

**United Township High School  
District No. 30**

**COURSE PLANNING GUIDE  
2017-2018**



*"Achieving Excellence Together"*

## NOTICE TO PARENTS AND STUDENTS

Student schedules may be changed for the following reasons:

- Missing class periods
- Errors in course selection
- More than one class in the same period
- Medical reasons
- Balancing class size

Students' schedules **will not** be changed for the following reasons:

- Level change
- Teacher change
- Dropping a class
- Lunch period change
- Work-related issues
- Period change
- Desire to have a study hall during a specific class period
- Change of mind about taking a certain class

United Township High School  
District No. 30  
1275 Avenue of the Cities  
East Moline, IL 61244

Phone: 309-752-1600  
Fax: 309-752-1608  
Website: [uths.net](http://uths.net)

"Achieving Excellence Together"

**Mission Statement**

The mission of United Township High School is to provide a dynamic learning environment that fosters a healthy self concept through academic achievement while preparing students to succeed as responsible citizens in a technologically advanced global society. (Adopted by the Board of Education 09/12/2005.)

**Nondiscrimination**

It is the policy of United Township High School District 30 not to discriminate on the basis of race, color, national origin, age, gender, religion or disability in its educational and extracurricular programs and activities or its employment policies as required by Illinois Public Act 79-597, Title IX and Section 504 of the 1972 Education Amendments. Inquiries regarding compliance with the Illinois Sex Equity Rules, the Title IX Regulation and Section 504 may be directed to the Superintendent at 1275 Avenue of the Cities, East Moline, Illinois 61244, (309) 752-1611.

**No discriminacion**

Es reglamento de United Township High School Distrito 30 no discriminar en el base de raza, color, origen nacional, edad, genero, religion, o discapacidad en sus programas educativos, extracurriculares, actividades, o reglamento de empleados en la manera de requisito por el Acta publico de Illinois 79-597, titulo IX (Illinois Public Act 79-557, Title IX) y la seccion 504 (Section 504) de las enmiendas educativas de 1972 (Education Amendments). Preguntas sobre el acatamiento de las reglas de Igualdad de Sexos, titulo IX reglamento y seccion 504 podran ser dirigidas al Director, 1275 Avenue of the Cities, East Moline IL 61244, (309) 752-1611.

**Board of Education**

Sue A. Ickes, President  
Dr. Harry R. Arvanis, Vice-President  
Wendy Verschoore, Secretary  
Janice C. Allison  
Susan M. Koska  
Larry Morgensen  
Donald J. Sproul

\* \* \* \* \*

**Administration**

Dr. Jay C. Morrow  
Superintendent  
Carl E. Johnson  
Principal  
Angie Ashcraft  
Special Services Director  
Tracy DeClerck  
Comptroller  
Kai Killam  
Dean of Students  
Shannon Miller  
Director of Curriculum and Instruction  
Mark Pustelnik  
Athletics/Activities Director  
Anthony Ragona  
Assistant Principal  
Larry Shimmin  
Area Career Center Director  
Erin Terstriep  
United Township Education Center Director  
Jennifer Webster  
Assistant Principal  
Abel Zertuche  
Dean of Students

**Guidance Center** (Office opens at 7:00 a.m.)

Abby Demory, Counselor (A-EI) .....752-1670  
Jon-Mychel Nelson, Counselor (Em-Lo) .....752-1644  
Stacey Drish, Counselor (Lu-Rod) .....752-1673  
Patrick Green, Counselor (Roe-Z).....752-1643  
Holly Schneider, Secretary.....752-1640  
Marcy Johnson, Registrar .....752-1650

**Area Career Center** (Office opens at 6:45 a.m.)

Larry Shimmin, Director .....752-1691  
Nancy Chadwick, Secretary .....752-1691

## TABLE OF CONTENTS

**Notice to Parents and Students Concerning Student Schedule Changes** ..... Inside front cover

### General Information

Introduction .....	1
Graduation Requirements .....	1
Units of Credit .....	1
Student Grade Level Classifications .....	2
Course Load	
Required Load.....	2
Typical Course Registration Patterns .....	2
Curricula.....	2
Weighting Student Classroom Performance .....	2
Class Ranks .....	3
Quality Points .....	3
Grade Point Average.....	3
How to Use this Course Planning Guide .....	3-4
Course Selection.....	4
Physical Education Exemption.....	4
Course Patterns .....	4
College Preparation .....	4-5
Career and Technical Education (CTE) / Programs of Study .....	6
Dual Credit/Dual Enrollment Courses .....	6
Articulated Credit/Articulated Courses .....	7
Career Pathways.....	7-8

### Course Descriptions

Area Career Center .....	9-16
Business Education.....	17-18
Driver Education.....	19
English .....	20-23
Family and Consumer Sciences.....	24-26
Fine Arts.....	27-30
Health Education .....	31
Health Occupations.....	31
Mathematics.....	32-34
Modern Languages .....	35-36
Physical Education.....	37
Pre-Engineering/Engineering/Engineering Technology.....	38
Reading.....	39
Science .....	40-41
Social Studies .....	42-44
Special Education .....	45-48
Technology Education.....	49-51

**Four-Year Planner/Student Grade Level Classifications** ..... Inside back cover

## INTRODUCTION

United Township High School offers its students the opportunities to learn basic skills, develop career competencies and develop the skills and understanding necessary for success in college.

The instructional program of the high school is directed toward meeting the following goals:

- To provide opportunities for students to prepare themselves to be contributing members of a changing technological society.
- To provide experiences that will enable students to establish and work toward goals at rates determined by their levels of competency.
- To provide a range of learning resources to help students achieve academic competency equal to their abilities.

As you study these goals, you are probably asking, "How do I select courses to fit my interests, abilities and goals? Who will help me?" This guide will help you and your parents plan a course of study to fit your interests, abilities and goals. You should also seek help and advice from your teachers and your counselor.

## GRADUATION REQUIREMENTS

To graduate from United Township High School, students must earn a minimum of twenty-three (23) units of credit in the following manner:

English .....	4.0 units of credit
World History .....	1.0 unit of credit
U. S. History .....	1.0 unit of credit
Government .....	0.5 units of credit
Mathematics.....	3.0 units of credit
Science .....	2.0 units of credit
Health .....	0.5 units of credit
Consumer Education .....	0.5 units of credit
*Driver Education .....	0.25 units of credit
**Physical Education.....	3.25 units of credit
***Electives .....	7.0 units of credit

\*Students must enroll in Driver Education (per Illinois School Code) but are not required to pass the course in order to meet UTHS graduation requirements. This course is open only to students who have received a passing grade in at least eight courses during the previous two semesters or who have received a waiver from the superintendent. The quarter that students take the Driver Education course is based on their birth dates.

\*\*All students must enroll in Physical Education for each quarter except while enrolled in Health or Driver Education. Students must complete thirteen quarters of Physical Education and must pass a minimum of eleven quarters, including the final quarter taken.

\*\*\*Of the elective credit units required, at least one unit of credit must be earned in one of the following areas: music, art, foreign language or vocational/career education.

**Graduation requirements are subject to change due to changes in the Illinois School Code and/or UTHS Board of Education policy.**

## UNITS OF CREDIT

One-semester courses meet daily for one period, five times per week and earn 0.5 units of credit.

One-year courses meet daily for one period, five times per week and earn 1.0 unit of credit. Most Area Career Center courses meet for two periods per day and earn 2.5 units of credit.

A maximum of five units of credit in music (from band and chorus) may be applied towards graduation.

**Student Grade Level Classifications**

Freshman ..... First Year  
Sophomore ..... Second Year  
Junior ..... Third Year  
Senior ..... Fourth Year

**COURSE LOAD**

**Required Load**

Students are required to carry 3.0 units of credit each semester.

**Typical Course Registration Patterns**

**Freshman**

English 1  
Mathematics  
Science  
Physical Education (2 quarters)  
Health (1 semester)  
2 or 3 Electives

**Sophomore**

English 2  
Mathematics  
Science  
World History  
Physical Education (3 quarters)  
\*Driver Education (1 quarter)  
1 or 2 Electives

**Junior**

English 3  
Mathematics  
U.S. History  
Physical Education  
3 or 4 Electives

**Senior**

English 4  
U.S. Government/Civics (1 semester)  
Physical Education  
Consumer Education  
3 or 4 Electives

\*The quarter in which students take the Driver Education course is based on their birth dates.

**CURRICULA**

As a comprehensive high school, United Township High School must meet the needs of many kinds of students. Some students need to prepare for enrollment in four-year colleges or universities while others need to develop career skills that permit entry-level employment upon graduation from high school or provide the basis for further career study and still others need to build minimal reading, composition and computational skills in order to become productive employees.

**College Prep (CP)** courses, which include accelerated and gifted courses, are designed for students who wish to prepare for enrollment in a four-year college or university or a two-year college transfer program leading to an eventual university enrollment.

**Partnerships for College and Career Success (PCCS)** courses represent a program of study that combines college prep and career and technical course work with a technical concentration. These courses are designed to provide students with strong academic and technical skills plus the workplace process skills identified by business and industry as important in future careers.

**Career and Technical Education (CTE)** courses are designed for students who wish to prepare for careers requiring further study or training through apprenticeships, the military, technical schools or community colleges.

**Basic Skills** courses are designed for students who must build reading, composition and computational skills as well as vocational competencies in order to become productive employees.

**WEIGHTING STUDENT CLASSROOM PERFORMANCE**

The Board of Education of United Township High School has adopted a method of weighting students' classroom performance. This weighting system will be used to determine each student's rank in class.

## Class Ranks

- are determined at the end of each semester.
- are determined for each class (senior, junior, sophomore, and freshman).
- use the student's final semester grades by converting the grades to quality points. The student whose sum of quality points is the highest is ranked number one; the student whose sum of quality points is the second highest is ranked number two and so on until all students have been ranked within a class.
- are based on six classes per semester. Students carrying a seventh class must identify one elective class to receive zero quality points. This class will **not** be used to calculate class rank; however, this class will generate graduation credits and will be used to calculate grade point average.
- are affected by weighting scale of the courses taken. While most courses are weighted on a 4.0 scale, courses specifically listed will carry a 4.5 or a 5.0 quality point weighting.
- are based on a maximum of five "weighted" classes.

Senior graduation speakers are determined by class rank at the end of seven semesters. The class valedictorian and salutatorian are students ranked first and second respectively after eight semesters. Remember, students who have the greatest opportunities to rank at the top of their class will be those who enroll in the maximum number of weighted courses possible, study diligently, complete all assignments and earn the highest grades.

To compute a student's rank in class, two groups of courses have been identified to carry special quality point weighting scales. These courses are listed below.

## Quality Points

**5.0 Scale of Quality Points:** The following courses will carry weighted quality points based on a 5.0 point scale. (A=5.0 B=4.0 C=3.0 D=2.0 F=0)

Accelerated Algebra 2	Accelerated Chemistry
Accelerated Geometry	Accelerated Physics
Accelerated Precalculus/Trig	Advanced Placement Biology
Advanced Placement Calculus	Advanced Placement Chemistry
Advanced Placement Spanish 4	Advanced Placement Studio Art
Accelerated French 4	World Studies
Accelerated Biology	American Studies
	Western Civilization

**4.5 Scale of Quality Points:** The following courses will carry weighted quality points based on a 4.5 point scale. (A=4.5 B=3.5 C=2.5 D=1.5 F=0)

College Prep Accounting 1	College Prep U.S. History
College Prep Accounting 2	College Prep Chemistry
College Prep English 1	College Prep Biology
College Prep English 2	College Prep Physics
College Prep English 3	College Prep Biotechnology
College Prep English 4	College Prep Algebra
College Prep French 2, 3 and 4	College Prep Geometry
College Prep Spanish 2, 3 and 4	College Prep Algebra 2/Trig
College Prep Spanish Native Speakers 2	College Prep Precalculus
College Prep World History	College Prep Applied Statistics
	College Prep Symphonic Band (Grades 10, 11, 12)

**4.0 Scale of Quality Points:** All other courses will carry quality points based on a 4.0 point scale. (A=4.0 B=3.0 C=2.0 D=1.0 F=0)

## Grade Point Average

A student's grade point average will continue to be reported on a 4.0 scale. This scale is used and recognized by most high schools, colleges and universities. Grade point average is also used to determine the semester honor roll and other awards and recognitions. A student's unweighted and weighted grade point average will be reported on their official transcript.

## HOW TO USE THIS COURSE PLANNING GUIDE

On the pages that follow, you will find information about all UTHS courses. This information is divided and organized by department; that is, to find information about chemistry you will need to turn to the section of this guide devoted to science (see Table of Contents for exact page reference). In each department's section you will find a chart of courses that provides an overview of that department's offerings as well as important information about credits followed by a description of each course that includes an estimate of extra student costs, if any, that are above and beyond those for such usual classroom materials as pens, pencils and notebooks.

Before turning to department sections, read carefully the following definitions and explanations of the departmental course charts.

- Subject column lists all courses offered by the department.
- Course length column identifies whether a course is a semester course or a full-year course. A full-year course begins with the first semester and concludes at the end of the second semester.
- Grade column indicates, by student classification, the year students are eligible to take the course. For example, a 9 indicates the freshman year; a 10 indicates the sophomore year; an 11 indicates the junior year; and a 12 indicates the senior year.

### **COURSE SELECTION**

For course selections to be in the student's best interest, the school, parents and the student must share responsibility. The following guidelines describe the roles of all who are involved in the course selection process.

Based upon scores earned from standardized tests, records of past academic achievement and teacher recommendations, the assistant superintendent for curriculum/instruction will recommend specific placements in courses. Parents will be notified of these recommendations and will, as always, retain the right to confirm or reject the suggestions of the school.

Students, along with their counselors, will choose electives to complete their yearly programs. Students are free to choose electives from among all UTHS College Prep courses (with the exception of courses for gifted students) and Vocational/Career courses. Some restrictions apply to enrollment in courses designated solely as Basic Skills. Parents will be notified of the course choices their students have made and may confirm or reject the decisions.

The ultimate objective is the selection of courses that are most appropriate in terms of the needs of each student. If a class level is deemed inappropriate, the change must be approved by the administrator. After courses are scheduled, classes may not be dropped or substituted without administrative approval.

### **PHYSICAL EDUCATION EXEMPTION**

PE exemptions may be granted to junior and senior varsity athletes. A study hall may be taken for one quarter during the athletic season. A request must be signed and returned. An exemption does not change the total credits needed for graduation. A maximum of five courses may be taken for weighted credit. Contact your counselor for details.

### **COURSE PATTERNS**

While the process of choosing a career is long, complicated and often frustrating, students at United Township High School have the opportunity to explore a wide variety of courses and activities that may help make career decisions easier.

For high school students in the 21st Century, choosing and completing a course sequence is critical to their future careers and personal successes. The economy of the United States has transformed into an advanced technical information-based economy. What this means for students is that a high school education is not enough for the careers that will offer the greatest opportunity in their lifetimes. Students must make a real choice between a course sequence that leads to professional education (college prep) or technical education. Students may wish to use the advice of counselors, teachers and parents to choose a course sequence and career choice that are best suited to their interests and abilities.

### **COLLEGE PREPARATION**

Colleges and universities vary in their requirements for admission. They demand certain high school courses, minimum college admission test scores and class rank levels. Most require that students earn a minimum number of credits in certain course areas. **Students should always verify admission requirements in current college and university publications.** If questions remain unanswered, students should request additional information, in writing, from the admissions offices of the colleges and universities in question.

The Illinois State Board of Higher Education has approved the following minimum preparation and college/university admission requirements for students who plan to enroll in an Illinois public college or in a transfer program at a community college:

- Four years of English (communication skills and literature)
- Three years of social studies (history and government)
- Three years of mathematics (introductory through advanced algebra, geometry, and trigonometry)
- Three years of laboratory sciences
- Two years of electives in foreign language, music, art or vocational/career education.

College-bound student athletes who wish to enter and compete in Division I or Division II institutions throughout the United States must meet academic eligibility requirements which are set by the NCAA. In general, there are two considerations: 1) successful completion of a core curriculum of at least sixteen academic specifically defined course units; and 2) meeting a qualifier index that considers the core GPA plus ACT scores. These criteria may be revised. To have questions answered, review the most current information about eligibility, recruiting regulations or to register with the clearinghouse, contact [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net).

Following are recommendations of courses that currently meet most college and university entrance requirements.

1. For the student interested in scientific or technical fields such as medicine, engineering, etc.
  - a. English: 4 units of credit in courses designated as College Prep
  - b. Mathematics: 4 units of credit in courses designated as College Prep or Accelerated
  - c. Science: 4 units of credit that include Advanced Placement Biology, Advanced Placement Chemistry and College Prep Physics or Accelerated Physics
  - d. Social Studies: 2-1/2 units of credit in courses designated as College Prep plus electives in social studies courses
  - e. Modern Language: at least 2 units of credit in the same foreign language
  - f. Engineering students should consider enrollment in Drafting, Computer Technology A, Introduction to Engineering Design and Principles of Engineering.
  
2. For the student interested in non-scientific fields such as business, education, social work, fine arts, humanities, etc.
  - a. English: at least 4 units of credit in courses designated as College Prep
  - b. Mathematics: at least 3 units of credit including Algebra, Geometry and Algebra 2
  - c. Science: at least 3 units of credit in such laboratory sciences as College Prep Biology, College Prep Chemistry, College Prep Physics or College Prep Biotech
  - d. Social Studies: in addition to the required 2-1/2 units of credit in courses designated as College Prep, electives in Economics, Psychology, or Sociology
  - e. Computer Technology A, Computer Technology B

Academically-able students should give careful consideration to enrolling in sequences of courses that are designed to prepare them to earn sufficient credits to qualify for up to sophomore standing in many colleges and universities. Currently, United Township High School students can prepare themselves to complete Advanced Placement tests in English, literature, composition, American history, European history, calculus, biology, chemistry, studio art (in a variety of media), and Spanish.

