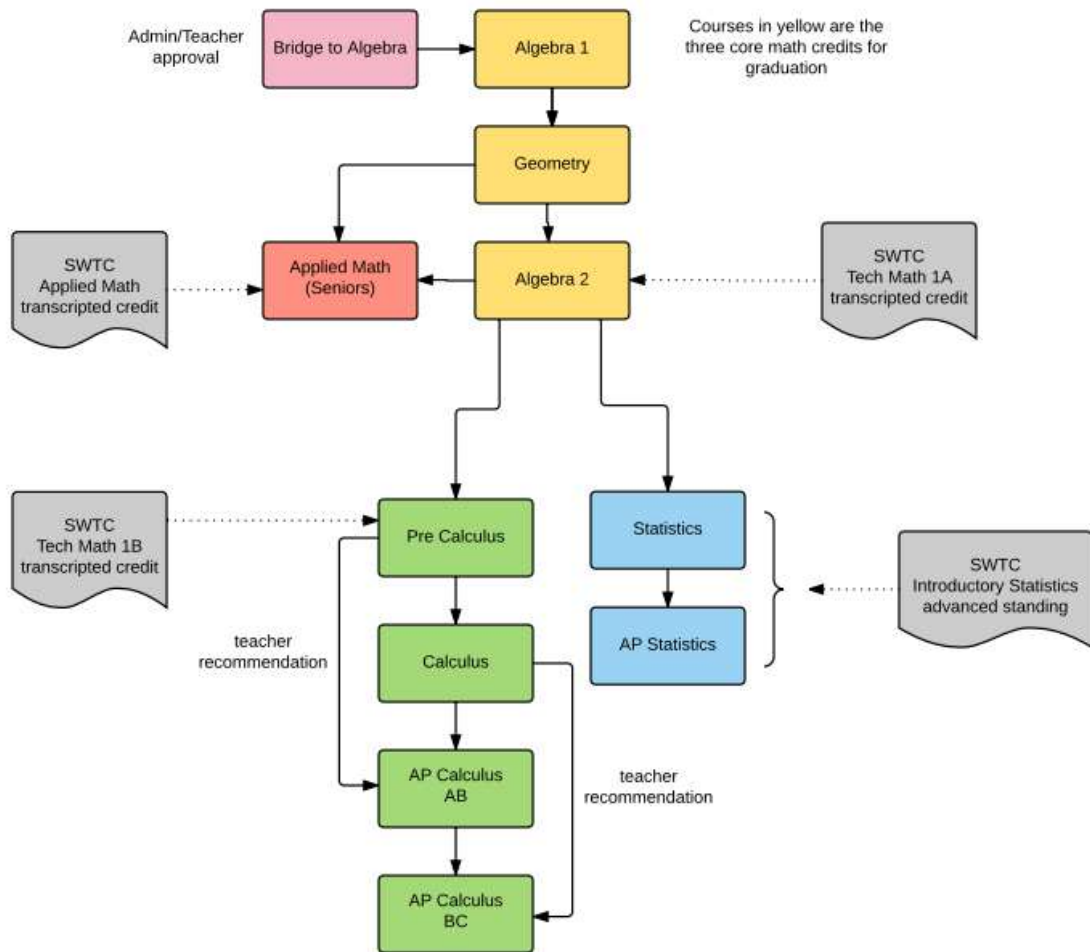
*Credits: 0.50*

*Prerequisite(s): C or better in [Woods I](#), or instructor approval*

*Fulfills Grad Requirement: Math Elective or General Elective*

This course is taught in the Technology Education Department. This course is designed to acquaint the students with tools and machinery as well as various wood joints utilized in the wood working industry. The primary emphasis of instruction is based upon the development of skills in using hand tools and power wood working equipment. Students will be required to make projects selected by the instructor. Students will be evaluated on written work assigned, lab participation, and lab performance throughout the semester. A lab fee will be assessed for materials used. Students must pass with a C or better semester grade, demonstrate the ability to work safely, responsibly and independently or have instructor approval to be admitted into Woods II.