1. For the student interested in advanced placement in English
  - a. Grade Nine: College Prep English 1
  - b. Grade Ten: College Prep English 2 or World Studies
  - c. Grade Eleven: College Prep English 3 or American Studies
  - d. Grade Twelve: College Prep English 4 or Western Civilization
  
2. For the student interested in advanced placement in history
  - a. Grade Ten: College Prep World History or World Studies
  - b. Grade Eleven: College Prep U.S. History or American Studies
  - c. Grade Twelve: College Prep U.S. Government/Civics or Western Civilization
  
3. For the student interested in advanced placement in mathematics
  - a. Grade Nine: Accelerated Algebra 2
  - b. Grade Ten: Accelerated Geometry
  - c. Grade Eleven: Accelerated Precalculus/Trig
  - d. Grade Twelve: Accelerated Advanced Placement Calculus
  
4. For the student interested in advanced placement in science
  - a. Grade Nine: Accelerated Biology
  - b. Grade Ten: Accelerated Chemistry
  - c. Grade Eleven: Accelerated Advanced Placement Biology or Advanced Placement Chemistry and Accelerated Physics
  - d. Grade Twelve: Accelerated Advanced Placement Biology or Advanced Placement Chemistry
  
5. For the student interested in advanced placement in studio art
  - a. Grades Nine through Twelve: two semesters of Art
  - b. Grades Eleven and Twelve: two years in Advanced Placement Art or teacher's discretion

## CAREER AND TECHNICAL EDUCATION (CTE)

### PROGRAMS OF STUDY

The Carl D. Perkins Career and Technical Education Act of 2006 established the legislative framework for career and technical education for the United States. Perkins IV, as it is commonly referred to, requires the development and implementation of CTE Programs of Study. These Programs of Study are required to:

- incorporate secondary education and postsecondary education elements,
- include academic and career and technical content in a coordinated, non-duplicative progression of courses,
- and lead to an industry-recognized credential or certificate at the postsecondary level, or an associate or bachelor's degree.

Programs of Study build upon existing CTE initiatives including career academies, career clusters, and career pathways, and emphasize articulation and dual credit opportunities for students.

### DUAL CREDIT/ DUAL ENROLLMENT

The following courses offer community college credit through a dual enrollment/dual credit agreement. Dual enrollment/dual credit courses are taught by a UTHS instructor who is an adjunct instructor for Black Hawk College. Students who successfully complete these courses may receive dual credit through Black Hawk College towards the completion of an associate degree in a transfer program. For more information, students should contact their counselor or the Area Career Center office.

#### Dual Credit/Dual Enrollment Courses

UTHS Course Name	BHC Course Name	BHC Course #	Grade	Length of Course	Credits
ACC ECHO 1	Nursing Assistant	NA 100	11 or 12	Full Year	8 credit hours
ACC ECHO 2	Medical Terminology	Bio 150	12	Full Year	3 credit hours
ACC Welding 1	Intro to Arc Welding 1	WLD 101 WLD 102 WLD 103	11 or 12	Full Year	0.5 credit hours 0.5 credit hours 2.0 credit hours
ACC Welding 2	Arc Welding 2	WLD 117 WLD 118 WLD 105	12	Full Year	2.0 credit hours 1.0 credit hours 2.0 credit hours
College Prep English 4 (1 <sup>st</sup> sem)	*English Composition 1	Eng 101	12	One Semester	3 credit hours
College Prep English 4(2 <sup>nd</sup> sem)	*English Composition 2	Eng 102	12	One Semester	3 credit hours
Advanced Speech	*Principles of Speech Communication	Spec 101	11 or 12	Semester	3 credit hours
Music Appreciation	*Music Appreciation	Musc 154	11 or 12	One Semester	3 credit hours
U.S. Government/ Civics	*American & National Gov't	PolS 251	12	One Semester	3 credit hours
College Prep Spanish 4	*Intermediate Spanish 1	SPAN 201	11 or 12	Full Year	4 credit hours

**\*Dual credit available; ask your counselor for details.**

**Black Hawk College charges a fee for dual credit courses. This fee must be paid to Black Hawk College before the student will be awarded college credit.**

## ARTICULATED CREDIT

The following courses offer community college credit through an articulation agreement. Students who successfully complete these courses may receive articulated credit through Black Hawk College towards the completion of a certificate program. For more information, students should contact the Area Career Center office or see their counselor.

### Articulated Courses

- Early Childhood 1 and Early Childhood 2
- Child Development / Parenting
- Law and Public Safety 1 and 2

## CAREER PATHWAYS

Following are recommendations of Career Technical Education and elective courses that will provide opportunities for students to explore selected occupations and career areas.

1. Accounting
  - a. Grade Nine: Introduction to Business/All About Money/Computer Technology A
  - b. Grade Ten: Recordkeeping/Computer Technology B
  - c. Grade Eleven: CP Accounting 1/ACC Advanced Computer Applications
  - d. Grade Twelve: Business Law/CP Accounting 2/Interrelated Co-op/Applied Economics
2. Administrative/Information Assistant
  - a. Grade Nine: Introduction to Business/All About Money/Computer Technology A
  - b. Grade Ten: Computer Technology B
  - c. Grade Eleven: ACC Advanced Computer Applications
  - d. Grade Twelve: Interrelated Co-op
3. Architectural or Mechanical Drafting
  - a. Grade Nine: Introduction to Technology & Engineering 1 and 2/Introduction to Engineering Design
  - b. Grade Ten: Drafting 1/Art elective (Design, Commercial Art)/Principles of Engineering
  - c. Grade Eleven: ACC Design and Drafting 1/Art elective (Design, Commercial Art)
  - d. Grade Twelve: ACC Design and Drafting 2/Art elective (Design, Commercial Art)/Engineering Design and Development
4. Auto Body
  - a. Grade Nine: Introduction to Technology & Engineering 1 and 2
  - b. Grade Ten: Basic Auto/Home Repair/Welding 1
  - c. Grade Eleven: ACC Auto Body 1
  - d. Grade Twelve: ACC Auto Body 2
5. Auto/Diesel Mechanics
  - a. Grade Nine: Introduction to Technology & Engineering 1 and 2
  - b. Grade Ten: Basic Auto/Home Repair/Welding 1
  - c. Grade Eleven: ACC Auto Mechanics 1
  - d. Grade Twelve: ACC Auto Mechanics 2
6. Building and Construction Trades
  - a. Grade Nine: Introduction to Technology & Engineering 1 and 2
  - b. Grade Ten: Drafting 1/Woodworking 1
  - c. Grade Eleven: ACC Building Trades 1/ACC Woodworking Trades 1/Advanced Woodworking Production
  - d. Grade Twelve: ACC Building Trades 2/ACC Woodworking Trades 2/Advanced Woodworking Production
7. Child and Day Care Occupations
  - a. Grade Nine: Exploring Foods and Exploring Fashions
  - b. Grade Ten: Child Development and/or Parenting
  - c. Grade Eleven: ACC Early Childhood 1
  - d. Grade Twelve: ACC Early Childhood 2

8. Computer Integrated Machining
  - a. Grade Nine: Introduction to Technology & Engineering 1 and 2/Introduction to Engineering Design
  - b. Grade Ten: Principles of Engineering/ Metalworking Technology 1 and 2
  - c. Grade Eleven: ACC Manufacturing Technology 1
  - d. Grade Twelve: ACC Manufacturing Technology 2
  
9. Fire Science/Fire Fighting
  - a. Grade Nine: Introduction to Technology & Engineering 1 and 2
  - b. Grade Ten: Computer Technology A/Computer Technology B
  - c. Grade Eleven: ACC Fire Science/Fire Fighting 1
  - d. Grade Twelve: ACC Emergency Responder/Fire Fighting 2
  
10. Food Service/Culinary Arts Occupations
  - a. Grade Nine: Exploring Foods/Exploring Fashions
  - b. Grade Ten: Foods 1 and Foods 2
  - c. Grade Eleven: ACC Interrelated Co-op 1
  - d. Grade Twelve: ACC Interrelated Co-op 2
  
11. Graphic Arts
  - a. Grade Nine: Introduction to Technology & Engineering 1 and 2
  - b. Grade Ten: Art elective (Design, Commercial Art) /Drafting 1
  - c. Grade Eleven: ACC Graphic Arts 1/Art elective (Design, Commercial Art)/Drafting 2
  - d. Grade Twelve: ACC Graphic Arts 2
  
12. Health Occupations
  - a. Grade Nine: Introduction to Health Occupations 1/Biology
  - b. Grade Ten: Introduction to Health Occupations 2/Chemistry
  - c. Grade Eleven: ACC Extended Campus Health Occupations (ECHO) 1
  - d. Grade Twelve: ACC Extended Campus Health Occupations (ECHO) 2/Interrelated Co-op
  
13. Interactive Media
  - a. Grade Nine: Computer Technology A and B
  - b. Grade Ten: Introduction to Computer and Interactive Game Programming
  - c. Grade Eleven: Web Page Design
  - d. Grade Twelve: ACC Advanced Computer Applications/ACC Web Page Design 2
  
14. Law and Public Safety
  - a. Grade Nine: Introduction to Technology & Engineering 1 and 2
  - b. Grade Ten: Computer Technology B
  - c. Grade Eleven: ACC Law and Public Safety 1
  - d. Grade Twelve: ACC Law and Public Safety 2
  
15. Pre-Engineering/Engineering Design
  - a. Grade Nine: Introduction to Engineering Design (IED)
  - b. Grade Ten: Principles of Engineering (POE)
  - c. Grade Eleven: ACC Manufacturing Technology 1
  - d. Grade Twelve: Engineering Design and Development (EDD)/ACC Manufacturing Technology 2
  
16. Welding
  - a. Grade Nine: Introduction to Technology & Engineering 1 and 2
  - b. Grade Ten: Welding 1/Metalworking Technology 1 and 2
  - c. Grade Eleven: ACC Welding 1/Welding 2
  - d. Grade Twelve: ACC Welding 2

## AREA CAREER CENTER

Course #.....	Course Name .....	Length .....	Grade(s) .....
536V.....	ACC Barbering 1 (19102A001).....	Full Year .....	11 12
537V.....	ACC Barbering 2 (19102A002).....	Full Year .....	12
556V.....	ACC Advanced Computer Applications (10005A002) .....	Full Year .....	11 12
542V.....	ACC Auto Body 1 (20116A001).....	Full Year .....	11 12
543V.....	ACC Auto Body 2 (20116A002).....	Full Year .....	12
544V.....	ACC Auto Mechanics 1 (20104A001).....	Full Year .....	11 12
545V.....	ACC Auto Mechanics 2 (20104A002).....	Full Year .....	12
550V.....	ACC Building Trades 1 (17002A001) .....	Full Year .....	11 12
551V.....	ACC Building Trades 2 (17002A002) .....	Full Year .....	12
552V.....	ACC Early Childhood 1 (19054A001).....	Full Year .....	11 12
555V.....	ACC Early Childhood 2 (19055A001).....	Full Year .....	12
554V.....	ACC Cosmetology (19101A001) .....	Full Year .....	12
560V.....	ACC Design and Drafting 1 (21103A001/21106A001) .....	Full Year .....	11 12
561V.....	ACC Design and Drafting 2 (21103A002/21106A002) .....	Full Year .....	12
538V.....	ACC Extended Campus Health Occ 1 (ECHO) (14051A001).....	Full Year .....	11 12
539V.....	ACC Ext Campus Health Occ 2 (ECHO)(14154A001/14002A002) .....	Full Year .....	12
597V.....	ACC Fire Science/Fire Fighting I1 (15152A001).....	Full Year .....	11 12
598V.....	ACC Emergency Responder/Fire Fighting 2 .....	Full Year .....	12
	(14055A001/15152A002)		
564V.....	ACC Graphic Arts 1 (11154A001) .....	Full Year .....	11 12
565V.....	ACC Graphic Arts 2 (11154A002) .....	Full Year .....	12
580V.....	ACC Interrelated Co-op Education 1 (22153A001).....	Full Year .....	11 12
581V.....	ACC Interrelated Co-op Education 2 (Z402).....	Full Year .....	12
582V.....	ACC Law and Public Safety 1 (15051A003).....	Full Year .....	11 12
583V.....	ACC Law and Public Safety 2 (15051A004).....	Full Year .....	12
573V.....	ACC Manufacturing Technology 1 (13055A001) .....	Full Year .....	11
574V.....	ACC Manufacturing Technology 2 (13055A002) .....	Full Year .....	12
577V.....	ACC Web Page Design 2 (10201A002) .....	Full Year .....	11 12
570V.....	ACC Welding 1 (13207A001) .....	Full Year .....	11 12
571V.....	ACC Welding 2 (13207A002) .....	Full Year .....	12
548V.....	ACC Woodworking Trades 1 (17007A001) .....	Full Year .....	11 12
549V.....	ACC Woodworking Trades 2 (17007A002) .....	Full Year .....	12

### Pre-Engineering / Engineering Courses

Descriptions for the following Project Lead the Way courses are found in the Pre-Engineering/Engineering section of this guide.

515.....	Principles of Engineering (POE) (21004A001) .....	Full Year .....	9 10
514.....	Introduction to Engineering Design (IED) (21006A001).....	Full Year .....	9 10 11
575.....	Engineering Design and Development (EDD) (21007A002).....	Full Year .....	11 12

### Technology Education Courses

Descriptions for the following Technology Education courses are found in the Technology Education section of this guide.

510.....	Introduction to Technology & Engineering 1 .....	Semester .....	9 10
511.....	Introduction to Technology & Engineering 2 .....	Semester .....	9 10
502.....	Drafting 1 (21102A001) .....	Semester .....	10 11 12
503.....	Drafting 2 (21103A001/21106A001) .....	Full Year .....	11 12
517.....	Graphic Arts (11002A001).....	Semester .....	10
519.....	Graphic Screen Printing (11002A001).....	Semester .....	9 10
521.....	Metalworking Technology 1 (13203A005) .....	Semester .....	10 11 12
522.....	Metalworking Technology 2 (13203A006) .....	Semester .....	11 12
532.....	Welding 1 (13207A001).....	Semester .....	10 11 12
533.....	Welding 2 (13207A002).....	Full Year .....	11 12
535.....	Woodworking 1 (13052A001, Prod. Tech. B) .....	Semester .....	10 11 12
534.....	Advanced Woodworking Production (17007A001) .....	Full Year .....	11 12
508.....	Basic Auto/Home Repair (20001A001, Transp. Tech. B) .....	Semester .....	10 11 12

## AREA CAREER CENTER

### ACC ADVANCED COMPUTER APPLICATIONS (556V)

Grades 11 12                      Credits 1.0                      Full Year Course                      Fees: \$6 per semester

Prerequisites: Computer Technology A and Computer Technology B strongly recommended.

**Course Description:** This is a one-period course that meets for one full year. It integrates computer technology, decision-making and problem-solving skills. Students will exit with skills needed for success in college and/or the workplace. Areas of instruction may include: Multi-media, Web tools, presentation skills, on-line research, Desktop Publishing, layout and design techniques, software integration, advanced applications and future technology trends. Instructional strategies may include: Project-based inquiry, various computer/technology applications, teacher demonstrations, collaborative instruction and peer teaching. Emphasis will be on developing 21st Century technology and interpersonal skills. Inquire-based learning will encourage students to define, research, evaluate and develop solutions to problems that reflect current business issues. Software products will include: Microsoft Office, Google docs, Adobe InDesign, Photoshop and Open Office applications.

### ACC AUTO BODY 1 (542V)

Grades 11 12                      Credits 2.5                      Full Year Course                      Fees: \$5 per semester  
\$3 safety glasses  
\$7 leather gloves  
Cotton coveralls to be purchased by student

Prerequisites: None

**Course Description:** This course provides learning experiences designed to allow students to gain knowledge and skills in repairing automotive bodies and fenders. Planned learning activities in this course are balanced to allow students to become knowledgeable in the fundamental aspects of auto body repair methods and techniques, and to develop practical skills in the basic operations required to prepare the automobile for final paint application. Instruction emphasizes safety principles and practices, hazardous materials, auto body nomenclature, function of individual components, the use of parts manuals, the identification of replacement parts, the use of auto body fillers, the use of plastic/fiberglass fillers and special body repair tools, refinishing problems, and paint preparation procedures. Practical activities relate to removing and installing body panels, trim, and glass; straightening by using hammers, bucks, and jacks; and smoothing by filing, grinding, and using fillers. Students also learn to prime the area to be painted and prepare the surface for final paint application. These experiences and skills are important for all automotive-related finishes.

### ACC AUTO BODY 2 (543V)

Grade 12                      Credits 2.5                      Full Year Course                      Fees: \$5 per semester  
\$3 safety glasses  
\$7 leather gloves  
Cotton coveralls to be purchased by student

Prerequisites: Successful completion of ACC Auto Body 1 and instructor recommendation.

**Course Description:** This course provides learning experiences designed to further enhance the students' skills in performing more advanced tasks related to automotive body and fender repair. Learning activities in this course emphasize the successful application of the final paint coat and the preparation that precedes it. Emphasis is also placed upon the identification and correction of imperfections and finish buffing of the final coat. Student learning activities include instruction in safety principles and practices, hazardous materials, types and qualities of paints, colors, and refinishing problems; glass standards and installation, special alignment techniques and customer relations. Student practical activities relate to experiences in estimating collision damage costs, preparing customer bills, removing and replacing glass surfaces, selecting paints, repainting minor and major damages, repainting total car body, drying or baking painted surfaces, post-paint cleanup, and post-paint polishing.

### ACC AUTO MECHANICS 1 (544V) (AUTOMOTIVE TECHNICIAN 1)

Grades 11 12                      Credits 2.5                      Full Year Course                      Fees: \$5 per semester  
\$3 safety glasses

Prerequisites: Basic Home and Auto strongly recommended.

**Course Description:** This course introduces students to the intermediate to advanced skills needed to inspect, maintain, and repair automobiles and light trucks that run on gasoline, electricity, or alternative fuels. Instructional units include engine performance, automotive electrical system, integrated computer systems, lubrication, exhaust and emission control, steering and suspension, fuel systems, cooling system, braking, and power train.



## AREA CAREER CENTER

### **ACC EARLY CHILDHOOD 1 (552V) (CARE & LEARNING SERVICES OCCUPATIONS)**

Grades 11 12                      Credits 2.5                      Full Year Course                      Fees: \$10 per semester

Prerequisites: Child Development and/or Parenting recommended. A current physical and TB test are required the first day of class. Art supplies to be purchased by student are optional.

**Course Description:** This course provides students with information and practical experiences needed for the development of competencies related to child/adult care, day care, and other education services occupations. Laboratory experiences, either in a school-based or worksite learning facility, are included throughout the class. Students meet standards in developing programs and assisting with children's and/or adults' activities. Classroom study includes the philosophy and management of care centers and the state and local regulations governing care giving operations. The learning experiences will involve working with children/adults simulating those found in business and industry, as well as preparation for developing and facilitating these activities. Upon successful completion of the course requirements, students will receive the Early Childhood Education Credential Level 1 as recognized by the State of Illinois.

### **ACC EARLY CHILDHOOD 2 (555V) (CARE & LEARNING SERVICES MANAGEMENT)**

Grade 12                              Credits 3.0                              Full Year Course                              Fees: \$5 per semester  
\$7 binder optional

Prerequisites: Satisfactory completion of ACC Early Childhood 1 and instructor recommendation.

**Course Description:** This course emphasizes the skills associated with the administration of the infant, child and adult care facilities and education centers. Skills, strategies and issues related to caring for infants and special needs children and adults, where applicable, are included. Emphasis is placed on career opportunities, communication skills, human relations and the service needs of clients in the occupational area. The major learning experiences will involve actual work with children and /or adults in facilities simulating those found in the workplace/industry, and discussion of the situations and problems that arise during the learning experiences. State licensing and certification requirements and regulations related to all aspects of care and education are stressed throughout the course. Careers in the occupational area will be investigated, including entrepreneurship.

### **ACC COSMETOLOGY (554V) (COSMETOLOGY 1)**

Grade 12                              Credits 2.5                              Full Year Course                              Fees: \$25 per semester  
\$16 uniform

Prerequisites: In most cases, students must provide their own transportation.

**Course Description:** The Cosmetology program must be approved and licensed by the Illinois Department of Financial and Professional Regulations, Division of Professional Regulation and meet all state and federal regulations. Cosmetology 1 provides introduces students to the requirements to become a licensed cosmetologist. It offers students instruction in both theory and practical application in the following areas: tools and their use, shampoo, understanding chemicals and use, types of hair, sanitation, hygiene, skin diseases and conditions, anatomy and physiology, electricity, ethics, nail technology and esthetics as they relate to the Barber, Cosmetology, Esthetics, and Nail Technology Act. Knowledge, skills, and activities completed in this course will help prepare students for Cosmetology II, while earning hours towards licensure.

### **ACC DESIGN AND DRAFTING 1 (560V) (ARCHITECTURAL/MECHANICAL DRAFTING 1)**

Grades 11 12                              Credits 2.5                              Full Year Course                              Fees: \$5 per semester

Prerequisites: Drafting 1 and Communication Technology recommended.

**Course Description:** **Architectural** course is designed to provide students interested in a career in Architecture with information and practical experience needed for the development of job-related competencies. Students are made aware of the career opportunities available in the Architectural Drafting and Architectural Drafting CAD - CADD field. Instruction is provided in the areas of planning and organizing activities, researching information, performing general office procedures, preparing of preliminary drawings, basic layout, detail drawings, reproduction techniques, producing working drawings, and computer aided drafting. Students are also provided with instruction in producing architectural drawings in the areas of presentation, floor plans, illustration of landscape features, sketching preliminary floor plans, drawing foundation plans and sections, exterior elevations, stair sections, chimney sections, roof sections, finish schedules, preparing plumbing, HVAC and electrical plans, and structural drawings.

**Mechanical** course introduces students to layout to scale using specified tolerances, preparing detail drawing for individual parts from drawings, layout and creating assembly drawings, and preparing mechanical orthographic subassembly drawings. This course also includes a sequence of CAD experiences in 2-dimensional and 3-dimensional drawing generation to include vocabulary development, system operation, entity creation, dimensioning and text insertion, plotting, three dimensional coordinate system, 3-D parts detailing and assembly drawings, wire frame models, and system management.

## AREA CAREER CENTER

### ACC DESIGN AND DRAFTING 2 (561V) (ARCHITECTURAL/MECHANICAL DRAFTING 2)

Grade 12                      Credits 2.5                      Full Year Course                      Fees: \$5 per semester

Prerequisites: Credit in ACC Design and Drafting 1

**Course Description:** **Architectural** instruction is provided in the areas of locating information using computer data files, determination of materials and availability, project conferences, checking plan dimensions, drawing schematic sketches, preparing scale sketches, producing drawings from written/verbal instructions, application of coordinate dimensioning standards, creating drawings using a plotter/ printer, producing renderings and/or charts and graphs, and common plan features. Instruction is also provided in the areas of drawing framing plans; wall sections; fireplace sections; door sections; door and window schedules; dimensioning structural steel drawings; constructing column detail drawings; preparation of structural foundation, slab and floor plans; drawing electrical, block, schematic and electrical connection drawings. Skills relating to CAD include preparation of a basic CAD drawing; building and editing a data base; developing a 3-dimensional drawing; and selection appropriate line work, line weight and color.

**Mechanical** instruction is provided in the areas of identifying appropriate interfacing personnel (internal/external), producing renderings and project time schedules, producing structural working drawings as structural steel plans; dimension structural steel drawings and draw beam connections; and producing electrical and electronic working drawings as electrical and electronic schematic diagrams. Additional skills introduced in this program include determining the requirements of a specific drafting job; preparing preliminary drawings such as freehand, isometric, orthographic and oblique sketches; preparing detail drawings such as creating assembly drawings, orthographic projections, sectional views, auxiliary views, isometric views and letter drawings; producing mechanical working drawings such as detailing components of mechanical orthographic assembly and subassembly drawings; and using CAD command processes to prepare a basic CAD drawing.

### ACC EXTENDED CAMPUS HEALTH OCCUPATIONS (ECHO) 1 (538V) (NURSING ASSISTANT)

Grades 11 12                      Credits 2.5                      Full Year Course                      Fees: \$10 per semester  
\$20-\$40 white uniform & shoes  
\$65 State Certification  
Testing (optional)

Prerequisites: None

**Course Description:** This is a Certified Nursing Assistant program approved by the Illinois Department of Public Health (Program #0288). The course is composed of a combination of theory, laboratory simulations and clinical experiences providing direct patient care. Clinical work is under the direction of a registered nurse clinical instructor. Successful completion of all aspects of the program qualifies the student to take the Illinois Competency Exam and be placed on the Illinois health Care Worker Registry. The student learns those competencies needed to be employed as a nursing assistant working under the direction of the registered nurse. Areas of class instruction include the role of the nurse assistant, medical ethics, patient rights, safety, anatomy and physiology, pathophysiology, communication, infection control, medical terminology, nutritional needs, basic nursing care, patient observation, reporting and recoding, rehabilitation, psychological support, basic emergency care, and death and dying. During clinical rotations, the study provides supervised care for patients with a wide variety of conditions and diseases.

### ACC EXTENDED CAMPUS HEALTH OCCUPATIONS (ECHO) 2 (539V) / MEDICAL TERMINOLOGY and HEALTH OCCUPATIONS – Entry Level Skill Development

Grade 12                      Credits 2.5                      Full Year Course                      Fees: \$10 per semester

Prerequisites: ECHO 1, pass the CNA test, 2.5 GPA, 83 or above on reading section of the COMPASS test and instructor approval. Students must provide their own transportation to internship site.

**Course Description:** ECHO 2 is composed of two parts each of which is one semester in length.

**Medical Terminology:** Students learn how to identify medical terms by analyzing their components. This course emphasizes defining medical prefixes, root words, suffixes and abbreviations. Class work also includes the application of the terminology to medical case studies. The primary focus is on developing both oral and written skills in the language used to communicate within health care professions.

**Trinity Health Academy:** This course is held at Trinity College of Nursing and Health Care. It includes class instruction and clinical observation. During class instruction the student is introduced to various careers within the health setting and the skills necessary for employment in a health care center. Clinical observations are scheduled in areas that reflect all the health care pathways—therapeutic, diagnostic, health informatics, support services and biotechnology research.

\*Dual Credit available; ask your counselor for details.

## AREA CAREER CENTER

### **ACC FIRE SCIENCE / FIRE FIGHTING 1 (597V) (FIRE FIGHTING 1)**

Grades 11 12 Credits 2.5 Full Year Course Fees: \$10 per semester

Prerequisites: None

**Course Description:** This course is designed to provide students with the skills needed to prevent and extinguish fires, maintain and repair fire-service-related equipment, provide basic emergency medical treatment and prepare public service information concerning fires and hazardous materials. Instruction includes the physical characteristics of fire as well as general safety practices, basic fire behavior and extinguishing principles. Students learn rescue and extrication procedures, types and use of ground ladders, proper ventilation techniques, appropriate use of various water supply systems and how to use ropes and tie knots. Students also learn basic emergency medical techniques and practices which include basic patient assessment and basic emergency treatment.

### **ACC EMERGENCY RESPONDER / FIRE FIGHTING 2 (598V) (ER / FIRE FIGHTING 2)**

Grade 12 Credits 2.5 Full Year Course Fees: \$10 per semester

Prerequisites: Successful completion of ACC Fire Science/Fire Fighting 1 and instructor recommendation.

**Course Description:** Emergency Responder courses place a special emphasis on the knowledge and skills needed in medical emergencies. Topics typically include clearing airway obstructions, controlling bleeding, bandaging, methods for lifting and transporting injured persons, simple spinal immobilization, infection control, stabilizing fractures and responding to cardiac arrest. The courses may also cover the legal and ethical responsibilities involved in dealing with medical emergencies.

Fire Fighting 2 is a two-year program that introduces students to the fire science and fire fighting career. Fire Fighting 2 builds on the concepts and skills introduced in Fire Fighting 1. Instruction is provided in the use of fire hoses, controlling property loss along with fire control techniques, detection systems and prevention practices. Instruction includes communication procedures, procedures for operating emergency vehicles, maintaining fire-related equipment and vehicles, and security and protecting evidence. Students may learn procedures for treating poisonings and allergic reactions, environmental emergencies and hazardous waste removal as well as how to treat soft tissue, musculoskeletal, and head and spine injuries.

### **ACC GRAPHIC ARTS 1 (564V) (GRAPHIC COMMUNICATIONS 1)**

Grades 11 12 Credits 2.5 Full Year Course Fees: \$5 per semester

Prerequisites: None

**Course Description:** Graphic Communications 1 provides learning experiences common to all graphic communications occupations. Instruction will include use of color, balance and proportion in design; three-dimensional visualization; sketching; design procedures; layout; selection of type styles; selection of appropriate drawing tools and media; and the use of the computer as a communication tool. Software covered will be Adobe Photoshop, Illustrator, and InDesign including photography and how it ties into graphic arts. Students will also learn the processes of Screen Printing and vinyl cutting/preparation. Planned learning activities will allow students to become knowledgeable of fundamental principles and methods and to develop technical skills related to the graphic arts industry.

### **ACC GRAPHIC ARTS 2 (565V) (GRAPHIC COMMUNICATIONS 2)**

Grade 12 Credits 2.5 Full Year Course Fees: \$5 per semester

Prerequisites: Credit in ACC Graphic Arts 1.

**Course Description:** This is a two-year program that introduces students to the graphic arts/printing industry. Graphic Communications 2 provides learning experiences related to the tools, materials, processes and practices utilized in the printing industry. Instruction is provided in industrial safety; stencil preparation and duplication equipment operation; print screen preparation and printing; machine typesetting; ink and color preparation, separation, and binding; use of cameras, photocomposition and photographic equipment; and vinyl cutting. Continued emphasis is placed on the use of technology in Graphic Communications including design and camera software.

### **ACC INTERRELATED CO-OP EDUCATION 1 (580V) (COOPERATIVE EDUCATION)**

Grades 11 12 Credits 2.5 Full Year Course Fees: \$5 per semester

Prerequisites: Students must provide their own transportation.

**Course Description:** Cooperative Education is a capstone course designed to assist students in the development of effective skills and attitudes through practical, advanced instruction in school and on the job through cooperative education. Students are released from school for their paid cooperative education work experience and participate in 200 minutes per week of related classroom instruction. Classroom instruction focuses on providing students with job survival skills and career exploration skills related to the job and improving students' abilities to interact positively with others. For skills related to the job, refer to the skill development course sequences, the task list or related occupational skill standards of the desired occupational program. The course content includes the following broad areas of emphasis: further career education opportunities, planning for the future, job-seeking skills, personal development, human relationships, legal protection and responsibilities, economics and the job, organizations, and job termination. A qualified career and technical education coordinator is responsible for supervision. Written training agreements and individual student training plans are developed and agreed upon by the employer, student and coordinator. The coordinator, student, and employer assume compliance with federal, state, and local laws and regulations.

## AREA CAREER CENTER

### **ACC INTERRELATED CO-OP EDUCATION 2 (581V)**

Grade 12                      Credits 2.5                      Full Year Course                      Fees: \$5 per semester

Prerequisites: Credit in ACC Interrelated Co-op Education 1. Students must provide their own transportation.

**Course Description:** This is a two-year program that offers on-the-job training for students interested in any one of five occupational careers: agriculture, industry, health, home economics, and business. Students will spend an average of 15 hours per week working for wages in an occupational area of choice and one period each day receiving related classroom instruction. Classroom instruction will focus on providing students with job survival skills, career exploration and employability skills. Money for class-related activities is raised through fund raising projects.

### **ACC LAW AND PUBLIC SAFETY 1 (582V) (LAW ENFORCEMENT 1)**

Grades 11 12                      Credits 2.5                      Full Year Course                      Fees: \$5 per semester

Prerequisites: Juniors who are interested in law and law enforcement.

**Course Description:** This course is designed to prepare students to enter the fields of law enforcement and the criminal justice system. Instruction includes the history of law enforcement and the legal system, report writing and recordkeeping, criminal investigation techniques, and routine police procedures. Students learn how to use communications and dispatch equipment, perform proper search and seizure techniques, conduct basic criminal investigations, and execute correct pursuit and arrest procedures. Instruction also includes patrolling techniques, private security operations, traffic investigations, and community relations.

### **ACC LAW AND PUBLIC SAFETY 2 (583V) (LAW ENFORCEMENT 2)**

Grade 12                      Credits 2.5                      Full Year Course                      Fees: \$5 per semester

Prerequisites: Credit in ACC Law and Public Safety 1.

**Course Description:** This course provides experiences for students in basic investigative techniques for crimes against people and property. Learning activities emphasize the development of more advanced knowledge and skill than those provided in Law Enforcement 1. Units of instruction include how to conduct a preliminary investigation and protect a crime scene, collect and preserve physical evidence including dusting latent prints, casting, fingerprint classification, and the use of portable crime laboratory equipment. Students learn how to conduct interviews, complete police reports, use police equipment, and testify in court. Instruction also includes traffic control, personal security, and law enforcement administration.

### **ACC MANUFACTURING TECHNOLOGY 1 (573V) (PRECISION METAL PRODUCTION 1)**

Grade 11                      Credits 2.5                      Full Year Course                      Fees: \$5 per semester  
\$3 safety glasses

Prerequisites: Selection by Screening Committee

**Course Description:** This course offers a planned sequence of learning experiences which provide students with the opportunities to develop competencies needed for employment in a variety of manufacturing -related occupations. This course introduces students to the skills common to many occupations, such as applying safety practices, selecting materials, performing bench work operations, performing precision measurement, performing layouts, performing housekeeping and recordkeeping activities, and operating a variety of tools used for separating, forming, and combining materials.

### **ACC MANUFACTURING TECHNOLOGY 2 (574V) (PRECISION METAL PRODUCTION 2)**

Grade 12                      Credits 2.5                      Full Year Course                      Fees: \$5 per semester  
\$3 safety glasses

Prerequisites: Credit in ACC Manufacturing Technology 1.

**Course Description:** This is an innovative program in which students experience manufacturing processes first-hand. Most training will be conducted on site at the John Deere Harvester Works East Moline plant. Students will receive training from experienced precision metal workers on current production machines and equipment. John Deere employees will lead these students through a wide variety of educational experiences in order to teach technical skills as well as general employability skills. Management personnel conduct training seminars in such areas as teamwork and problem solving. Candidates for this program must have a proven history of good attendance. Applicants are selected through an interview process with John Deere Harvester Works staff. This course is a continuation of Precision Metal Production 1 and builds on the skills introduced in that course. This course begins to offer students the opportunity to specialize in specific areas of manufacturing such as machine tool set -up and operation, welding, quality control, automated machine set -up and operation, and sheet metal fabrication. Course content includes the following areas: metallurgy and heat treatment of metal, advanced machine set -up and operation, numerical control/computer, numerical control machining, performing supervisory functions and installation, and maintenance and repair of machinery.

## AREA CAREER CENTER

### **ACC WEB PAGE DESIGN 2 (577V) (WEB PAGE & INTERACTIVE MEDIA DEVELOPMENT 2)**

Grades 11 12 Credits 2.5 Full Year Course Fees: \$6 per semester

Prerequisites: Successful completion of Web Page Design or equivalent course offered by participating school district.

**Course Description:** Web Page Design and Interactive Media Development 2 is a skill-level course for students who have completed Web Page Design and Interactive Media Development 1. Instruction will include using multimedia authoring applications and programming tools such as JavaScript to create a web site that combines text, hyperlinks, images, video, and sound. Instruction will include using hardware and software to capture, edit, create, and compress audio and video clips as well as create animated text, graphics, and images. Other topics will include using tables to align images with text, creating newspaper -style columns, and inserting side menus and call-outs. Students will learn how to use templates, cascading style sheets and interactive elements to enhance web pages. Students will learn to create dynamic forms that include multiple-choice questions, comment boxes, and buttons. Students will learn how to connect to a database and retrieve and write data. Students are encouraged to develop a portfolio project that demonstrates their expertise in areas such as multimedia authoring, web development, audio and video editing, and advanced JavaScript applications to create interactive web pages.

### **ACC WELDING 1 (570V) (WELDING TECHNOLOGY 1)**

Grades 11 12 Credits 2.5 Full Year Course Fees: \$10 per semester  
\$3 safety glasses  
\$7 gloves  
\$65 welding jacket

Students are expected to provide appropriate work clothes but they are not required to purchase specific items of clothing.

Prerequisites: None

**Course Description:** This course assists students in gaining the knowledge and developing the basic skills needed to be successful in welding technology. Units of instruction include arc and MIG welding, metallurgy, cutting metal using arc, plasma, and oxy-gas. In addition, students learn the basics of blueprint reading, precision measuring, layout, and production process planning. Students will progress from arc (stick) welding to MIG welding.

\*Dual credit available; ask your counselor for details.

### **ACC WELDING 2 (571V) (WELDING TECHNOLOGY 2)**

Grade 12 Credits 2.5 Full Year Course Fees: \$10 per semester  
\$3 safety glasses  
\$7 gloves  
\$65 welding jacket

Students are expected to provide appropriate work clothes but they are not required to purchase specific items of clothing.

Prerequisites: Credit in ACC Welding 1

**Course Description:** This course builds on the skills and concepts introduced in Welding Technology 1 and provides more in-depth skill development in various types of welding including horizontal, vertical, overhead, and circular techniques. Students also explore the use of robotic and automated production welding. Students will progress from arc (stick) welding to MIG to oxyacetylene to TIG for stainless steel and aluminum welding in all positions.

\*Dual credit available; ask your counselor for details.