## HS Math Courses Flowchart





## MUSIC

### **AP Music Theory (5256ys)**

*Grade Level: 11-12*

*Course Length: Year*

*Credits: 1.00*

*Fulfills Grad Requirement: General Elective*

The AP Music Theory Exam is intended for secondary school students who have completed music theory studies comparable to introductory college courses in music theory. This course is designed to develop musical skills that will lead to a thorough understanding of music composition and music theory. The emphasis will be on the rules of theory and composition, ear training, sight singing, score analysis, and keyboard skills.

Students are prepared to take the AP<sup>®</sup> Music Theory Exam when they have completed the course. Students planning to major in music in college may be able to enroll in an advanced music theory course, depending on individual colleges' AP policies.

### **Band (5251ys)**

*Grade Level: 9-12*

*Course Length: Year*

*Credits: 1.00*

*Prerequisite(s): Previous experience in band or Instructor Approval*

*Fulfills Grad Requirement: General Elective*

Band is the major performing organization within the instrumental music program. The band performs at concerts, festivals, halftime shows, and parades. Band members are required to participate in all performances and the assigned number of lessons throughout the year. Band members also have the opportunity to participate in Pep Band, Solo & Ensemble Festival, as well as other ensembles that arise from being a member of the band. Students planning on taking band should participate in summer band.

### **Concert Choir (5261ys)**

*Grade Level: 9-12*

*Course Length: Year*

*Credits: 1.00*

*Fulfills Grad Requirement: General Elective*

Concert Choir is a major performing organization. Concert Choir is the core ensemble of the Vocal Music Department and members have an opportunity to build on their talents by being a part of Chamber Choir, Vocal Jazz Ensemble, District and State Solo & Ensemble Contests, the all-school musical, and the all school Variety Show. Concepts in ear training and the development of the voice in the choral style are stressed with independent music skills being the goal. Elements of musical style and historical perspectives are also introduced. This group is active in several large group performances and students are to attend the expected number of lessons. Concert Choir and all of the related musical activities are provided so students may enjoy a well-rounded vocal musical experience.

### **Drama (5271ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

Drama class is where students will receive an overview of the dramatic, theatrical world. Units on style, genre, and theatrical elements will be explored. Students will also learn what is involved in the acting process. This course will deal with the basics of the elements of theater, improvisation, building a scene, character analysis, rehearsing, and sitting in the director's chair. Each student will be required to perform a monologue (solo acting) as well as other group activities.

### **Electronic Music (5263ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

This course is a "hands-on" course that deals with electronics in music and the many applications that exist. It is offered to students in grades 9-12. Analog electronic composition is the ultimate goal of this course. Basic characteristics of electricity will be introduced as well as units on amplification, effects, equalization, microphone techniques, audio mixing, and acoustics. Multi-track recording will be utilized with units on decibels, tape bias, layering, over-dubbing, and tape manipulation. A study of the short history of electronic music, significant composers and compositions will also be included. This course is designed to meet the needs of students who may or may not be enrolled in other performing groups.

### **Jazz Band (5266ys)**

*Grade Level: 9-12*

*Course Length: Year*

*Credits: 0.50*

*Prerequisite(s): Concurrent enrollment in [band](#) or Instructor Approval*

*Fulfills Grad Requirement: General Elective*

Jazz Band is a specialized ensemble of the instrumental music department. Students will discover and perform music from this uniquely American style of music. Emphasis on jazz performance practices and discovery of improvisation are central to this course. The group performs at all concerts and also festivals in the spring.

### **Jazz Survey (5253ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): Concurrent enrollment in [band](#) or Instructor Approval*

*Fulfills Grad Requirement: General Elective*

Jazz Survey is a non-performing course that explores musical styles, composers, and performers of Jazz. Through listening examples and class projects, students will gain an understanding of the evolution of Jazz.

### **Music History (5254ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

Students that are interested in expanding their general knowledge of music will enjoy Music History. Students will enjoy the evolution of Western music from its origin to the present day. We will also cover music of different cultures as well as popular forms of American music. This course is highly recommended as a college preparatory course for students interested in studying music after graduation.

### **Stagecraft (5273ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

Stagecraft class is a "hands-on" theater experience where students learn the mechanics that are involved in the technical side of producing a show. Students will learn the basics of set design and construction, lighting, stage management, and costuming. In addition to creating designs the students will also work on the construction of the scenery for the fall musical.