### **ACC WOODWORKING TRADES 1 (548V) (CABINETMAKING & MILLWORK 1)**

Grades 11 12 Credits 2.5 Full Year Course Fees: \$15 per semester  
\$3 safety glasses

Prerequisites: None

**Course Description:** This course introduces students to the basic design and fabrication of residential cabinetry and custom furniture. The course also exposes students to the millwork and millwright industry. Instruction includes safety practices in using hand tools and power equipment.

### **ACC WOODWORKING TRADES 2 (549V) (CABINETMAKING & MILLWORK 2)**

Grade 12 Credits 2.5 Full Year Course Fees: \$15 per semester  
\$3 safety glasses  
Material costs for individual projects

Prerequisites: Successful completion of ACC Woodworking Trades 1

**Course Description:** This course provides learning experiences related to the erection, installation, and maintenance of commercial and residential cabinetry, and the repair and maintenance of stationary woodworking machinery. Planned learning activities emphasize the development of more advanced knowledge and skills than those provided in Cabinetmaking and Millwork 1. This course provides the student with the knowledge and skills necessary to perform basic cabinetry construction and how it relates to the manufacturing process. In addition, more advanced woodworking machine maintenance skills are introduced.

## BUSINESS EDUCATION

Course #.....	Course Name .....	Length .....	Grade(s).....
001 .....	All About Money (12001A001).....	Semester .....	9 10
002 .....	Introduction to Business (12001A001).....	Semester .....	9 10
011 .....	Computer Technology A (12005A001) .....	Semester .....	9 10 11 12
019 .....	Computer Technology B (10004A001) .....	Semester .....	9 10 11 12
012 .....	Introduction to Computer and Interactive Game Programming...Semester .....	9 10 11 12	
006 .....	Recordkeeping (12007A001).....	Semester .....	9 10 11 12
020 .....	College Prep Accounting 1 (12104A001) .....	Full Year .....	10 11 12
017 .....	Web Page Design (10201A001) .....	Semester .....	10 11 12
040 .....	College Prep Accounting 2 (12104A002) .....	Full Year .....	11 12
961 .....	Applied Economics .....	Semester .....	11 12
022 .....	Business Law (12054A001).....	Semester .....	11 12
044 .....	Consumer Education .....	Semester .....	11 12
980 .....	iJAG 1.....	Full Year .....	9
987 .....	iJAG 2.....	Full Year .....	10
992 .....	iJAG 3.....	Full Year .....	11
993 .....	iJAG 4.....	Full Year .....	12

### Area Career Center Courses in Business Education

Descriptions for the following ACC courses in Business Education are found in the Area Career Center section of this guide.

556V.....	ACC Advanced Computer Applications (10005A002) .....	Full Year .....	11 12
577V.....	ACC Web Page Design 2 (10201A002) .....	Full Year .....	11 12

#### **ALL ABOUT MONEY (001) (BUSINESS & TECHNOLOGY CONCEPTS)**

Grades 9 10                      Credits 0.5                      Semester 1 or 2                      Fees: None

Prerequisites: None

**Course Description:** This course covers basic business vocabulary; banking services; budgeting; buymanship and consumer education; use of credit; interest rates; loans; income; auto, health and property insurance.

#### **INTRODUCTION TO BUSINESS (002) (BUSINESS & TECHNOLOGY CONCEPTS)**

Grades 9 10                      Credits 0.5                      Semester 1 or 2                      Fees: None

Prerequisites: None

**Course Description:** In this course students will develop an understanding of the economic role of business. Topics include business and government in our economy, technology for business decisions, investments and careers.

#### **COMPUTER TECHNOLOGY A (011) (KEYBOARDING & FORMATTING)**

Grades 9 10 11 12                      Credits 0.5                      Semester 1 or 2                      Fees: None

Prerequisites: None

**Course Description:** In this course, students will learn to key on computers. Major emphasis is placed on technique, proofreading and correcting errors. Students will learn to login to the school network for file storage, program access, Skyward access, Google Docs and Gmail. Students will learn word processing software to format memos, e-mail, letters, reports and tables. Sufficient skill is developed for personal use.

#### **COMPUTER TECHNOLOGY B (019) (COMPUTER CONCEPTS & SOFTWARE APPLICATIONS)**

Grades 9 10 11 12                      Credits 0.5                      Semester 1 or 2                      Fees: None

Prerequisites: Credit in Computer Technology A or proficiency test.

**Course Description:** This is a computer course that is a valuable elective for all levels of students. Students learn to use computers for a variety of tasks such as personal information management, spreadsheet creation, database building, and Internet research and safety use. Course work will be completed using the Microsoft Office Suite and Internet Explorer. Note: Keyboarding skills equivalent to one semester of a typing/keyboarding course are essential for successful completion of all assignments.

## BUSINESS EDUCATION

### INTRODUCTION TO COMPUTER AND INTERACTIVE GAME PROGRAMMING (012)

Grades 9 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: Computer Technology A or permission from the instructor.

**Course Description:** This one-semester course will introduce the fundamentals of C++ programming from an interactive game programming perspective. This is designed for the total programming beginner. However, learning C++ and game programming will require reading, work and experimentation. Content will include types, variables and standard I/O; truth, branching; looping, strings, arrays; functions, references pointers, classes and dynamic memory. Most unites will include a simple game which students will program.

### RECORDKEEPING (006)

Grades 9 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None. Not open to students previously enrolled in CP Accounting 1.

**Course Description:** In this course students learn to plan and record personal finances using special forms and personal recordkeeping software on the computer. Basic accounting concepts are introduced along with spreadsheet applications on the computer. Though not required, Recordkeeping is recommended as a preparation for CP Accounting 1.

### COLLEGE PREP ACCOUNTING 1 (020)

Grades 10 11 12 Credits 1.0 Full Year Course Fees: \$35 workbook

Prerequisites: Recordkeeping recommended.

**Course Description:** This is a first level course which emphasizes financial accounting. Study includes the accounting cycle, forms of business organizations, assets, liabilities, owner's equity, and financial statement preparation and analysis. Examples are drawn from service, merchandising and manufacturing organizations. Computer applications are included. This course is designed for students who plan to continue with additional courses in the field as well as for those whose needs are limited to an introductory course.

### WEB PAGE DESIGN (017) (WEB PAGE & INTERACTIVE MEDIA DEVELOPMENT 1)

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: Credit in Computer Technology A.

**Course Description:** In this course students are provided with hands-on practice designing web pages for various purposes. Focus is on the Web home page as a practical tool designed to capture an audience. Critical analysis of Web page organization, design and function will include history and structure on the Internet, HTML code, elements of an effective Web page, graphics and text enhancements. Various software programs and their Web page elements will be included.

### COLLEGE PREP ACCOUNTING 2 (040)

Grades 11 12 Credits 1.0 Full Year Course Fees: \$35 workbook

Prerequisites: Grade of "B" or above in CP Accounting 1 and/or teacher recommendation required.

**Course Description:** This course provides students with an in-depth study of accounting. Departmentalized, corporate, management, and cost accounting procedures and applications are explored.

### APPLIED ECONOMICS (961)

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None. Recommended for College Prep students.

**Course Description:** This course is directed toward college-bound students and requires actual operation of a small business in the classroom as part of their study of general economics. Topics are studied from the perspective of business, the consumer, labor and government. The course features student projects and business advisors in the classroom. This course fulfills the state consumer education requirement.

### BUSINESS LAW (022)

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** This is the study of the legal environment in which we live. Topics include law enforcement and the courts and laws for minors, consumers and business. Contract law will also be studied. This course is highly recommended for college-bound business majors and all students with an interest in the law.

### CONSUMER EDUCATION (044)

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** In this course students will study the effects of personal values and goals on consumer choices; money management; how to get the most for one's money when buying clothing, food, furniture and appliances; how to meet housing, transportation and insurance needs; and taxes. This course fulfills the state consumer education requirement.

## DRIVER EDUCATION

**Course #.....Course Name .....Length ..... Grade(s).....**  
700.....Driver Education Classroom.....Quarter .....9 10

---

### **DRIVER EDUCATION CLASSROOM (700)**

Grades 9 10 Credits 0.25 Each Quarter Fees: None

Prerequisites: Credit in eight courses during previous two semesters.

**Course Description:** This course fulfills the State of Illinois driver education graduation requirement. It includes a thorough study of the Rules of the Road; highway safety; map reading; and the efficient, proper and safe operation of an automobile. This course is only open to students who have received a passing grade in at least eight courses during the previous two semesters or who have received a waiver from the superintendent. This class meets daily in a classroom setting. Older freshmen and sophomores are eligible to take this class and are assigned to a designated quarter depending on their birth dates.

### **DRIVER EDUCATION BEHIND-THE-WHEEL**

Grades 9 10 11 12 Credits-None

Fees: \$100 driving fee (established by and subject to change at the discretion of the UTHS Board of Education)

\$20 instruction permit (subject to change by the State of Illinois)

Prerequisites: Credit or concurrent enrollment in Driver Education Classroom.

**Course Description:** This course involves a total of six hours of driving instruction (usually before or after school and on weekends) in a dual-control car with a qualified instructor. Students who wish to take practice driving must submit a written request to the driver education instructor or to the administrator in charge of driver education and must secure an instruction permit from the State of Illinois. Students who earn a "B" average or above in both driver education classroom and practice driving may be exempt from the driving test at the State License Bureau.

**ENGLISH**

<b>Course #.....</b>	<b>Course Name .....</b>	<b>Length .....</b>	<b>Grade(s).....</b>
194 .....	ESL/Beginning ESL .....	Full Year .....	9 10 11 12
195 .....	ESL/Intermediate ESL (Low) .....	Full Year .....	9 10 11 12
196 .....	ESL/Intermediate ESL (High) .....	Full Year .....	9 10 11 12
197 .....	ESL/Advanced .....	Full Year .....	9 10 11 12
111 .....	College Prep English 1 .....	Full Year .....	9
112 .....	English 1 .....	Full Year .....	9
225 .....	Introduction to Communication Arts .....	Semester .....	9 10 11 12
121 .....	College Prep English 2 .....	Full Year .....	10
122 .....	English 2 .....	Full Year .....	10
161 .....	World Studies .....	Full Year .....	10
151 .....	Journalism .....	Semester .....	10 11 12
157 .....	Skyline (yearbook) .....	Full Year .....	10 11 12
226 .....	Advanced Speech .....	Semester .....	11 12
131 .....	College Prep English 3 .....	Full Year .....	11
132 .....	English 3 .....	Full Year .....	11
162 .....	American Studies .....	Full Year .....	11
153 .....	Advanced Journalism .....	Semester .....	11 12
155 .....	Creative Writing .....	Semester .....	11 12
*141 .....	College Prep English 4 .....	Full Year .....	12
142 .....	English 4 .....	Full Year .....	12
163 .....	Western Civilization .....	Full Year .....	12

\*Dual credit available; ask your counselor for details.

**ESL/BEGINNING ESL (Level 1) (194)**

Grades 9 10 11 12      Credits 1.0      Full Year Course      Fees: None

Prerequisites: Selection by program director.

**Course Description:** This class focuses on beginning English oral, reading, and writing skills. Students will learn commonly-used vocabulary and basic sentence structure. Reading instruction will focus on pronunciation, fluency, comprehension, and embedded vocabulary.

**ESL/INTERMEDIATE ESL (Low) (Level 2) (195)**

Grades 9 10 11 12      Credits 1.0      Full Year Course      Fees: None

Prerequisites: Selection by program director.

**Course Description:** This class focuses on low intermediate English oral, listening comprehension, reading, and writing skills. Students will learn additional vocabulary (including subject-based vocabulary), grammar structures, past and future tenses, and how to write complex sentences. Reading instruction will focus on reading strategies, pronunciation, fluency, comprehension, and embedded vocabulary.

**ESL/INTERMEDIATE ESL (High) (Level 3) (196)**

Grades 9 10 11 12      Credits 1.0      Full Year Course      Fees: None

Prerequisites: Selection by program director.

**Course Description:** This class focuses on the intermediate high English oral, listening, comprehension, reading, and writing skills. Students learn additional vocabulary, grammar structures and writing complete paragraphs that focus on structure and support. Reading strategies are utilized to improve comprehension and improve writing through use of textual support.

**ESL/ADVANCED ESL (Level 4) (197)**

Grades 9 10 11 12      Credits 1.0      Full Year Course      Fees: None

Prerequisites: Selection by program director.

**Course Description:** This class focuses on the use of English in an academic setting. Students will learn to write five paragraph themes and present oral reports. Students will read more advanced texts with advanced grammar and sentence structure.

## ENGLISH

### COLLEGE PREP ENGLISH 1 (111)

Grade 9 Credits 1.0 Full Year Course Fees: None

Prerequisites: None

**Course Description:** This course includes: a) the development of paragraph compositions using facts, examples and incidents; b) the study of major themes in world literature, the reading of major works, and introduction of a number of literary terms; and c) the improvement of language use by developing correct use of the parts of speech (particularly verbs), phrases, clauses and sentence patterns.

### ENGLISH 1 (112)

Grade 9 Credits 1.0 Full Year Course Fees: None

Prerequisites: None

**Course Description:** This course is designed for those students who will not pursue a college degree program but who may continue their education in a technical-type school. Students' attention is centered on building for specific reading/literary skills to become independent, self-sufficient readers. Attention is also centered on eight specific composition/language skills to allow students to become independent self-sufficient writers.

### INTRODUCTION TO COMMUNICATION ARTS (225)

Grades 9 10 11 12 Credits: 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** Emphasis is on basic skills in oral communication. Activities include role playing, basic communication situations, discussion in groups, reading with meaning, non-verbal communication, speaking extemporaneously and public speaking. **This course is NOT offered for English credit.** However, Speech 2 can be taken for English credit and Introduction to Communication Arts is the prerequisite.

### COLLEGE PREP ENGLISH 2 (121)

Grade 10 Credits 1.0 Full Year Course Fees: None

Prerequisites: Computer Technology A recommended.

**Course Description:** This course includes: a) the development of multi-paragraph compositions using the methods learned in CP English 1 plus comparison, contrast and definition; b) the continued study of major themes in world literature including additional literary terms; and c) the continued improvement of language use with emphasis on modifications of sentences.

### ENGLISH 2 (122)

Grade 10 Credits 1.0 Full Year Course Fees: None

Prerequisites: None

**Course Description:** This course is designed for those students who will not pursue a college degree but who may continue their education in a technical-style school. Students review the four reading/literary skills introduced in English 1 and center much attention on four new specific reading/literary skills in order to become independent, self-sufficient readers. In addition, students review and expand composition experience to build eight specific composition/language skills.

### WORLD STUDIES (161)

Grade 10 Credits 1.0 Full Year Course Fees: None

Prerequisites: Computer Technology A recommended.

**Course Description:** This class meets for two consecutive periods each day and allows selected sophomores to earn proper credit for College Prep English 2 and College Prep World History through the study of the cultural, political, economic, social and intellectual history of the world. Students will do extensive discussion, writing and analytical reading to build critical thinking skills desirable for later academic work.

### JOURNALISM (151)

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None. One semester of Journalism or Creative Writing may be applied to English credit requirements. Additional credit earned in these three courses may be applied to general graduation requirements only.

**Course Description:** This course provides the fundamentals of basic reporting and writing factual news stories as well as feature and human interest stories. Much emphasis is placed on current events and news topics. Writing assignments also include editorial and opinion writing, personality sketches and political and sports writing. Students are encouraged to publish their best writing in local newspapers or student publications. This class includes a mixture of traditional classroom instruction and computer lab time.

## ENGLISH

### SKYLINE (157)

Grades 10 11 12 Credits 1.0 Full Year Course Fees: None

Prerequisites: Selection by advisor. Credit earned may be applied to general graduation requirements only.

**Course Description:** This is the yearbook production class designed to teach and put to use such techniques as page design, copy writing, headline writing, editing, caption writing, advertising, sales and display, and photographic skills.

The major objective of this class is the distribution of the Skyline in the spring. Students must have skill in writing and grammar. It is expected that students spend additional time outside of class to complete assignments.

### ADVANCED SPEECH (226)

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: Introduction to Speech Communication. A semester of Advanced Speech may be applied to English credit requirements.

**Course Description:** The oral communication course combines communication theory with the practice of oral communication skills. The oral communication course: (1) develops awareness of the communication process; (2) provides intentional, organizational, and expressive strategies; (3) promotes understanding of and adaptation to a variety of communication contexts; and (4) emphasizes critical skills in listening, reading, thinking and speaking.

\*Dual credit available; ask your counselor for details.

### COLLEGE PREP ENGLISH 3 (131)

Grade 11 Credits 1.0 Full Year Course Fees: None

Prerequisites: Computer Technology A recommended.

**Course Description:** This course includes: a) the development of multi-paragraph essays and compositions including a fully documented research paper; b) the study of major aspects of American literature and the reading of representative works; and c) the continued improvement of vocabulary as well as grammar and language usage by avoiding fragments, run-ons and dangling modifiers, and by using correct parallel construction in sentence structure. Emphasis will also be placed on preparing for the Prairie State Achievement Exam/ACT.

### ENGLISH 3 (132)

Grade 11 Credits 1.0 Full Year Course Fees: None

Prerequisites: None

**Course Description:** This course is designed for those students who will not pursue a college degree program but who may continue their education in a technical-type school. Students review the eight reading/literary skills introduced in English 1 and English 2 and center much attention on four new specific reading/literary skills in order to become independent, self-sufficient readers. In addition, students review and expand composition experiences to develop eight specific composition/language skills.

### AMERICAN STUDIES (162)

Grade 11 Credits 1.0 Full Year Course Fees: None

Prerequisites: Computer Technology A recommended.

**Course Description:** This class meets for two consecutive periods each day and allows selected juniors to earn credit for College Prep English 3 and College Prep U.S. History through the study of the cultural, political, economic, social and intellectual history of the United States. Students do extensive discussion, writing and analytical reading to build critical thinking skills desirable for later collegiate work.

### ADVANCED JOURNALISM (153)

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: Credit in Journalism. Credit earned may be applied to general graduation requirements only.

**Course Description:** This course continues the study of journalism for those who want to study the influence of the press and acquire a personal style of reporting. In-depth reporting, advertising and journalism as a career are areas of study.

### CREATIVE WRITING (155)

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None. One semester of Creative Writing or Journalism may be applied to English credit requirements. Additional credit earned in these three courses may be applied to general graduation requirements only.

**Course Description:** This course is for students who have good written language skills and are interested in writing poetry, short stories, plays and essays. Much of the emphasis is placed on the study of poetry and writing various kinds of poetry including both free verse and form poems. The class includes a mixture of traditional classroom work and computer lab time.