### **Vocal Jazz Ensemble (5265ys)**

*Grade Level: 9-12*

*Course Length: Year*

*Credits: 1.00*

*Prerequisite(s): [Concert Choir](#)*

*Fulfills Grad Requirement: General Elective*

Vocal Jazz Ensemble is a select vocal ensemble which explores the jazz style as it pertains to vocalists. Elements of jazz theory and harmony are presented as well as historical information. Microphone techniques and sound system management will also be covered. This group can accommodate 8 to 16 singers and a rhythm section. Ensemble will rehearse for a minimum of 90 minutes per week. These rehearsals take place during 9th hours Study Halls, evenings, or Saturday mornings. The group will perform at various festivals and workshops as well as many local events throughout the year.

## PHYSICAL EDUCATION/HEALTH

### **Athletic Training and Management (5306ys)**

*Grade Level: 10-12*

*Course Length: Year*

*Credits: 1.00*

*Fulfills Grad Requirement: Physical Education or General Elective*

Students will learn about the body, how to train it and improve overall health in the areas of cardiovascular fitness, flexibility, muscular strength, speed and endurance through workout and activities. Students will also learn about team work, goal setting and facts of the performance body. Through this course students will be developing the mobility and stability to perform for the current season and beyond. Students will be challenged to bring their intensity and focus to a new level.

### **Core Performance (5305ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: Physical Education or General Elective*

Core Performance is an advanced course for students who want to challenge and improve their current level of athletic fitness. The class will have high intensity to advance athletic performances in the areas of Balance, Flexibility, Coordination, Speed, Strength/Power, Agility and Quickness. Through this course students will be developing the mobility and stability to perform for the current season and beyond. Students will be challenged to bring their intensity and focus to a new level.

### **Health (5350ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: Health*

This course is [REQUIRED](#) for graduation. The purpose of this course is to develop more through awareness and understanding of the major dimensions of health. Curriculum areas include: personal wellness, nutrition and fitness, mental and emotional health, disease and disorders, alcohol, tobacco and other drugs, CPR, and First Aid.

### **Lifetime Sports (5315ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: Physical Education or General Elective*

Students will work on improving their overall physical conditioning through set workout routines along with introductory levels of activities to be physically active for a lifetime. Students will learn about the sciences of sports including anatomy, physics, and biomechanics as it applies to daily activity.

## SCIENCE

### **Anatomy & Physiology (5132ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: Science Elective or General Elective

[Transcribed credit](#) issued from Southwest Technical College

Students examine basic concepts of human anatomy and physiology as they relate to health sciences. Students use a body systems approach to analyze the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. They apply basic concepts of whole body anatomy and physiology to make informed decisions as health care professionals and to communicate professionally with colleagues and patients. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Animal Science – Large (5555ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: Science Elective or General Elective

This course is taught in the Agriculture Department. This course will focus on cattle, sheep, swine and horses. Animal conformation and evaluation, systems, nutrition, animal husbandry, and meat evaluation will be covered. Lab Activities are offered in animal selection, identification, health care, handling, and judging.

### **Animal Science – Small (5553ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: Science Elective or General Elective

This course is taught in the Agriculture Department. Open to all students wishing to develop knowledge in the handling small pets. This course involves the selection, feeding, reproduction, health, and behavior of small animals. Animals we will be covering include: dogs, cats, rabbits and other animals that are considered “pets.” Lab Activities are offered in animal selection, identification, health care, and handling.

### **AP Chemistry (5120ys)**

Grade Level: 10-12

Course Length: Year

Credits: 1.00

Prerequisite(s): “C” or better in [Chemistry II](#)

Fulfills Grad Requirement: Science, Science Elective, or General Elective

The AP Chemistry course provides students with a foundation to support future advanced course work in chemistry. Through inquiry-based learning, students develop critical thinking and reasoning skills. Students cultivate their understanding of chemistry and science practices as they explore topics such as atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium.

### **AP Environmental Science (5102ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [Biology I](#), [Chemistry I](#), and [Algebra II](#) or [Integrated Math III](#)

Fulfills Grad Requirement: Science, Science Elective, or General Elective

This course is designed to acquaint students with the physical, ecological, social, biological, and political principles of environmental science. The scientific method, group discussion, and lecture are used to analyze and understand the interrelationships between humans and the natural environment. The course shows how ecological realities and the material desire of humans often clash, leading to environmental degradation and pollution. The course consists of 18 chapters covering the following topics: earth's systems, human and wildlife population dynamics, air and water quality, energy and biogeochemical cycling, renewable and nonrenewable energy, mining and mining technology, waste generation and disposal, global changes in the environment and society – as well as detailed chapters regarding atmospheric energy transfer and weather. Chapters are divided into several subsections, each of which contains text, animations, and laboratory simulations. Three to six fieldtrips annually accompany the material.