## ENGLISH

### **\*COLLEGE PREP ENGLISH 4 (141)**

Grade 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Computer Technology A recommended.

**Course Description:** This course includes: a) the writing of a documented research paper, argumentative papers, college entrance essays and scholarship writing; b) the study of major concepts in English literature and the reading of major representative works; and c) the improvement and refinement of language usage including sentence structure and related skills of punctuation, capitalization, spelling and vocabulary.

\*Dual credit available; ask your counselor for details.

### **ENGLISH 4 (142)**

Grade 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Computer Technology A recommended.

**Course Description:** This course is designed primarily for students who will not pursue a degree program beyond high school but who may continue their education in a technical-type school. Students review and refine their reading/literary/composition skills introduced in their previous English classes through reading and writing assignments.

### **WESTERN CIVILIZATION (163)**

Grade 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Computer Technology A recommended.

**Course Description:** This class meets for two consecutive periods each day and allows selected seniors to earn credit for College Prep English 4 and a full credit of senior College Prep Social Studies which includes U.S. Government. This course emphasizes mature inquiry into the cultural, political, economic, social and intellectual development of Western mankind as a means of developing critical thinking skills that are desirable for the successful university student.

## FAMILY AND CONSUMER SCIENCES

Course #.....	Course Name .....	Length .....	Grade(s)
405.....	Exploring Foods (22201A001).....	Semester.....	9 10
406.....	Exploring Fashion (22201A001).....	Semester.....	9 10
422.....	Child Development (19052A001).....	Semester.....	10 11 12
401.....	Clothing 1 (19201A001).....	Semester.....	10 11 12
402.....	Clothing 2 (19203A001).....	Semester.....	10 11 12
411.....	Foods 1 (16054A001).....	Semester.....	10 11 12
412.....	Foods 2 (16054A002).....	Semester.....	10 11 12
430.....	Gender Issues (22207A001).....	Semester.....	10 11 12
426.....	Interior Design (22211A001).....	Semester.....	10 11 12
428.....	Parenting (22204A001).....	Semester.....	10 11 12
403.....	Clothing 3 (19204A001).....	Semester.....	11 12
404.....	Clothing 4 (Tailoring) (19204A002).....	Semester.....	11 12
413.....	Foods 3 (16054A003).....	Semester.....	11 12
420.....	Independent Living (22210A001).....	Semester.....	11 12
424.....	Relationships (22207A001).....	Semester.....	11 12

### Area Career Center Courses in Family and Consumer Sciences

Descriptions for the following Area Career Center courses in Family and Consumer Sciences are found in the Area Career Center section of this guide.

552V.....	ACC Early Childhood 1 (19054A001).....	Full Year.....	11 12
555V.....	ACC Early Childhood 2 (19055A001).....	Full Year.....	12
536V.....	ACC Barbering 1 (19102A001).....	Full Year.....	11 12
537V.....	ACC Barbering 2 (19102A002).....	Full Year.....	12
554V.....	ACC Cosmetology (19101A001).....	Full Year.....	12

### EXPLORING FOODS (405) (INTRODUCTION TO FAMILY & CONSUMER SCIENCES CAREERS)

Grades 9 10                      Credits 0.5                      Semester 1 or 2                      Fees: None

Prerequisites: None

**Course Description:** This is an introductory level course for grades nine and ten that involves the study of personal health and development, nutrition and wellness, and food preparation.

### EXPLORING FASHION (406) (INTRODUCTION TO FAMILY & CONSUMER SCIENCES CAREERS)

Grades 9 10                      Credits 0.5                      Semester 1 or 2                      Fees: \$12-\$14 for materials

Prerequisites: None

**Course Description:** This is an introductory level course for grades nine and ten that involves the study of fashion, and interior design and its management. A sewing kit that includes shears, scissors, a seam ripper, straight pins, a pincushion and sewing needles is required. These sewing supplies or kits may be purchased at any local fabric store or you may bring sewing supplies from home.

### CHILD DEVELOPMENT (422) (CHILD DEVELOPMENT & PARENTING)

Grades 10 11 12                      Credits 0.5                      Semester 1 or 2                      Fees: None

Prerequisites: None

**Course Description:** This course involves the study of prenatal care and the development of the baby; the influence of heredity and environment on the child; the birth and care of the newborn infant; physical, emotional, social and intellectual development of the child; health and safety; special problem situations for children; and career opportunities in the child care field.

### CLOTHING 1 (401) (TEXTILES AND DESIGN 1)

Grades 10 11 12                      Credits 0.5                      Semester 1 or 2                      Fees: \$18-\$25 for materials

Prerequisites: None

**Course Description:** Emphasis is on the construction of individual outfits for personal use, the study of design, clothing and fabric selection and basic clothing construction techniques. A sewing kit that includes shears, scissors, a seam ripper, straight pins, a pincushion and sewing needles is required. These sewing supplies or kits may be purchased at any local fabric store or you may bring sewing supplies from home.

## FAMILY AND CONSUMER SCIENCES

### **CLOTHING 2 (402) (TEXTILES & DESIGN 2)**

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: \$18-\$25 for materials

Prerequisites: Credit in Clothing 1.

**Course Description:** This course includes the study of fashion and costume design, fabrics, and wardrobe planning. Construction techniques include methods to use when working with fabrics requiring special handling. Students make outfits using more advanced sewing skills. A sewing kit that includes shears, scissors, a seam ripper, straight pins, a pincushion and sewing needles is required. These sewing supplies or kits may be purchased at any local fabric store or you may bring sewing supplies from home.

### **FOODS 1 (411) (NUTRITION AND CULINARY ARTS 1)**

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** Emphasis is on basic skills necessary for food preparation. Food and its relationship to health, planning simple meals, purchasing food and managing time are discussed. Preparation techniques include preparing food from some of the food groups as well as preparing snacks and simple meals.

### **FOODS 2 (412) (NUTRITION AND CULINARY ARTS 2)**

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: Credit in Foods 1 or Independent Living.

**Course Description:** In this course, students continue to learn basic preparation techniques to make appetizers, meats, main dishes and desserts. Meals using the food groups are prepared and served. Nutrition for athletes and special diets are discussed.

### **GENDER ISSUES (430) (FAMILY AND CAREER RELATIONSHIPS)**

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** This course focuses on opening communication channels to topics that are important to both females and males. Self-esteem, anatomy, reproduction, roles, relationships and violence are covered. The goal is to develop respect for yourself, your sex and the opposite sex. This is a class for students who would like to be part of a less violent, more respectful and understanding society.

### **INTERIOR DESIGN (426) (INTERIOR DESIGN: RESIDENTIAL, COMMERCIAL, AND PUBLIC SPACE)**

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** This course includes the study of housing decisions and satisfaction, decorating and design, styles of housing, and career opportunities within these areas.

### **PARENTING (428)**

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** This course is designed to help students explore the responsibilities, satisfactions and problems of parenthood. Readiness for parenthood and the development of personal parenting skills are given special attention.

### **CLOTHING 3 (403) (FASHION, APPAREL, AND TEXTILE SERVICES OCCUPATIONS)**

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: \$25 for materials

Prerequisites: Credit in Clothing 2.

**Course Description:** Students will explore current and historical fashion, wardrobe planning and construction techniques to use on specialized fabrics and children's clothing. A sewing kit that includes shears, scissors, a seam ripper, straight pins, a pincushion and sewing needles is required. These sewing supplies or kits may be purchased at any local fabric store or you may bring sewing supplies from home.

### **CLOTHING 4 (TAILORING) (404) (TEXTILE AND DESIGN OCCUPATIONS)**

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: \$50-\$60 for materials

Prerequisites: Credit in Clothing 3.

**Course Description:** This is an advanced course in which students construct a lined suit, coat or dress with a lined jacket. Advanced construction skills and the handling of materials suitable for tailored clothing are taught. A sewing kit that includes shears, scissors, a seam ripper, straight pins, a pincushion and sewing needles is required. These sewing supplies or kits may be purchased at any local fabric store or you may bring sewing supplies from home.

## FAMILY AND CONSUMER SCIENCES

### **FOODS 3 (413) (NUTRITION AND WELLNESS OCCUPATIONS)**

Grades 11 12                      Credits 0.5                      Semester 1 or 2                      Fees:    None

Prerequisites: Credit in Foods 1 or Independent Living.

**Course Description:** This course is offered to students in grades 11 and 12 to help in the development of concepts needed for employment in the food service industry. In Foods 3, students will explore careers, equipment and techniques of food service, review nutrition and recipe facts, and practice skills in customer service. With permission from the instructor, Foods 3 may be taken out of sequence with Foods 2.

### **INDEPENDENT LIVING (420) (FAMILY RESOURCE MANAGEMENT & PLANNING)**

Grades 11 12                      Credits 0.5                      Semester 1 or 2                      Fees:    None

Prerequisites: None

**Course Description:** Students will examine survival skills necessary for the single person. Topics covered include jobs and careers; how to choose, rent and furnish an apartment; planning and preparing simple meals; selecting and caring for personal clothing; and managing personal resources such as money and time.

### **RELATIONSHIPS (424) (FAMILY AND CAREER RELATIONSHIPS)**

Grades 11 12                      Credits 0.5                      Semester 1 or 2                      Fees:    None

Prerequisites: None

**Course Description:** Students will investigate the process of personality development, love, mate selection, adjusting to marriage and family crises.

## FINE ARTS

Course #.....	Course Name .....	Length .....	Grade(s).....
201.....	Art 1 .....	Full Year .....	9 10
282.....	Marching Band .....	Quarter .....	9 10 11 12
284.....	Concert Band.....	Full Year .....	9 10 11 12
287.....	Percussion.....	Full Year .....	9 10 11 12
288.....	World Drumming.....	Semester .....	9 10 11 12
265.....	Concert Choir .....	Full Year .....	9 10 11 12
519.....	Media Production 1.....	Semester.....	9 10 11 12
225.....	Introduction to Communication Arts.....	Semester.....	9 10 11 12
286.....	Symphonic Band .....	Full Year .....	9 10 11 12
251.....	UT Singers.....	Full Year .....	9 10 11 12
203.....	Ceramics 1 .....	Semester .....	10 11 12
202.....	Ceramics 2 .....	Semester .....	10 11 12
204.....	Commercial Art.....	Semester .....	10 11 12
205.....	Design .....	Semester.....	10 11 12
206.....	Drawing .....	Semester.....	10 11 12
520.....	Media Production 2 (520) .....	Semester.....	10 11 12
208.....	Painting .....	Semester.....	10 11 12
209.....	Sculpture .....	Semester.....	10 11 12
226.....	Speech 2 .....	Semester.....	10 11 12
210.....	Watercolor .....	Semester.....	10 11 12
212.....	Advanced Placement Art.....	Full Year .....	11 12
*266.....	Music Appreciation .....	Semester.....	11 12

\*Dual credit available; ask your counselor for details.

### ART 1 (201)

Grades 9 10                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: None

**Course Description:** In this course the beginning art student is introduced to the many varied materials, media, tools, techniques and units of art. Eight basic areas are explored in the following units: drawing, design, ceramics, painting, lettering, watercolor, commercial art and sculpture.

### MARCHING BAND (282)

Grades 9 10 11 12                      Credits: 0.25                      Quarter Course                      Fees:    None

Prerequisites: For 1<sup>st</sup> Quarter, "Marching Band" will be brought into the schedule. It will run in tangent with one quarter of the traditional "Concert Band" course. Students in Marching Band will meet 5<sup>th</sup> period. Those who are not in marching band will be in smaller concert band for that quarter.

Students in marching band will receive ¼ credit for foreign language, fine are credit, and PE exemption status. After the first quarter, students will receive their other ¾ credit in language/fine arts by way of concert band/symphonic band when the schedule "snaps back" to what has been tradition. Starting in the 2<sup>nd</sup> quarter, students will need to go to a PE class.

### CONCERT BAND (284)

Grades 9 10 11 12                      Credits 1.0                      Full Year Course                      Fees:    \$60 uniform

Prerequisites: Selection by Director.

**Course Description:** This course is comprised of all developing musicians in grades 9-12. Assignment to this band is based upon auditions held in the spring of the previous school year.

### PERCUSSION (287)

Grades 9 10 11 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Successful Audition, Completion of Middle School Band Program or Lesson Equivalent

**Course Description:** This course is for students who are percussionists and have completed middle school band. Within the course we will cover music literacy, provide units on various percussion instruments, and rehearse percussion music in ensembles to further improve music literacy, independence and interdependence. During the marching band season (first quarter), we will cover marching band percussion.

## FINE ARTS

### WORLD DRUMMING (288)

Grades 9 10 11 12 Credits 0.5 Semester Course Fees: None

Prerequisites: None

**Course Description:** This course covers a wide variety of music. Student will be introduced to African influenced hand, stick and circle drumming, explore the history of rhythm and how it influences the music we perform and listen to today. This will be achieved by multimedia listening/watching, reflection, and performing on imitation drums, such as djembes, bongos, and bara. We will also explore music literacy by way of entry level exercises on how to read rhythms. This course will fulfill a Fine Arts and Foreign Language credit.

### CONCERT CHOIR (265)

Grades 9 10 11 12 Credits 1.0 Full Year Course Fees: None

Prerequisites: Selection by director.

**Course Description:** This course is for students with previous singing experience. Singing technique and music reading are further developed through rehearsal and performance of a wide variety of musical styles. Members perform in four school concerts, some community events and a large group contest each year. Enrollment is based on auditions held in the spring of the previous school year. Field trips and uniform expenses are the responsibility of the students.

### MEDIA PRODUCTION 1 (519)

Grades 9 10 11 12 Credits 0.5 Semester 1 or 2 Fees: New mini DV tape

Prerequisites: Credit in Communication Technology or Speech

**Course Description:** This is an advanced course for those students interested in radio and television production. In this class both performance and technical skills are taught. Students use video cameras, computers and editing equipment to create their own videos. As a class project students completely write script, record, produce, edit and direct a video magazine. Students also receive information on careers in broadcasting and related field. Credit may be applied in either fine arts or technical education.

### INTRODUCTION TO COMMUNICATION ARTS (225)

Grades 9 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** Emphasis is on basic skills in oral communication. Activities include role playing, basic communication situations, discussion in groups, reading with meaning, non-verbal communication, speaking extemporaneously and public speaking.

### SYMPHONIC BAND (286)

Grades 9 10 11 12 Credits 1.0\* Full Year Course Fees: \$60 uniform  
Credits 4.5\* at grades 10, 11, 12

Prerequisites: Selection by director.

**Course Description:** This course is comprised of the sixty most advanced musicians in grades 9-12. Assignment to this band is based upon auditions held in the spring of the previous school year.

### UT SINGERS (251)

Grades 9 10 11 12 Credits 1.0 Full Year Course Fees: None

Prerequisites: None

**Course Description:** This course is for students with no previous choral singing or music reading experience. The development of singing technique and the ability to read music is emphasized. Members perform in four school concerts each year. Field trips and uniform expenses are the responsibility of the students.

### CERAMICS 1 (203)

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** In this course students are presented with the basic methods of pottery making. Ceramic ware is produced through hand-built pottery, designs on pottery, abstract shapes and kiln firing. Pots are constructed using the pinch, coil and slab methods.

### CERAMICS 2 (202)

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: Credit in Ceramics 1. Selection by instructor.

**Course Description:** Students are presented with the techniques for advanced hand-building in pottery making and the glazing of pottery. Pinch, coil, slab and wheel-thrown ceramics are explored in depth. Advanced methods of decoration of pottery are used.

## FINE ARTS

### COMMERCIAL ART (204)

Grades 10 11 12      0.5 Credits      Semester 1 or 2      Fees: None

Prerequisites: None

**Course Description:** In this course, students explore the various methods and techniques of producing commercial products. Students are assigned projects which include cartooning/comic strips, lettering, logo design, caricature, designing a children's book, new inventive products and a travel poster.

### DESIGN (205)

Grades 10 11 12      Credits 0.5      Semester 1 or 2      Fees: None

Prerequisites: None

**Course Description:** In this course students will explore basic design through line, form, color, space and texture. Design assignments include color theory, optical illusions, wax batik, collagraphs, paper marbling, tile-making and painting.

### DRAWING (206)

Grades 10 11 12      0.5 Credits      Semester 1 or 2      Fees: None

Prerequisites: None

**Course Description:** In this course, students are provided with the opportunity to learn fundamental concepts including the study of line, form, space, texture and color. Techniques emphasized are contour, gesture and value studies through a wide variety of media. Basic skills such as perspective, proportion and composition are studied in depth.

### MEDIA PRODUCTION 2 (520)

Grades 10 11 12      Credits 0.5      Semester 1 or 2      Fees: New mini DV tape

Prerequisites: Credit in Media Production 1.

**Course Description:** This course is for students who have completed Media Production 1 and want to further their learning experience in broadcasting. Students are responsible for not only producing TV shows during class but also for getting footage outside of class whether it is a sporting event, a school activity or a Quad City event. Students will participate in advanced editing methods and advanced reporting.

### PAINTING (208)

Grades 10 11 12      Credits 0.5      Semester 1 or 2      Fees: None

Prerequisites: Credit in Art 1.

**Course Description:** In this course, students will explore different painting mediums such as acrylic, oil, tempera, pastels, pen and ink wash, etc. Students will learn the basics of composition while working with realism, abstraction and the nonobjective in art.

### SCULPTURE (209)

Grades 10 11 12      Credits 0.5      Semester 1 or 2      Fees: None

Prerequisites: None

**Course Description:** In this course, students are provided the opportunity to sculpt using a variety of materials to construct clay sculptures, masks, papermaking, wire sculpture, Paris craft and plaster sculpturing.

### SPEECH 2 (226)

Grades 11 12      Credits 0.5; 3 at BHC      Semester 1      Fees: Black Hawk College tuition rate apply (\$441 for 2016-2017 school year)

Prerequisites: None

**Course Description:** This is the Black Hawk College course Principles of Speech Communication, Speech 101. The course is taught at UTHS by a Black Hawk instructor. It meets 3 days a week and follows the Black Hawk calendar. The course combines communication theory with the practice of oral communication skills. The course emphasizes critical skills in listening, reading, thinking and speaking.

### WATERCOLOR (210)

Grades 10 11 12      Credits 0.5      Semester 1 or 2      Fees: None

Prerequisites: None

**Course Description:** In this course, students are provided opportunities to learn how to paint using a wide variety of watercolor techniques. Color mixing, painting styles, composition, value and abstraction are studied. Assignments include still lifes, landscapes, abstraction and portraits.

## FINE ARTS

### **ADVANCED PLACEMENT ART (212)**

Grades 11 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Selection by instructor. Credit in a one-semester course in the student's area of interest.