### **Biology I (5110ys)**

Grade Level: 9-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: Science, Science Elective, or General Elective

This course is **REQUIRED** for graduation. This science course is open to all students in grades 9-12. Basic science skills, scientific method, study and organizational skills and laboratory techniques will be emphasized. Areas of study include: scientific method, ecology, cell biology, genetics, evolution and natural selection, taxonomy, and plant and animal biology.

### **Biology II (5115sb)**

Grade Level: 10-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Biology I](#)

Fulfills Grad Requirement: Science, Science Elective, or General Elective

This science course is open to students in grades 10-12. Biology II expands on science skills, scientific method, study and organizational skills and laboratory techniques will be emphasized. Areas of study include: scientific method, biochemistry, biotechnology, forensic science and anatomy & physiology; focusing on the integumentary, skeletal, muscular, circulatory, respiratory, digestive and nervous systems.

### **Biomedical Innovations PLTW (5107sb)**

Grade Level: 11-12

Course Length: Semester Block

Credits: 1.00

Pre-Requisite(s): [Medical Interventions PLTW](#)

Fulfills Grad Requirement: Science, Science Elective, or General Elective

In the final course of the PLTW Biomedical Science sequence, students build on the knowledge and skills gained from previous courses to design innovative solutions for the most pressing health challenges of the 21st century. Students address emergency department design, public health concerns, biomedical engineering, clinical medicine and physiology, and forensic autopsy. The independent capstone project includes designing a biomedical innovation to improve the life of living organisms.

### **BioTechnology (5565ss)**

Grade Level: 11-12

Course Length: Semester Skinny

Credits: 0.50

Prerequisite(s): "C" or better in [Biology I](#)

Fulfills Grad Requirement: Science Elective or General Elective

This course is taught in the Agriculture Department. Biotechnology is a course which applies technology to solve biological and agricultural problems. Areas of study will include animal genetics, lab safety and health, Food Science-ES, bioethics and moral issues, DNA studies, genetically modified organisms, cloning and plant tissue culture.

### **Chemistry I (5117sb OR ys)**

Grade Level: 9-12

Course Length: Semester Block/Year

Credits: 1.00

Prerequisite(s): [Biology I](#)

Fulfills Grad Requirement: Science, Science Elective, or General Elective

This course is **REQUIRED** for graduation. This course will introduce the students to the concepts of matter, chemical symbols, chemical formulas, the names of chemicals, conservation of matter and energy, scientific measurement, basic atomic structure, the mole concept, percent composition, chemical reactions, stoichiometry, and solutions.

### **Chemistry II (5119ys)**

Grade Level: 10-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [Chemistry I](#)

Fulfills Grad Requirement: Science, Science Elective, or General Elective

This course reviews many of the concepts discussed in Chemistry I, but much more in depth. It also introduces new concepts associated with atomic structure, chemical periodicity, the behavior of gases, ionic and covalent bonding, water and aqueous systems, reaction rates, equilibrium, thermo chemistry, molecular geometry and intermolecular forces, acid base reactions, electrochemistry, organic chemistry, and redox equations.

### **Food Science-ES (5207ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: Science Elective or General Elective*

This course is taught in the Family and Consumer Science Department. Food Science is the study of the nature of food from the soil or feed lot to the table. Food Science is interdisciplinary involving concepts from biology, physiology, chemistry, nutrition, health, and food preparation. Algebra concepts and writing skills will be enforced in many of the lab experiments.

Food Science is a hands-on course. Experimentation will clarify the concepts covered. The main topics covered include food safety, scientific evaluation, basic food chemistry, sensory perception, essential nutrients, and food related careers. We will also cover food processing, preservation, additives, packaging and development as time permits. This course will assist students in making science relevant to the “real world”.

This course is recognized by both the district and the Wisconsin Department of Education as a science equivalency.