**Course Description:** This is a college prep class designed for the advanced art student who has demonstrated both artistic ability and a strong enough interest in art to devote time outside of the normal class time to his/her artwork. The AP Art student must make a commitment to completing the drawing portfolio as designed by the AP College Board. AP Art students are preparing for a career in art. Emphasis is placed on advanced studio work in which students are expected to demonstrate responsibility and proficiency. Assignments include drawing, color design, painting and life-drawing work. Students will complete a senior thesis or concentration during the third quarter. Approve of the instructor is required.

### **\*MUSIC APPRECIATION (266)**

Grades 11 12                      Credits 0.5                      Semester 1 or 2                      Fees:    None

Prerequisites: None

**Course Description:** This course is a study of the literature of Western art music emphasizing important composers and prevailing styles of various eras. Students will learn about the history of jazz, rock, pop, and world music and their importance and relevance in Western and world culture. Listening skills will be developed. Classroom activities will include listening, reading, note-taking and demonstration.

\*Dual credit available; ask your counselor for details.

## HEALTH EDUCATION

Course #.....	Course Name .....	Length .....	Grade(s)
709.....	Health Education .....	Semester .....	9 10

---

---

### HEALTH EDUCATION (709)

Grades 9 10                      Credits 0.5                      Semester 1 or 2                      Fees: None

Prerequisites: None

**Course Description:** This course, which fulfills the State of Illinois health education requirement, includes consideration of nutrition; physical fitness; mental health; alcohol, tobacco and narcotics abuse; communicable and non-communicable diseases. This co-educational class meets daily in a classroom setting. Freshmen and sophomores are required to take this one-semester course in the year they do not take driver education. Students must pass this course in order to fulfill graduation requirements.

## HEALTH OCCUPATIONS

Course #.....	Course Name .....	Length .....	Grade(s)
506.....	Introduction to Health Occupations 1.....	Semester .....	9 10 11
507.....	Introduction to Health Occupations 2.....	Full Year .....	10 11 12

### Area Career Center Courses in Health Occupations

Descriptions for the following Area Career Center courses in Health Occupations are found in the Area Career Center section of this guide.

538V.....ACC Extended Campus Health Occupations 1 (H300) .....Full Year .....11 12  
539V.....ACC Extended Campus Health Occupations 2 (H400) .....Full Year .....12

\*Dual credit available; ask your counselor for details.

---

---

### INTRODUCTION TO HEALTH OCCUPATIONS 1 (506)

Grades 9 10 11                      Credits 0.5                      Semester 1 or 2                      Fees: None

Prerequisites: None

**Course Description:** This is an introduction to various health care careers (nursing, nurse aide, physician, physical therapist, etc.), health care providers (hospitals, clinics, nursing homes, etc.), the history of medicine and health care as well as the life skills required in all health occupations. Field trips, speakers and job-related experiences are included. (H100)

### INTRODUCTION TO HEALTH OCCUPATIONS 2 (507)

Grades 10 11 12                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: None

**Course Description:** In this course, students will continue to explore different aspects of the health field with emphasis on anatomy and physiology. Other content includes wellness and life stages. This course is recommended but not required for students wanting to enroll in Extended Campus Health Occupations (ECHO).

## MATHEMATICS

Course #.....	Course Name .....	Length .....	Grade(s).....
618.....	Accelerated Algebra 2 .....	Full Year .....	9
968.....	Math Support 1 .....	Quarter .....	9
612.....	General Algebra 1 .....	Full Year .....	9
614.....	General Algebra 2 .....	Full Year .....	9
615.....	College Prep Algebra 1 .....	Full Year .....	9
618.....	Accelerated Algebra 2 .....	Full Year .....	9
621.....	Accelerated Geometry.....	Full Year .....	10
619.....	General Geometry .....	Full Year .....	10
620.....	College Prep Geometry .....	Full Year .....	10
636.....	Accelerated Precalculus/Trig .....	Full Year .....	11
969.....	Math Support 2 .....	Quarter .....	11
614.....	General Algebra 2 .....	Full Year .....	11
631.....	College Prep Algebra 2/Trig .....	Full Year .....	11
630.....	Math Literacy for College I and II.....	Full Year .....	12
645.....	College Prep Precalculus .....	Full Year .....	12
650.....	Advanced Placement Calculus.....	Full Year .....	12
617.....	College Prep Applied Statistics.....	Full Year .....	12

### ACCELERATED ALGEBRA 2 (618)

Grade 9                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: Algebra 1 during eighth grade; teacher recommendation and "Exceeds" standards on ISAT.

**Course Description:** This is the first of the accelerated math courses that lead to Calculus and participation in the Advanced Placement Test for college or university credit. Students should know how to solve and graph linear equations. Students in this course will take an in-depth study of polynomials, quadratic functions, radical and rational functions, statistics and probability. It is recommended that students have a TI-84 PLUS Silver Edition Graphic calculator.

### MATH SUPPORT 1 (968)

Grade 9                      Credits 0.25                      One Quarter Course                      Fees: None

Prerequisites: Enrolled in General Algebra 1 and selection by administration. Credit earned may be applied to general graduation requirements only.

**Course Description:** This class assists ninth grade students who require intensive help in math if they are to be successful in General Algebra 1. Identified ninth grade students are assigned to a period of math assistance rather than to a study hall or second elective. It is recommended that students have a TI-30XIIS calculator.

### GENERAL ALGEBRA 1 (612)

Grade 9                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: None

**Course Description:** This is the first course in the four-year General Algebra/Geometry math sequence that covers topics in algebra including solving and graphing linear equations and inequalities, solving and graphing systems of linear equations and inequalities, polynomials and factoring, and solving and graphing quadratic equations. It is recommended that students have a TI-30XIIS calculator.

### GENERAL ALGEBRA 2 (614)

Grade 9                      Credits 1.0                      Full Year Course                      Fees: None

This is the third course in the general math sequence. It includes the study of real numbers, linear equations, quadratic equations, polynomials, rational expressions and equations, radicals, complex numbers, solutions of right triangles, trigonometric ratios, law of sines, probability, central tendencies, normal distributions, and sampling. This course includes the use of the scientific calculator and graphing calculator.

### COLLEGE PREP ALGEBRA 1 (615)

Grades 9                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: Teacher recommendation and "Meets" or "Exceeds" standards on 8<sup>th</sup> grade placement assessments.

**Course Description:** This course serves as a basis for all future math courses and is essential for college prep as well as for many vocational courses. The study of algebra includes the real number line, rational numbers, algebraic operations, linear and quadratic equations, systems of linear equations, graphing and factoring. It is recommended that students have a TI-30XIIS calculator.

## MATHEMATICS

### ACCELERATED ALGEBRA 2 (618)

Grade 9 Credits 1.0 Full Year Course Fees: None

Prerequisite: Algebra 1 during eighth grade; teacher recommendation and "Exceeds" (above the 75<sup>th</sup> percentile) on 8<sup>th</sup> grade math placement assessments.

**Course Description:** This is the first of the accelerated math courses that lead to Calculus and participation in the Advanced Placement Test for college or university credit. Students should know how to solve and graph linear equations. Students in this course will take an in-depth study of polynomials, quadratic functions, radical and rational functions, statistics and probability. It is recommended that students have a TI-84 Graphic calculator.

### ACCELERATED GEOMETRY (621)

Grade 10 Credits 1.0 Full Year Course Fees: None

Prerequisites: Credit in Accelerated Algebra 2.

**Course Description:** This is the second course in the sequence of accelerated math courses that lead to Calculus. This course includes the study of the relationship of lines, polygons and circles as well as space geometry, more depth in the study of coordinate geometry, analytic proof, transformations, volume and the sphere. It is recommended that students have a TI-84 PLUS Silver Edition Graphing calculator.

### GENERAL GEOMETRY (619)

Grades 10 Credits 1.0 Full Year Course Fees: None

Prerequisites: Credit in General Algebra 1

**Course Description:** This is the second course in the four-year General Algebra/Geometry math sequence. Students will induce conclusions by experimenting and by reasoning from given facts. Formal proofs are introduced. This course is required for all those students going on to technical or vocational training. It is recommended that students have a TI-30XIIS calculator.

### COLLEGE PREP GEOMETRY (620)

Grades 10 Credits 1.0 Full Year Course Fees: None

Prerequisites: Credit in College Prep Algebra

**Course Description:** This is the second course in the college prep sequence. It includes the study of the relationships of lines, polygons, circles and construction. Formal proofs are included. It is recommended that students have a TI-30XIIS calculator.

### ACCELERATED PRECALCULUS/TRIG (636)

Grade 11 Credits 1.0 Full Year Course Fees: None

Prerequisites: Credit in Accelerated Geometry and Accelerated Algebra 2.

**Course Description:** This is the third course in the sequence of accelerated mathematics courses. It includes the material for trigonometry and precalculus. Students will develop the skills required for the study of calculus. It is recommended that students have a TI-84 PLUS Silver Edition Graphing calculator.

### MATH SUPPORT 2 (969)

Grade 11 Credits 0.25 One Quarter Course Fees: None

Prerequisites: Enrolled in General Algebra 2 and selection by administration. Credit earned may be applied to general graduation requirements only.

**Course Description:** This class is a continuation of Math Support 1 and will be offered to students who require additional math support during their junior year in General Algebra 2. Identified eleventh grade students are assigned to a period of math assistance rather than to a study hall or second elective. It is recommended that students have a TI-30XIIS calculator.

### GENERAL ALGEBRA 2 (614)

Grades 11 Credits 1.0 Full Year Course Fees: None

Prerequisites: Credit in Geometry and General Algebra 1

**Course Description:** This is the third course in the four-year General Algebra/Geometry math sequence that covers topics in algebra including complex numbers; rational expressions and equations; radical equations; graphing polynomial, exponential and logarithmic functions; comparing linear, quadratic and exponential functions; trigonometric functions and the unit circle; and problems in statistics and probability. It is recommended that students have a TI-30XIIS calculator.

### COLLEGE PREP ALGEBRA 2/TRIG (631)

Grades 11 Credits 1.0 Full Year Course Fees: None

Prerequisites: Credit in College Prep Geometry.

**Course Description:** This is the third course in the college prep sequence. It includes the study of real numbers, solution/graphing of linear sentences and inequalities, polynomials, rational expressions, radicals, complex numbers, solutions of right triangles, trigonometric ratios, law of sines and cosines, radian measure, graphing trigonometric functions, trigonometric identities and equations. This course includes the use of the scientific calculator and graphing calculator. It is recommended that students have a TI-84 PLUS Silver Edition Graphing calculator.

## MATHEMATICS

### **MATH LITERACY FOR COLLEGE I AND II (630)**

Grade 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Appropriate placement.

**Course Description:** This yearlong course is designed to be an alternative developmental mathematics path for students who plan to take general education mathematics and/or general education statistics. This course focuses on developing mathematical maturity through problem solving, critical thinking, data analysis, and the writing and communication of mathematics. It is recommended that students have a TI-30XIIS calculator.

\*Dual credit available; ask your counselor for details.

### **COLLEGE PREP PRECALCULUS (645)**

Grade 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Credit in College Prep Algebra 2/Trig.

**Course Description:** This is the final course in the college prep sequence. Upon successful completion of this course, students are prepared for college-level mathematics courses or for courses in other areas that require an excellent background in high school mathematics. This course includes the use of graphing calculators. It is recommended that students have a TI-84 PLUS Silver Edition Graphing calculator.

### **ADVANCED PLACEMENT CALCULUS (650)**

Grade 12                      Credits 1.0                      Full Year Course                      Fees:    None

Fees:    None

Prerequisites: Credit in Accelerated Precalculus/Trig.

**Course Description:** This is the final course in the sequence of accelerated mathematics courses. It covers the study of limits, derivatives and integrals with applications to areas and volume, and trigonometric functions as well as other applications. Students who successfully complete this course are prepared to participate in advanced placement testing and earn college credit for their experiences. It is recommended that students have a TI-84 PLUS Silver Edition Graphing calculator.

### **COLLEGE PREP APPLIED STATISTICS (617)**

Grade 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Credit in Algebra 2/Trig or Precalculus.

**Course Description:** This course is designed to introduce students to the major concepts and tools for collecting, analyzing and drawing conclusions from data. Students will frequently work on projects involving the hands-on gathering and analysis of real world data. It is recommended that students have a TI-84 PLUS Silver Edition Graphing calculator.

## MODERN LANGUAGES

Course #.....	Course Name .....	Length .....	Grade(s)
336.....	Spanish Native Speakers 1 .....	Full Year .....	9
331.....	Spanish 1 .....	Full Year .....	9 10 11
301.....	French 1 .....	Full Year .....	9 10 11
337.....	College Prep Spanish Native Speakers 2.....	Full Year .....	10 11 12
332.....	College Prep Spanish 2.....	Full Year .....	10 11 12
306.....	College Prep Heritage French .....	Full Year .....	10 11 12
302.....	College Prep French 2.....	Full Year .....	10 11 12
333.....	College Prep Spanish 3.....	Full Year .....	11 12
303.....	College Prep French 3.....	Full Year .....	11 12
*334.....	College Prep Spanish 4.....	Full Year .....	12
304.....	College Prep French 4.....	Full Year .....	12
335.....	Advanced Placement Spanish 4.....	Full Year .....	12
305.....	Accelerated French 4 .....	Full Year .....	12

\*Dual credit available; ask your counselor for details.

The globalization of our community and world requires the need for multilingual personnel in business, social services and government. In addition, the increasing numbers of travelers who wish to communicate with ease in another language make it necessary to place emphasis on understanding and speaking another language. College-bound students need to check entrance and exit requirements concerning language for their university of choice. In addition to the entrance requirement of two consecutive years of the same language, many universities still require collegiate-level courses for graduation. This exit requirement may be fulfilled by successfully completing all four years at the high school level. Some universities may require a proficiency exam in the language.

### SPANISH NATIVE SPEAKERS 1 (336)

Grade 9 Credits 1.0 Full Year Course Fees: \$15 workbook

Prerequisites: Grade of "C" or above in previous language/literature courses.

**Course Description:** Native Speakers 1 is a course designed for students who already speak Spanish as a native or home language. This course emphasizes reading and writing in the Spanish language as well as culture through literature.

### SPANISH 1 (331)

Grades 9 10 11 Credits 1.0 Full Year Course Fees: \$13 workbook

Prerequisites: None

**Course Description:** See course description under French 1.

### FRENCH 1 (301)

Grades 9 10 11 Credits 1.0 Full Year Course Fees: \$16 workbook

Prerequisites: None

Course Description: French 1 and Spanish 1 are introductory course for students interested in the French or Spanish language. These courses concentrate on learning the basics of the languages and emphasize the basic conversational skills. They also explore the cultures, traditions and arts of the French- and Spanish-speaking countries.

### COLLEGE PREP SPANISH NATIVE SPEAKERS 2 (337)

Grades 10 11 12 Credits 1.0 Full Year Course Fees: \$15 workbook

Prerequisites: Credit in Spanish Native Speakers 1

**Course Description:** This course, for native or near-native speakers of Spanish, is designed to teach Spanish as a language and not as a foreign language. It is a continuation of Native Speakers 1 (336). Students will continue to develop and improve their reading, writing and grammar skills for "academic" or standard Spanish. Students will also continue to learn to appreciate the depth and diversity of Hispanic culture in both the United States and abroad.

### COLLEGE PREP SPANISH 2 (332)

Grades 10 11 12 Credits 1.0 Full Year Course Fees: \$13 workbook

Prerequisites: Credit in Spanish 1.

**Course Description:** See course description under CP French 2.

## MODERN LANGUAGES

### COLLEGE PREP HERITAGE FRENCH (306)

Grades 10 11 12 Credits 1.0 Full Year Course Fees: \$\$\$ workbook

Prerequisites: Native or near native level of written and spoken French to be determined by instructor and pre-test.

**Course Description:** This course, for native or near-native and/or heritage speakers of French, is designed to foster and maintain the French language and culture of its participants. Students will continue to develop and improve their reading, writing and grammar skills for “academic” or standard French. Students will also continue to learn to appreciate the depth and diversity in the “francophone” culture throughout the world.

### COLLEGE PREP FRENCH 2 (302)

Grades 10 11 12 Credits 1.0 Full Year Course Fees: \$16 workbook

Prerequisites: Credit in French 1.

**Course Description:** CP French 2 and CP Spanish 2 are the second year courses for students who want to continue French or Spanish and go beyond the basics of the target languages. These courses further the study of the languages by introducing more than basic conversational French and Spanish and explore more in cultures, traditions and the art of Spanish- and French-speaking countries.

### COLLEGE PREP SPANISH 3 (333)

Grades 11 12 Credits 1.0 Full Year Course Fees: \$13 workbook

Dictionary

Prerequisites: Credit in CP Spanish 2.

**Course Description:** See course description under CP French 3.

### COLLEGE PREP FRENCH 3 (303)

Grades 11 12 Credits 1.0 Full Year Course Fees: \$16 workbook

Dictionary

Prerequisites: Credit in CP French 2.

**Course Description:** CP French 3 and CP Spanish 3 are the third year courses for students who have a strong interest in continuing their study of the target languages. These courses continue where CP French 2 and CP Spanish 2 leave off in furthering the knowledge of the languages. Students are introduced to reading and history and a more in-depth look at cultures, traditions and art of the French- and Spanish-speaking countries.

### \*COLLEGE PREP SPANISH 4 (334)

Grade 12 Credits 2.0 Full Year Course Fees: \$82 workbook

Dictionary from previous year

Prerequisites: Credit in CP Spanish 3.

**Course Description:** See course description under CP French 4.

\*Dual credit available; ask your counselor for details.

### COLLEGE PREP FRENCH 4 (304)

Grade 12 Credits 1.0 Full Year Course Fees: \$25 workbook

Dictionary from previous year

Prerequisites: Credit in CP French 3 or CP Spanish Native Speakers 2.

**Course Description:** CP French 4 and CP Spanish 4 continue where CP French 3 and CP Spanish 3 leave off. These courses are geared toward highly motivated, college-bound students. Emphasis is on in-depth reading, listening, writing and speaking in the target language.

### ADVANCED PLACEMENT SPANISH 4 (335)

Grade 12 Credits 1.0 Full Year Course Fees: \$25 workbook

Prerequisites: Credit in CP Spanish 3

**Course Description:** AP Spanish is an advanced placement course for students who have a very strong interest and ability in the Spanish language. Students must demonstrate a strong ability in the language and be ready to participate in the entire class sessions in the target language. The AP curriculum is based on College Board approved materials. College texts are used to review, practice and teach material in the target language. Students will also look into the history, social and economic factors of the Spanish-speaking countries. College credit will be given to those students who take the AP exam and pass successfully. Credit is given based on the score and the institution of choice.