### **Fundamentals of Chemistry (5139ys)**

*Grade Level: 10-12*

*Course Length: Year*

*Credits: 1.00*

*Prerequisite(s): [Biology I](#)*

*Fulfills Grad Requirement: Science, Science Elective, or General Elective*

Students convert measurements, design tables and graphs, create models, and use the scientific method. Students interpret a model of the atom and use the periodic table. They distinguish physical, chemical, and nuclear changes and identify properties of common compounds. They analyze chemical equations. Students relate technical applications to common chemical reactions. Students describe basic biomolecules.

### **Human Body Systems PLTW (5104sb)**

*Grade Level: 11-12*

*Course Length: Semester Block*

*Credits: 1.00*

*Pre-Requisite(s): [Principles of Biomedical Science PLTW](#)*

*Fulfills Grad Requirement: Science, Science Elective, or General Elective*

Students examine the interactions of human body systems as they explore identity, power, movement, protection, and homeostasis. Students design experiments, investigate the structures and functions of the human body, and use data acquisition software to monitor body functions such as muscle movement, reflex and voluntary action, and respiration. Exploring science in action, students build organs and tissues on a skeletal manikin, work through interesting real world cases and often play the roles of biomedical professionals to solve medical mysteries.

### **Medical Interventions PLTW (5106sb)**

*Grade Level: 11-12*

*Course Length: Semester Block*

*Credits: 1.00*

*Pre-Requisite(s): [Human Body Systems PLTW](#)*

*Fulfills Grad Requirement: Science, Science Elective, or General Elective*

Students follow the life of a fictitious family as they investigate how to prevent, diagnose, and treat disease. Students explore how to detect and fight infection; screen and evaluate the code in human DNA; evaluate cancer treatment options; and prevail when the organs of the body begin to fail. Through real-world cases, students are exposed to a range of interventions related to immunology, surgery, genetics, pharmacology, medical devices, and diagnostics.

### **Natural Resources (5575ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: Science Elective or General Elective*

This course is taught in the Agriculture Department. Natural Resources is a course for students interested in studying land use, water quality of the river and streams, and learning about the area plant and animal life. Careers in natural resources as well as learning about application of scientific principles to managing natural resources will be emphasized.

### **Physics (5136ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Prerequisite(s): [Algebra II](#) or [Integrated Math III](#), and [Chemistry I](#)

Fulfills Grad Requirement: Science, Science Elective, or General Elective

[Transcribed credit](#) issued from Southwest Technical College

Students will investigate the laws of nature governing objects, their interactions, and energy. Both the scientific concepts and mathematical solutions will be covered. The general topics studied are motion, forces, momentum, energy, work, power, fluids, thermodynamics, and waves. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply to other colleges and technical schools at their discretion.

### **Plant Science (5560ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: Science Elective or General Elective

[Transcribed credit](#) issued from Southwest Technical College

This course is taught in the Agriculture Department. Open to all students this course will make use of the greenhouse and cover such areas as plant growth, research of plants, weed and plant identification, soil types, and plant yields. Lab projects and experiments will give students hands-on approach to plant care and management. Hydroponics will also be covered. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Principles of Biomedical Science PLTW (5103sb)**

Grade Level: 11-12

Course Length: Semester Block

Credits: 1.00

Pre-Requisite(s): [Biology I](#)

Fulfills Grad Requirement: Science, Science Elective, or General Elective

Students investigate various health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They determine the factors that led to the death of a fictional person, and investigate lifestyle choices and medical treatments that might have prolonged the person's life. The activities and projects introduce students to human physiology, medicine, and research processes. This course provides an overview of all the courses in the Biomedical Sciences program and lays the scientific foundation for subsequent courses. While Chemistry is not a prerequisite for this course, it is strongly encouraged for any students that are not highly self-motivated in science.

### **Wildlife and Conservation Management (5551sb)**

Grade Level: 10-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Biology I](#) and [Natural Resources](#)

Fulfills Grad Requirement: Science Elective or General Elective

This course is taught in the Agriculture Department. Open to students who have had Biology and Natural Resources with preference given mainly to upper classmen with an interest in a conservation career. This course covers an ethical look at wildlife management, soil conservation, air and water quality, which includes a variety of lab work and field trips. A close look at the Mississippi River and its connection to people and wildlife will highlight the class.

## SOCIAL STUDIES

### AP Human Geography (5156ys)

Grade Level: 9

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: AP Human Geography

This course is [REQUIRED](#) for graduation. The objectives of Advanced Placement Human Geography are to introduce students to the systematic study of patterns and processes that have shaped human understanding, the use, and alteration of Earth's surface. Students also will employ spatial concepts and landscape analysis to examine human social organizations and its environmental consequences. They will also learn about the methods and tools geographers use in their science and practice. Students will also be able to: Use and reason about maps and spatial data, understand and interpret the implications of associations among phenomena in places, recognize and interpret at different scales the relationships among patterns and processes, define regions and evaluate the regionalization process, and characterize and analyze changing interconnections among places. Course topics include: Introduction to Human Geography, Population, Migration, Local and Popular Culture, Cultural Landscapes, Identity: Race, Ethnicity, Gender and Sexuality, Language, Religion, Political, Physical, and Urban Geography, Development, Agriculture, Industry and Services, The Humanized Environment, and Globalization and the Geography of Networks.

### AP Psychology (5195ys)

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: AP US History or AP Psychology, or General Elective

[Transcribed credit](#) issued from Southwest Technical College

This course is [REQUIRED](#) for graduation. The purpose of the Advanced Placement Course in Psychology is to introduce students to the systematic and scientific study of human behavior and mental processes. Students are exposed to psychological principles, theories and phenomena associated with the major fields of psychology. Students are also expected to learn about the many applications, methods and ethics involved in the practice of psychology. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### AP US Government & Politics (5192ys)

Grade Level: 10

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: US Government and Politics, or General Elective

This course is [REQUIRED](#) for graduation. Advanced Placement (AP) United States Government and Politics will be a yearlong skinny, college level course offered to students WHO WISH TO BE ACADEMICALLY CHALLENGED. Students must have the academic initiative to progress through some material with the instructor acting as facilitator - the course is designed to be more student-centered and somewhat more self-paced. Students will take the AP College Board test in the spring, and their scores on that test will determine eligibility for college credit. Significant online course work will be required for this class. The course is designed to be the equivalent of a 100 level survey of American national government at the college level. In addition the following topics will be emphasized:

- Political opinions, interests, and behaviors
- Political organizations to include political parties, interest groups and mass media
- The institution of government and its role in making and enforcing public policy
- Civil liberties and civil rights
- The examination of primary source material and contemporary news analysis
- The role of state government



### **AP US History (5190ys)**

Grade Level: 11-12

Course Length: Year

Credits: 1.00

Fulfills Grad Requirement: AP US History or AP Psychology, or General Elective

This course is [REQUIRED](#) for graduation. AP United States History is a survey course in American History covering material from 1500 to present day. The main themes of the course are the economic, social, and political developments in U.S. History. The pace and focus of the course are established based on the guidelines of the College Board. The course culminates in a comprehensive national exam. The results of this exam determine the students' eligibility for college credit. Students are required to complete a significant amount of independent reading and writing. Course Objectives: To provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History, to prepare students for intermediate and advanced college courses by making demands upon them equivalent to those made by a full year introductory college course, to improve students' ability to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in both written and oral formats.

### **Civics (5170ss)**

Grade Level: 9-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

The study of Civics will cover the world as a whole with regard to the United States government. A comprehensive study of the political, economic, social, and intellectual developments and processes of the United States political system will be the basis of the class. Specific topics that will be covered are: powers of government, current events, the constitution, the justice system, and the three levels of government: local, state, and federal, political parties, and active citizenship in the community, country, the world and current events. In each topic we will discuss the people, events, social, and cultural development which play an important role in understanding the study of the government of the United States.

### **Holocaust Studies (5183ss)**

Grade Level: 11-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

The upperclassmen course is a symposium of the English and Social Studies departments at Prairie du Chien High School. This course will consider the reality and implications of the Nazi campaign to destroy European Jews from 1933 to 1945. The primary content emphasis for this course pertains to the examination of the events of the Holocaust, the systematic, planned annihilation of European Jews and other groups by Nazi Germany. As a symposium, the course will focus on student study and analysis of primary and secondary documents to make conclusions on this time in history. Content will include, but is not limited to, the examination of twentieth century programs and of twentieth century and twenty-first century genocides, investigation of human behavior during this period, and an understanding of the ramifications of prejudice, racism, and stereotyping.