### ACCELERATED FRENCH 4 (305)

Grade 12 Credits 1.0 Full Year Course Fees: \$25 workbook

Prerequisites: Credit in CP French 3.

**Course Description:** Students must demonstrate a strong ability in the language and be ready to participate in the entire class sessions in the target language. The curriculum is based on College Board approved materials. College texts are used to review, practice and teach material in the target language. Students will also look into the history, social and economic factors of the French-speaking countries. College credit will be given to those students who take the AP exam and pass successfully. Credit is given based on the score and the institution of choice.

PHYSICAL EDUCATION

Course #.....	Course Name .....	Length .....	Grade(s).....
711 .....	Physical Education .....	Each Quarter .....	9 10 11 12

**PHYSICAL EDUCATION (711)**

Grades 9 10 11 12	Credits 0.25	Each Quarter	Fees: \$8 PE shirt mandatory \$15 PE uniform (shirt/shorts) \$10 PE shorts optional
-------------------	--------------	--------------	---

NOTE: Fees vary for selected PE courses (bowling, billiards, etc.).

Prerequisites: None

All students must enroll in Physical Education for each quarter except while enrolled in Health or Driver Education. Students must complete thirteen quarters of physical education and must pass a minimum of eleven quarters **including the final quarter taken.**

A student who presents a written excuse from his/her doctor will be excused from physical activity classes. If a student is permanently excused from physical education, the written doctor's statement must be renewed each year.

Physical education classes meet five days each week. Students are required to wear a uniform to participate. All classes are co-educational and freshmen through seniors are integrated together. Each quarter students select their PE activities from a variety of offerings. Team sports, individual sports, fitness, swimming, first aid, CPR, bowling, golf and many more "lifetime skills" are taught. All students are required to take the following courses:

- Swimming – 2 units
- Fitness is taught twice each week throughout the year.
- Rhythmics – 1 unit
- First Aid / CPR – 1 unit

Paid activities such as billiards, bowling, etc. are offered during the course of the year. **Fees for these physical education units cannot be waived.** The fees must be paid in cash or a check made payable to UTHS for the designated amount prior to the activity. The full amount must be paid in advance and there are no refunds for absences.

PE exemptions may be granted to junior and senior varsity athletes. The length of the exemption is determined by the study hall/course selected to replace PE in the schedule. An exemption does not change the total credits needed for graduation. A maximum of five courses may be taken for weighted credit. Contact your counselor for details.

**PRE-ENGINEERING / ENGINEERING / ENGINEERING TECHNOLOGY**

<b>Course #.....</b>	<b>Course Name .....</b>	<b>Length .....</b>	<b>Grade(s).....</b>
515.....	Principles of Engineering (POE) (21004A001) .....	Full Year .....	9 10
514.....	Introduction to Engineering Design (IED) (21006A001).....	Full Year .....	9 10 11
575.....	Engineering Design and Development (EDD) (21007A002).....	Full Year .....	11 12

**PRINCIPLES OF ENGINEERING (POE) (PLTW) (515)**

Grades 9 10                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: None

**Course Description:** This course helps students understand the field of engineering/engineering technology. Exploring various technology systems and manufacturing processes helps students learn how engineers and technicians use math, science, and technology in an engineering problem solving process to benefit people. The course also includes concerns about social and political consequences of technological change.

**INTRODUCTION TO ENGINEERING DESIGN (IED) (PLTW) (514)**

Grades 9 10 11                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Completion of eighth grade algebra and a sincere career/college interest in engineering. Preference will be given to ninth and tenth grade students.

**Course Description:** This course teaches problem-solving skills using a design development process. Models of product solutions are created, analyzed and communicated using solid modeling computer design software.

**ENGINEERING DESIGN AND DEVELOPMENT (EDD) (PLTW) (575)**

Grades 11 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Introduction to Engineering Design / Principles of Engineering or instructor approval.

**Course Description:** This course is an advanced course in which students demonstrate mastery of knowledge and skills from previous pre-engineering courses to develop an original product or machine design. In groups using project-based learning, student's research, design, and construct a solution to an engineering problem. Students apply principles developed in the preceding courses and are guided by an industry mentor. Students must present progress reports, submit a final written report, and defend their solutions to a panel of outside reviewers at the end of the course. Students are placed in management situations in production operations to develop leadership and entrepreneurship skills. Students are responsible for scheduling, pricing, procuring materials and equipment, and the maintaining of equipment.

## READING

Course #.....	Course Name .....	Length .....	Grade(s).....
974.....	Reading 1 .....	Full Year .....	9.....
975.....	Reading 2 .....	Full Year .....	10.....

---

---

### READING 1 (974)

Grade 9                      Credits 1.0              Full Year Course                      Fees:    None

Prerequisites: Selection by program director.

**Course Description:** In this class, ninth grade students will use the Read 180 program to improve reading and writing skills. The program includes whole group instruction, small group instruction and computer software that adapts lessons to the needs of each student.

### READING 2 (975)

Grade 10                      Credits 1.0              Full Year Course                      Fees:    None

Prerequisites: Selection by program director.

**Course Description:** This class is a continuation of Reading 1 and is offered to the students who require additional reading support during their sophomore year.

## SCIENCE

Course #.....	Course Name .....	Length .....	Grade(s) ..
806.....	Accelerated Biology .....	Full Year .....	9.....
808.....	College Prep Biology .....	Full Year .....	9 10 11
810.....	Life Science .....	Full Year .....	9 10 11
826.....	Accelerated Chemistry .....	Full Year .....	10
811.....	Physical Science .....	Full Year .....	10 11
828.....	College Prep Chemistry.....	Full Year .....	10 11 12
801.....	Earth and Space Science .....	Full Year .....	11 12
829.....	Advanced Placement Chemistry.....	Full Year .....	11 12
814.....	Advanced Placement Biology .....	Full Year .....	11 12
816.....	College Prep Biotechnology .....	Full Year .....	11 12
840.....	College Prep Physics .....	Full Year .....	11 12
841.....	Accelerated Physics .....	Full Year .....	11 12

### ACCELERATED BIOLOGY (806)

Grade 9                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: None

**Course Description:** This is an enriched program that serves as a prerequisite for the advanced placement science courses. This course is designed to challenge high ability students who should attain a depth of understanding of biological fundamentals and a reasonable competence in dealing with biological concepts and laboratory skills. Emphasis is placed on in-depth and expanded views of such topics as the nature and continuity of life, microbiology, multi-cellular plants, the invertebrates-vertebrates, genetics, and ecological relationships. As part of the lab experience, students will complete dissections.

### COLLEGE PREP BIOLOGY (808)

Grades 9 10 11                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: None

**Course Description:** This course is designed for the college-bound student desiring a broad study of the fundamentals and principles of the living world. It is a laboratory-oriented course utilizing numerous hands-on activities. CP Biology involves the systems approach starting with the basic unit of life—the cell—continuing through the simple one-celled organisms and moving to the most complex multi-celled organisms including plants and animals. As part of the lab experience, students will complete dissections.

### LIFE SCIENCE (810)

Grades 9 10 11                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: None

**Course Description:** This is an introductory study into the life sciences. Current meaningful knowledge, critical thinking and simple laboratory skills are stressed. As part of the lab experience, students may complete dissections.

### ACCELERATED CHEMISTRY (826)

Grade 10                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: Credit in Accelerated Algebra or College Prep Algebra and Accelerated Biology.

**Course Description:** This is an enriched program that serves as a prerequisite for the advanced placement science courses. This course is designed to challenge high ability students by dealing with concepts of chemistry and laboratory skills in depth.

### PHYSICAL SCIENCE (811)

Grades 10 11                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: Credit in one unit of science.

**Course Description:** This is an introductory study of physical science. Current meaningful knowledge, critical thinking and laboratory skills are stressed.

### COLLEGE PREP CHEMISTRY (828)

Grades 10 11 12                      Credits 1.0                      Full Year Course                      Fees: None

Prerequisites: Credit in College Prep Biology and CP Algebra or General Algebra 1 completed with an A or B average.

**Course Description:** This course is designed for the college-bound student desiring a broad laboratory-based background in inorganic descriptive chemistry. CP Chemistry formulas, equations and stoichiometric calculations are presented. Students will be required to calculate and solve chemical problems and perform laboratory experiments in order to develop skills in experimental application.

## SCIENCE

### **EARTH AND SPACE SCIENCE (801)**

Grades 11 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Credit in two units of science.

**Course Description:** This is an introductory study into Earth and space science. Current meaningful knowledge, critical thinking and laboratory skills are stressed.

### **ADVANCED PLACEMENT CHEMISTRY (829)**

Grades 11 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Credit in Chemistry and Biology

**Course Description:** This is a college-level course offered to college-bound students who, through success in advanced placement exams, can earn college credit and appropriate college placement. Topics such as the basic concepts of thermodynamics are presented in considerable depth. Emphasis is placed on chemical calculations involving a high degree of mathematical understanding and application. Laboratory experiences include experiments in which each student makes observations of chemical substances and reactions, records data, and calculates and interprets results based on obtained quantitative data.

### **ADVANCED PLACEMENT BIOLOGY (814)**

Grades 11 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Credit in Biology and Chemistry

**Course Description:** This is a college-level course offered to college-bound students who, through success in advanced placement exams, can earn college credit and appropriate college placement. The emphasis of the course involves four big ideas: 1) Evolution—how the process of evolution drives the diversity and unity of life; 2) Cellular Processes (Energy and Communication)—how biological systems utilize free energy and molecular building blocks to grow, reproduce and maintain dynamic homeostasis; 3) Genetics and Information Transfer—how living systems store, retrieve, transmit and respond to information essential to life processes; and 4) Interactions—how biological systems interact and possess complex properties. Laboratory experiments, Inquiry experiences and observations will be an integral part of the advanced placement course. As part of the lab experience, students will complete dissection.

### **COLLEGE PREP BIOTECHNOLOGY (816)**

Grades 11 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Credit in two years of science.

**Course Description:** This course is designed for students interested in experimental science. Instruction includes many of the lab skills and procedures in today's modern technical fields. Students discuss and investigate issues in the areas of microbiology, environmental science, food technology, genetics, genetic engineering, DNA fingerprinting, cloning and bioethics.

### **COLLEGE PREP PHYSICS (840)**

Grades 11 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Credit in or concurrent enrollment in Algebra 2/Trig; credit in two units of science.

**Course Description:** In this course, students will study the interrelation of matter and energy. It acquaints students with their physical environment through the study of mechanics, heat, light, sound, electricity and magnetism, nuclear energy, and quantitative physics. The course content is developed through demonstrations, class discussions and laboratory experiments to meet the needs of students who are preparing for college.

### **ACCELERATED PHYSICS (841)**

Grades 11 12                      Credits 1.0                      Full Year Course                      Fees:    None

Prerequisites: Credit in or concurrent enrollment in Algebra 2/Trig; credit in Accelerated Biology and Accelerated Chemistry.

**Course Description:** This is a rigorous course for students who excel in mathematics and who plan to pursue a career in chemistry, mathematics, physics, medicine or engineering.

## SOCIAL STUDIES

Course #.....	Course Name .....	Length .....	Grade(s).....
911 .....	Far East (offered in odd-numbered years).....	Semester .....	9 10 11 12
913 .....	Middle East/Africa (offered in odd-numbered years) .....	Semester .....	9 10 11 12
914 .....	Modern Europe (offered in even-numbered years).....	Semester .....	9 10 11 12
905 .....	College Prep World History .....	Full Year .....	10
907 .....	World History .....	Full Year .....	10
951 .....	World Studies .....	Full Year .....	10
920 .....	College Prep U.S. History.....	Full Year .....	11
930 .....	U.S. History .....	Full Year .....	11
952 .....	American Studies .....	Full Year .....	11
961 .....	Applied Economics .....	Semester .....	11 12
948 .....	Psychology .....	Semester .....	12
950 .....	Sociology.....	Semester .....	12
*944.....	U.S. Government/Civics .....	Semester .....	12
953.....	Western Civilization .....	Full Year .....	12

\*Dual credit available; ask your counselor for details.

### FAR EAST (911)

Grades 9 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None. **This course is offered only in odd-numbered years (2016-17).**

**Course Description:** In this course, students are introduced to the people of China, Japan, India and Southeast Asia. Topics range from the Samurai warriors of ancient Japan to life in modern Communist China.

### MIDDLE EAST/AFRICA (913)

Grades 9 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None. **This course is offered only in odd-numbered years (2016-17).**

**Course Description:** In this course, students are introduced to the people, geography, political history and current affairs of the continent of Africa and the area known as the Middle East.

### MODERN EUROPE (914)

Grades 9 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None. **This course is offered only in even-numbered years (2015-16).**

**Course Description:** In this course, students will study European political, economic, social and cultural movements from the 20th Century to the present. A focus will be placed on World War I, World War II, the Cold War, IRA Movement, and Current Day European Concepts/Issues.

### COLLEGE PREP WORLD HISTORY (905)

Grade 10 Credits 1.0 Full Year Course Fees: None

Prerequisites: Must be enrolled in CP English. Computer Technology A recommended.

**Course Description:** In this course there is an emphasis on the interpretation of history through a chronological approach that focuses on the development of critical thinking skills. Students can expect an in-depth study of significant events in world history, the analysis of primary source documents and the development of their writing skills.

### WORLD HISTORY (907)

Grade 10 Credits 1.0 Full Year Course Fees: None

Prerequisites: Enrollment in English 2

**Course Description:** This course provides a chronological study of major events in world history from the rise of ancient civilizations through the 20th Century. The course emphasizes the understanding of basic historical events, knowledge of geography, political, economic and social systems while improving reading, writing and critical thinking skills of the students.

### WORLD STUDIES (951)

Grade 10 Credits 1.0 Full Year Course Fees: None

Prerequisites: Selection by program director. Computer Technology A recommended.

**Course Description:** This class meets for two consecutive periods each day and allows selected sophomores to earn credit for College Prep English 2 and College Prep World History through the study of the cultural, political, economic, social and intellectual history of the world. Students will do extensive discussion, writing and analytical reading to build critical thinking skills desirable for later academic work.

## SOCIAL STUDIES

### COLLEGE PREP U.S. HISTORY (920)

Grade 11 Credits 1.0 Full Year Course Fees: None

Prerequisites: Must also be enrolled in College Prep English.

**Course Description:** This is a thematically-chronological approach to the discipline. Students will examine the founding of the United States, its growing pains, conflicts, trials and tribulations as well as successes. Topics will range from political to social history from the American Revolution to the more current topics present in United State history. Students will develop, use, and hone transferrable historical skills including analysis, evaluation, and interpretation by participating in discussions, essay writing and a substantial research project.

### U.S. HISTORY (930)

Grade 11 Credits 1.0 Full Year Course Fees: None

Prerequisites: Enrollment in English 3

**Course Description:** This is a chronological approach to the discipline. Students will examine the founding of the United States, its growing pains, conflicts, trials and tribulations as well as successes. Topics will range from political to social history from the American Revolution to the more current topics present in United States history. Students will develop, use and hone transferrable historical skills including analysis, evaluation, and interpretation by participating in discussions, etc.

### AMERICAN STUDIES (952)

Grade 11 Credits 1.0 Full Year Course Fees: None

Prerequisites: Selection by program director. Computer Technology A recommended.

**Course Description:** This class meets for two consecutive periods each day and allows selected juniors to earn credit for College Prep English 3 and College Prep U.S. History through the study of the cultural, political, economic, social and intellectual history of the United States. Students do extensive discussion, writing and analytical reading to build critical thinking skills desirable for later collegiate work.

### APPLIED ECONOMICS (961)

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None. This course is recommended for College Prep students.

**Course Description:** This course is directed toward college-bound students. It requires actual operation of a small business in the classroom as part of the study of general economics. Topics are studied from the perspective of business, the consumer, labor and government. This course features student projects and business advisors in the classroom. **This course fulfills the state consumer education requirement.**

### PSYCHOLOGY (948)

Grade 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** Psychology at UTHS is the study of the human mind and human behaviors. Students will be introduced to the history of psychology, different approaches to psychological research, the stages of development, memory, consciousness, learning, intelligence, and abnormal behaviors. Students will work with psychological studies and case studies in order to enhance their understanding of the stated topics.

### SOCIOLOGY (950)

Grade 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** This is the study of people as they interact with each other in society. Major topics covered in this course include deviance, minorities, social problems, marriage and the family and other important social issues.

### \*U.S. GOVERNMENT/CIVICS (944)

Grade 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** This course emphasizes the basic elements of American federalism and political socialization – the development of knowledge, skills, and attitudes necessary to become a responsible citizen. The course content is focused on key government institutions, service learning, democratic processes, and current and controversial issues. Activities are designed to promote critical thinking and problem solving skills necessary to effectively participate in our democracy. This course also includes a service learning component.

\*Dual credit available; ask your counselor for details.

## SOCIAL STUDIES

### **WESTERN CIVILIZATION (953)**

Grade 12                      Credits 1.0              Full Year Course                      Fees:    None

Prerequisites: Selection by program director. Computer Technology A recommended.

**Course Description:** This class meets for two consecutive periods each day and allows selected seniors to earn credit for College Prep English 4 and a full credit of senior College Prep Social Studies which includes U.S. Government. This course emphasizes mature inquiry into the cultural, political, economic, social and intellectual development of Western mankind as a means of developing critical thinking skills that are desirable for the successful university student.

## SPECIAL EDUCATION

Course #.....	Course Name .....	Length .....	Grade(s).....
771.....	English 1.....	Full Year.....	9
781.....	Mathematics 1.....	Full Year.....	9
785.....	Survey Science 1.....	Full Year.....	9
795.....	Study Skills 1.....	Full Year.....	9
769.....	Health and Safety Education.....	Semester.....	9
754.....	Basic Business Applications 1.....	Semester.....	9 10 11 12
791.....	Basic Family and Consumer Sciences 1.....	Semester.....	9 10 11 12
772.....	English 2.....	Full Year.....	10
782.....	Mathematics 2.....	Full Year.....	10
792.....	Survey Science 2.....	Full Year.....	10
786.....	World History.....	Full Year.....	10
796.....	Study Skills 2.....	Semester.....	10 11
755.....	Basic Business Applications 2.....	Semester.....	10 11 12
794.....	Basic Family and Consumer Sciences 2.....	Semester.....	10 11 12
773.....	English 3.....	Full Year.....	11
793.....	Mathematics 3.....	Full Year.....	11
787.....	U.S. History.....	Full Year.....	11
774.....	English 4.....	Full Year.....	12
783.....	Consumer Education.....	Semester.....	11 12
788.....	U.S. Government.....	Semester.....	11 12

### Special Services Program: Possible Education Environments

If a student has an active Individual Education Plan (IEP) and receives services, these service continuum options exist:

1. Special education services provided for 20% or less of the day outside regular classes. Related services may include consultation, speech/language therapy, occupational or physical therapy, special transportation, paraprofessional assistance, counseling or resources room assistance.
2. Special education services provided for 21%-60% of the day outside regular classes. Direct services may be provided in academic area(s) with resources room assistance for elective classes.
3. Special education services provided for over 60% of the day outside of regular classes. Direct services in the form of special education classes with integration for some classes in standard program. Some students may only be integrated for lunch, PE and building passing times.
4. Special education services for 100% of the day in a separate public school building. Services may be provided in an alternate building with a separate program that provides more structure such as the Phoenix Program in Carbon Cliff or other available programs.