### **Human Psychology (5180ss)**

Grade Level: 10-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: General Elective

[Transcribed credit](#) issued from Southwest Technical College

Human Psychology is a Social Studies elective. It is intended to provide an overview of the interesting theories, persons, and applications of the field of psychology. We strive in the course to develop a psychological perspective by which to consider daily events. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

### **Introduction to Criminal Justice Studies (7131ss)**

Grade Level: 11-12

Course Length: Semester Skinny

Credits: 0.75

Fulfills Grad Requirement: General Elective

This is a Youth Options course and is **only available to juniors and seniors**. In this course learners will distinguish between the roles and functions of courts with jurisdiction in Wisconsin, differentiate between the roles and functions of federal, state, and local law enforcement agencies; apply professional principles as a law enforcement

officer; determine modern police functions and policies from an historical perspective; identify the role of law enforcement officers in American society; identify the law enforcement policies required by Wisconsin statutes; defend the importance of written agency policies; distinguish between "ministerial" and "discretionary" duties; utilize a decision-making model; identify the characteristics of a good decision maker; describe how professionalism, ethics, and moral standards relate to a law enforcement career; practice a code of behavior that embodies the principles and obligations of the law enforcement code of ethics; incorporate ethical decision making strategies; describe how decisions are made; enhance an officer's critical thinking and police problem solving skills; and apply principles of critical thinking, decision-making, and problem solving.

**Sociology (5185ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

[Transcribed credit](#) issued from Southwest Technical College

Sociology is the scientific study of human social relationships. It shares its concern regarding social behavior with a number of other disciplines including anthropology, history, psychology, economics, political science, and social work. Students will develop a sociological imagination allowing them to consider other ways of life unlike their own. The successful completion of this course will also give transcribed credit to all technical colleges in Wisconsin. This may apply at other colleges and technical schools at their discretion.

## TECHNOLOGY EDUCATION

### **AP Computer Science Principles PLTW (5545ys)**

Grade Level: 10-12

Course length: Year

Credits: 1.00

Prerequisite(s): [Algebra II](#)

Fulfills Grad Requirement: *Mathematics, Math Elective, or General Elective*

Computer Science Principles implements the College Board's 2013 CS Principles framework. Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science. CSP helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, robotics, and simulation. The course aligns with CSTA 3B standards. Students will have the opportunity to take both the PLTW and AP exams at the end of the course.

### **Building Trades (5512sb)**

Grade Level: 11-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Construction Technology](#)

Fulfills Grad Requirement: *Math Elective or General Elective*

This course is designed to give the student hands-on experience in the field of construction. Students will be expected to plan, lay-out, and construct small buildings such as garages and storage sheds along with general home maintenance and remodeling. Some work may be done off campus for the general public. This class will be limited to seven students: if more than seven sign up, past performance in technology education classes and career goals will determine who will be selected.

### **Construction Technology (5507ss)**

Grade Level: 10-12

Course Length: Semester Skinny

Credits: 0.50

Fulfills Grad Requirement: *Math Elective or General Elective*

This course will utilize Auto Cad Drafting to design a home floor plan and elevation drawings. A scale model of your design will then be constructed. In addition, students will put to use the tools and building techniques of the modern residential carpenter. Some of the units of instruction will include foundations, framing, roof systems, electrical wiring, and plumbing.

### **Civil Engineering and Architecture PLTW (5542sb)**

Grade Level: 10-12

Course length: Semester Block

Credits: 1.00

Prerequisite(s): [Principles of Engineering PLTW](#)

Fulfills Grad Requirement: *Math Elective or General Elective*

*This course is offered every other year.* This course provides an overview of the fields of Civil Engineering and Architecture, while emphasizing the interrelationship and dependence of both fields on each other. Students use state of the art software to solve real world problems and communicate solutions to hands-on projects and activities. This course covers topics such as site planning, design, and project documentation and presentation. This course will utilize Auto Cad Drafting to design a home floor plan and elevation drawings. A scale model of your design will then be constructed. In addition, students will put to use the tools and building techniques of the modern residential carpenter. Some of the units of instruction will include foundations, framing, roof systems, electrical wiring, and plumbing.

### **Industrial Enterprise (5514sb)**

Grade Level: 10-12

Course Length: Semester Block

Credits: 1.00

Prerequisite(s): [Woods I](#)

Fulfills Grad Requirement: *Math Elective or General Elective*

This course will cover all aspects of how a business functions on a day to day basis. We will actually create a small business from scratch over the course of the semester. Areas we will cover include design, marketing, engineering, production, quality control, sales, and finance management.

### **Introduction to Engineer Design PLTW (5540ys)**

*Grade Level: 9-10*

*Course Length: Year*

*Credits: 1.00*

*Fulfills Grad Requirement: Math Elective or General Elective*

This course emphasizes the development of a design. Students use computer software to produce, analyze, and evaluate models of projects and/or solutions. Students will study the design concepts of form and function. They will use state of the art technology to translate conceptual design into reproductive products.

### **Modern Manufacturing Principles (5509ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

This course will explore the world of modern manufacturing by giving students firsthand experience with the technical side of the manufacturing process. Such topics will include the modern uses of robotics, automation, hydraulics, pneumatics, 3D printing, electricity and electronics. Course content will focus on how these systems work and give practice of how to diagnose problems and work to resolve them. This class is geared toward students wanting to be more of a technician instead of an engineer.

### **Principles of Engineering PLTW (5541sb)**

*Grade Level: 10-12*

*Course Length: Semester Block*

*Credits: 1.00*

*Prerequisite(s): [Algebra II](#) or [Integrated Math III](#)*

*Fulfills Grad Requirement: Math Elective or General Elective*

This course is for any student who plans on pursuing a career in engineering or a career as an engineering technician at a university or technical college. This course will expose students to the important concepts involved in engineering. Students will work on real-life case studies that are examples of the type of problems they would be solving in this career. While working on the case studies, students will be implementing acquired math and science skills. This hands-on laboratory course will cover the concepts, principles, skills, techniques, and attitudes for a career in engineering. This course may be used as a math credit.

### **Welding I (5521ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: General Elective*

This course will introduce the welding processes of oxygen/acetylene welding, cutting, brazing, GMAW, SMAW and plasma cutting. The curriculum will be focused on welding shop safety, learning the principles of the aforementioned processes, identifying the characteristics of a strong bead, machine set up, and performing simple weld joints on coupons (scrap metal). Students will be evaluated on written work assigned, lab participation, and lab performance throughout the semester. Emphasis will be based on safety and the basic principles of welding and cutting processes. Students must pass with a C or better semester grade, demonstrate the ability to work safely, responsibly and independently or have instructor approval to be admitted into Welding II.

### **Welding II (5522ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): C or better in [Welding I](#), or instructor approval*

*Fulfills Grad Requirement: General Elective*

This course will review the content of Welding I, but the focus will be on more complex joinery, reading welding plans and blueprints, and completion small metal projects. Students will be evaluated on written work assigned, lab participation, and lab performance throughout the semester. Emphasis will be based on safety, joinery, and welding as practiced in industry and construction.

### **Woods I (5502ss)**

*Grade Level: 9-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Fulfills Grad Requirement: Math Elective or General Elective*

This course is designed to acquaint the students with tools and machinery as well as various wood joints utilized in the wood working industry. The primary emphasis of instruction is based upon the development of skills in using hand tools and power wood working equipment. Students will be required to make projects selected by the instructor. Students will be evaluated on written work assigned, lab participation, and lab performance throughout the semester. A lab fee will be assessed for materials used. Students must pass with a C or better semester grade, demonstrate the ability to work safely, responsibly and independently or have instructor approval to be admitted into Woods II.

### **Woods II (5501ss)**

*Grade Level: 10-12*

*Course Length: Semester Skinny*

*Credits: 0.50*

*Prerequisite(s): C or better in [Woods I](#), or instructor approval*

*Fulfills Grad Requirement: Math Elective or General Elective*

This course is designed to allow students to apply the knowledge and skills gained from taking Woods I. Students will use class time to design and work on independent projects of their choosing. Students may choose to make one large project or several small projects. Students will be evaluated on written work assigned, lab participation, and lab performance throughout the semester. A lab fee will be assessed for materials used. The amount is dependent on the amount of materials used.