### Special Education Course Descriptions

District 30 is committed to providing a quality education in the least restrictive environment for all special education students. Students enrolled in special education classes must meet educational guidelines for Special Education as established by the Illinois State Board of Education and have the recommendation of the case manager. The course content parallels what is offered in the standard program and is based on Illinois Learning Standards. An annual review conference is held with students, parents/guardians and staff to develop an Individual Education Plan.

## SPECIAL EDUCATION

### ENGLISH 1 (771)

Grade 9 Credits 1.0 Full Year Course Fees: None  
Full Year Course 1.0 Credit  
Fees: None

Placement determined by IEP.

**Course Description:** This course is designed to strengthen basic reading skills, reading strategies, vocabulary, grammar and writing skills, and oral communication. It will provide instruction with a variety of reading genres and writing for various purposes.

### MATHEMATICS 1 (781)

Grade 9 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** This course is designed to help students develop and strengthen computational skills in the four arithmetic operations. Emphasis is placed on patterns, ratios, proportions, percents, expressions and equations. Students will learn to simplify, evaluate and solve equations.

### SURVEY SCIENCE 1 (785)

Grade 9 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** In this course students are introduced to basic concepts in physics, geology and biology while developing reading and writing skills. Internet, Word, PowerPoint and SMART technology will be used to enhance the learning environment.

### STUDY SKILLS 1 (795)

Grade 9 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** This course is for special education students who are totally mainstreamed. The class is designed to help students learn how to study for tests, take notes, listen and prepare projects.

### HEALTH AND SAFETY EDUCATION (769)

Grade 9 Credits 0.5 Semester 1 or 2 Fees: None

Placement determined by IEP.

**Course Description:** This course is designed to improve students' knowledge of health and wellness. Special emphasis is placed on mental and emotional health, safety education, human sexuality, infectious diseases and the use/misuse of drugs.

### BASIC BUSINESS APPLICATIONS 1 and 2 (754 and 755)

Grades 9 10 11 12 Credits 0.5 Semester 1 Fees: None

Placement determined by IEP.

**Course Description:** In this course students are taught keyboarding and computer skills for personal and career use.

### BASIC FAMILY AND CONSUMER SCIENCES 1 and 2 (791 and 794)

Grades 9 10 11 12 Credits 0.5 Semester 2 Fees: None

Placement determined by IEP.

**Course Description:** In this course students explore the areas of personal and family relationships, child care, foods, clothing, and independent living.

### ENGLISH 2 (772)

Grade 10 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** This course is designed to strengthen basic reading skills, reading strategies, oral communication, grammar, and writing skills. It will provide exposure and instruction to a variety of reading genres and writing for various purposes.

### MATHEMATICS 2 (782)

Grade 10 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** Students will use special and regular education books with a modified curriculum to better prepare and improve their algebraic and geometric skills as they relate to state standards and other testing situations.

## SPECIAL EDUCATION

### **SURVEY SCIENCE 2 (792)**

Grade 10 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** In this course students continue the study of the basic sciences including plants, animals, chemistry, astronomy and electricity. Reading and writing skills are developed through the use of Internet, SMART Board and Kagan activities, and text materials.

### **WORLD HISTORY (786)**

Grade 10 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** This course provides students with a regional approach and a focus on major developments in the world since 1500 A.D. A broad background in Africa, Asia, Latin America, Canada, the Middle East and the former Soviet Union is provided. This course emphasizes the understanding of basic historical events, the examination of economic systems, the development of map reading skills and the improvement of reading and writing skills.

### **STUDY SKILLS 2 (796)**

Grades 10 11 Credits 0.5 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** This course is designed for students enrolled in five or more regular education classes. Students will learn how to study for tests, take notes and prepare projects. A special emphasis is placed on preparation for the ACT and PSAT exams. The ACT/PSAT preparation includes general test taking strategies, practice exams and an individualized review plan.

### **ENGLISH 3 (773)**

Grade 11 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** This course is intended primarily for students who will not pursue a degree program beyond high school but who may continue their education at a community college or technical school. Students will continue to review and refine the reading, writing, communication and study skills introduced in previous English classes through various reading and writing assignments. Particular attention will be directed toward ACT/PSAT test preparation by using practice tests, computer programs and practical strategies to improve performance. In addition, students will practice reading and writing skills that can be applied to practical life situations.

### **MATHEMATICS 3 (793)**

Grade 11 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** Mathematics 3 is designed to help students develop and strengthen computation, algebra and geometry skills.

### **U.S. HISTORY (787)**

Grade 11 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** In this course students are provided with a general understanding of United States history from colonial times to modern day. A special emphasis is placed on basic historical concepts, interpreting history through primary sources and applying writing and reading skills.

### **ENGLISH 4 (774)**

Grade 12 Credits 1.0 Full Year Course Fees: None

Placement determined by IEP.

**Course Description:** Students will review and refine the reading, literacy and writing skills introduced in their previous English classes. Special focus will center on pre- and post-reading strategies to improve reading comprehension and content area reading. In addition, students will practice writing skills that can be applied to practical life situations, specifically form completions and job-seeking paperwork.

### **CONSUMER EDUCATION (783)**

Grades 11 or 12 Credits 0.5 Semester 1 or 2 Fees: None

Placement determined by IEP.

**Course Description:** This course is designed to help students strengthen their math skills in applied situations—renting an apartment, researching the best buy, checking accounts, banking needs and budgets. **This course fulfills the state consumer education requirement.**

## SPECIAL EDUCATION

### **U.S. GOVERNMENT (788)**

Grade 11 or 12      Credits 0.5      Semester 1 or 2      Fees: None  
Placement determined by IEP.

**Course Description:** In this course students are provided with an understanding of the basic functions of federal, state and local governments. Included in this class are activities designed to build skills in reading and writing.

### **PROJECT SUCCESS**

These classes are provided for students who require a more structured environment to achieve academically and behaviorally.

### **LIFE SKILLS**

These courses are designed to meet the needs of those students whose needs cannot be met in the traditional classroom setting and would be better met through community-based instruction.

## TECHNOLOGY EDUCATION

Course #.....	Course Name .....	Length .....	Grade(s).....
510.....	Introduction to Technology & Engineering 1 (21052A001) .....	Semester .....	9 10
511.....	Introduction to Technology & Engineering 2 (21052A002) .....	Semester .....	9 10
502.....	Drafting 1 (21102A001) .....	Semester .....	10 11 12
503.....	Drafting 2 (21103A001/21106A001) .....	Full Year .....	11 12
517.....	Graphic Arts (1102A001).....	Semester .....	10
519.....	Graphic Screen Printing (11002A001).....	Semester .....	9 10
521.....	Metalworking Technology 1 (13203A005) .....	Semester .....	10 11 12
522.....	Metalworking Technology 2 (13203A006) .....	Semester .....	11 12
532.....	Welding 1 (13207A001).....	Semester .....	10 11 12
533.....	Welding 2 (13207A002).....	Full Year .....	11 12
535.....	Woodworking 1 (13052A001) .....	Semester .....	10 11 12
534.....	Advanced Woodworking Production (17007A001) .....	Full Year .....	11 12
508.....	Basic Auto/Home Repair (20001A001).....	Semester .....	10 11 12

### Area Career Center Courses in Technology Education

Descriptions for the following Area Career Center courses in Technology Education are found in the Area Career Center section of this guide.

542V.....	ACC Auto Body 1 (20116A001).....	Full Year .....	11 12
543V.....	ACC Auto Body 2 (20116A002).....	Full Year .....	12
544V.....	ACC Auto Mechanics 1 (20104A001).....	Full Year .....	11 12
545V.....	ACC Auto Mechanics 2 (20104A002).....	Full Year .....	12
550V.....	ACC Building Trades 1 (17002A001) .....	Full Year .....	11 12
551V.....	ACC Building Trades 2 (17002A002) .....	Full Year .....	12
560V.....	ACC Design and Drafting 1 (21103A001/21106A001) .....	Full Year .....	11 12
561V.....	ACC Design and Drafting 2 (21103A002/21106A002) .....	Full Year .....	12
597V.....	ACC Fire Science/Fire Fighting 1 (15152A001).....	Full Year .....	11 12
598V.....	ACC Emergency Responder / Fire Fighting 2..... (14055A001/15152A002)	Full Year .....	12
564V.....	ACC Graphic Arts 1 (11154A001) .....	Full Year .....	11 12
565V.....	ACC Graphic Arts 2 (11154A002) .....	Full Year .....	12
582V.....	ACC Law and Public Safety 1 (15051A003).....	Full Year .....	11 12
583V.....	ACC Law and Public Safety 2 (15051A004).....	Full Year .....	12
573V.....	ACC Manufacturing Technology 1 (13055A001) .....	Full Year .....	11
574V.....	ACC Manufacturing Technology 2 (13055A002) .....	Full Year .....	12
570V.....	ACC Welding 1 (13207A001) .....	Full Year .....	11 12
571V.....	ACC Welding 2 (13207A002) .....	Full Year .....	12
548V.....	ACC Woodworking Trades 1 (17007A001) .....	Full Year .....	11 12
549V.....	ACC Woodworking Trades 2 (17007A002) .....	Full Year .....	12

### Pre-Engineering/Engineering Courses

Descriptions for the following Project Lead the Way courses are found in the Pre-Engineering/Engineering section of this guide.

515.....	Principles of Engineering (POE) (21004A001) .....	Full Year .....	9 10
514.....	Introduction to Engineering Design (IED) (21006A001).....	Full Year .....	9 10 11
575.....	Engineering Design and Development (EDD) (21007A002).....	Full Year .....	11 12

### INTRODUCTION TO TECHNOLOGY AND ENGINEERING 1

Grades 9, 10 Credits 0.5/1 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** Introduction to Technology and Engineering 1 is an entry level course into Technology Education classes. This course is designed to engage the student in exploring and understanding the impact and inter-relatedness involved in the technical areas of information processing and communication, manufacturing, and construction technologies and their related occupations. This hands-on class is project-based, concerning print reading, measurements and part layout, computer aided drawing and design, tool identification and use, and machine safety while utilizing the processes and applications needed to manufacture things and construct buildings in a global society. This class leads into future Drafting and Design, Engineering, Woodworking, Metals, Building Trades, and Welding course pathways in UTHS and the Area Career Center.

## TECHNOLOGY EDUCATION

### INTRODUCTION TO TECHNOLOGY AND ENGINEERING 2

Grades 9, 10 Credits 0.5/1 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** This course is designed to engage the student in exploring and understanding the impact and inter-relatedness involved in the technical areas of robotics, energy and power, and transportation technologies and their related occupations. This class is hands-on and project-based, studying the emerging robotics systems overtaking existing manufacturing and transporting systems, the energy systems needed to power our modern world, and the various transportation systems employed to move goods and people in a global society. Electricity and electronics, conventional and "green alternative" energy systems, automotive systems and operations, computer operated robotics, and their related process and applications will be explored in this class. This class leads into future Engineering, Electronics, Auto Mechanics, and Auto Body course pathways in UTHS and the Area Career Center.

### DRAFTING 1 (502) (DRAFTING)

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** In this course students are introduced to the basics of mechanical and architectural drafting. Students will use a state-of-the-art drafting lab and computer-aided drafting (CAD) software to produce the drawing projects. Students will use the most current versions of 3D modeling software to create engineering and design projects in both mechanical and architectural applications. Career options will also be explored.

### DRAFTING 2 (503) (ARCHITECTURAL DRAFTING / MECHANICAL DRAFTING 1)

Grades 11 12 Credits 1.0 Full Year Course Fees: None

Prerequisites: Credit in Drafting 1

**Course Description:** In this course students with prior drafting experience are offered the chance to continue exploration of many drafting, engineering and design practices. Students will use 3D modeling CAD software to explore part design, mechanical engineering experiences and mechanical drafting during the first semester. During the second semester students will use the CAD software architectural desktop to design, draw and plot a complete set of house plans for a residential house. Students who desire a career in the drafting or engineering related field will find this course a must since colleges and employers often expect prior CAD training.

### GRAPHIC ARTS (517) (COMMUNICATIONS TECHNOLOGY)

Grade 10 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** Training in the graphic arts/printing industry is offered. The program provides an introduction to Desktop Publishing using Adobe programs, design and layout, digital photography, plate making, press preparation and operation, bindery operations, silk-screening, heat process operation and graphic sign making.

### GRAPHIC ARTS (518) (COMMUNICATIONS TECHNOLOGY)

Grade 10 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** This is a course designed to foster an awareness and understanding of the technologies used in textile image printing. Students gain experience in the areas of design and layout, computers in communication, photography, graphic arts, and selection of type styles. Instruction will include use of color and color registration, balance and proportion in design, and the use of screen printing tools as well as the chemicals used in the screen printing process.

### METALWORKING TECHNOLOGY 1 (521) (MACHINE SHOP TECHNOLOGY 1)

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: \$3 safety glasses

Prerequisites: None

**Course Description:** This course provides students with experiences in metalworking, materials, tools and processes. Processes include bench metals (layout, sawing and filing), machine metals (lathe operations), sheet metal (cutting, bending and fastening), and foundry (casting and pattern making). Some minor forging, welding and heat treating are integrated into the course activities. By safely performing required tasks, students will gain a basic understanding of metal manufacturing and produce several nice projects to take home.

### METALWORKING TECHNOLOGY 2 (522) (MACHINE SHOP TECHNOLOGY 2)

Grades 11 12 Credits 0.5 Semester 1 or 2 Fees: \$3 safety glasses

Prerequisites: Credit in Metals 1

**Course Description:** This is a hands-on course designed to build on the skills acquired in Metals 1. Students begin with metal identification, heat treating and hardness testing. Shop work will include the setup and operation of lathes and milling machines. The skills acquired in this one hour class will compliment other vocational classes such as Auto Mechanics, Welding, Drafting and Collision Repair.

## TECHNOLOGY EDUCATION

### **WELDING 1 (532) (WELDING TECHNOLOGY 1)**

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: None

Prerequisites: None

**Course Description:** In this course students will learn the fundamentals of oxy-acetylene and electric arc welding with additional experience in brazing and soldering. Study also includes the reading of welding symbols in blueprints, safety and metallurgy. Students learn to make various types of weld joints in various positions with oxy-acetylene and arc welding. Emphasis is placed on manufacturing techniques and production setups. Special attention is given to welding safety, welding rod classification and selection, and welding machine settings.

### **WELDING 2 (533) (WELDING TECHNOLOGY 2)**

Grades 11 12 Credits 1.0 Full Year Course Fees: None

Full Year Course 1.0 Credit

Fees: \$10 each semester

Prerequisites: Credit in Welding 1

**Course Description:** This is a continuation of Welding 1 with additional experience in MIG and TIG welding.

### **WOODWORKING 1 (535) (PRODUCTION TECHNOLOGY)**

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: \$3 safety glasses  
Material costs for projects

Prerequisites: None

**Course Description:** This is an introduction to machine woodworking. Students practice the safe and proper methods of operating woodworking machinery through the construction of a laminated tray. Following the completion of the required first quarter project, each student selects a project from among thirty-five different pre-planned projects.

### **ADVANCED WOODWORKING PRODUCTION (534) (CABINETMAKING & MILLWORK 1)**

Grades 11 12 Credits 1.0 Full Year Course Fees: \$3 safety glasses  
Material costs for projects

Prerequisites: Credit in Woodworking 1

**Course Description:** In this course students refine their skills through individual projects and group work. Group work includes the construction of cabinetry, furniture and other kinds of mass-produced wooden products. Most class time is devoted to students' work on projects of their own choosing.

### **BASIC AUTO/HOME REPAIR (508) (TRANSPORTATION TECHNOLOGY)**

Grades 10 11 12 Credits 0.5 Semester 1 or 2 Fees: \$3 safety glasses

Prerequisites: Not open to students currently or previously enrolled in ACC Auto Mechanics unless approved by administrator.

**Course Description:** In this course students will learn the skills needed to handle day-to-day maintenance and repair of automobiles and homes. Automobile maintenance and repair tasks that can be done in your driveway or garage with standard tools will be emphasized. Due to a reduction in lab facility space, the Basic Auto laboratory activities will be demonstration-based. Home maintenance and repair will involve redecorating, plumbing and electrical systems.

## Four-Year Planner

Grade 9 Freshman	Grade 10 Sophomore
English 1	English 2
Math	Math
Science	Science
PE (2 quarters)	World History
Health (1 semester)	PE (3 quarters)
2 or 3 Electives	*Driver Education (1 quarter)
	1 or 2 Electives
Grade 11 Junior	Grade 12 Senior
English 3	English 4
Math	U.S. Government/Civics (1 semester)
U.S. History	PE
PE	Consumer Education (1 semester)
3 or 4 Electives	3 or 4 Electives

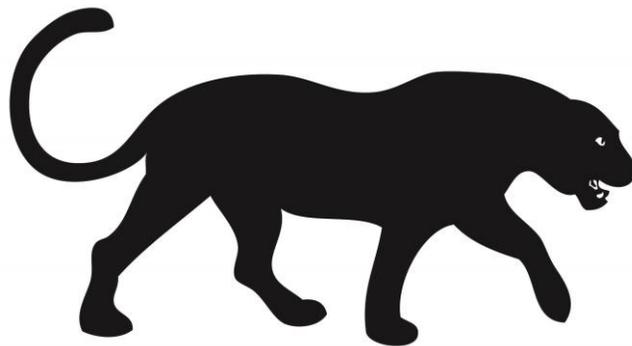
\*The quarter that a student takes the Driver Education course is based on his/her birth date.

### Student Grade Level Classifications

Freshman.....First Year  
 Sophomore..... Second Year  
 Junior ..... Third Year  
 Senior..... Fourth Year







## **2017-2018 Course Planning Guide**