

**STAUNTON HIGH SCHOOL**

**COURSE HANDBOOK**



**2023 – 2024**

## Letter from the Principal

TO: Staunton High School Students  
FROM: Ms. Carrie Griffith, Principal  
RE: Course Selection

Choosing a career is not a simple decision. In fact, it's an ongoing process that changes as you learn more about yourself, the world of work, and the new skills you gain. While you can expect your plans to evolve throughout time, there are steps you can take right now to get you started on the right foot: **assess, explore, research, and plan.**

**Assess:** Thinking about the future can be intimidating. A great way to start narrowing down your focus is to think about your personal interests. What are your curiosities? Are you passionate about social justice? Are you curious about how the body works? Are you interested in how video games are made? Identifying these interests will help you find a college or career that will continue to motivate and inspire you. Next, think about how you want your day-to-day to look. Do you want to work in an office, or would you prefer to work remotely or travel? A fulfilling career is not only about the field in which you work, but also the daily schedule that comes with it.

There are lots of surveys and online tests you can take to help you learn about college, career and military options. No one test can tell you what to do with your life, but they can help you think about fields you previously may not have considered. You're more likely to find the right career for you when you have a clear idea of all your options.

**Explore:** Now it's time to explore the areas that reflect your interests and skills. If you are interested in the world of medicine, for instance, you could take a veterinary science class. Likewise, a physics class would be a nice introduction to a future in engineering. Beyond academics, you could learn so much about a topic by getting involved with volunteer organizations that do work related to your field of interest.

**Research:** Once you have settled on one or more fields of interest, conduct some research. This process will give you an idea of what you need to do to get to where you want to be. Talk to an adult working in your potential field and ask them about what they do and don't like about their career. How do you feel about both the perks and drawbacks they describe? Then pick their brain about the process it took to get them where they are. They can help you figure out the education and training you will need to get a similar job.

Not sure who to talk to? If you're interested in a career with a specific job title, look it up on LinkedIn. You can find professionals working in your field and get an idea of how their education and experience brought them to their current position. Keep in mind that most professions lack an exact formula to get a job, so never feel the need to follow a professional's life story. Instead, figure out what's similar about those who succeeded.

**Plan:** Once you've settled on a few different career options, it's wise to think about the general plan for how to head in the right direction. Establish a tentative timeline to give you an idea of how long it will take to achieve your goals. Also consider the time and financial commitments you will need to make. You can even get that timeline started today by enrolling in relevant courses during your journey at SHS.

Involve your parents and/or adults in your life when choosing courses. Meet with the counselor and/or your favorite teacher to help make decisions. The Course Handbook clarifies graduation requirements and provides information helpful in planning for your entrance to college, military or the workforce. You can do this.

## **College & Career Planning**

The purpose of this course catalog is to enable students and parents to make wise program choices. Students are encouraged to consult with their counselor and/or teachers at registration time if the printed course descriptions do not contain enough information.

Students should carefully select their courses, bearing in mind graduation requirements and personal educational goals. Courses listed in this catalog are offered based on student interest. If a course does not meet minimum enrollment requirements, the course will not be offered, and students will meet with their counselor to select another course.

# College & Career Planning

## **CREDITS REQUIRED FOR GRADUATION FROM SHS**

A minimum of 23 credits is required for graduation; 16 credits must be earned in core academic subjects. Each semester course passed is worth .50 credits except for Color Guard which is worth .25 credits. Driver education is worth .25 credits. All students must be enrolled for a minimum of 6.0 credits (3.0 credits per semester). Students must be enrolled for a minimum of one complete semester and have successfully met all graduation requirements before receiving a diploma.

All students must be enrolled in the following required courses:

- Ninth Grade – English, mathematics, physical education\*, health, science
- Tenth Grade – English, mathematics, physical education\*, science
- Eleventh Grade – English (including one research paper course), mathematics, United States History, American Government\*\*\*, physical education\*
- Twelfth Grade – English, consumer education\*\*, physical education\*

These additional courses are also required and may be taken when convenient:

- Two credits in social studies
- One year of fine arts, foreign language, or career and technical education

\*Eleventh and twelfth grade students, on an individual basis, may be excused from physical education for one or more of the following reasons (see page 3).

\*\* Completion of Consumer Economics will meet the Consumer Education requirement. Consumer Economics can be taken Sophomore, Junior or Senior Year.

\*\*\* American Government may be taken during junior or senior year. Political Science will fulfill the government requirement and may be taken during the junior or senior year.

## **ADDITIONAL GRADUATION REQUIREMENTS**

\*All students are required to take the SAT as a condition of receiving a regular high school diploma, unless a student is exempted. The Illinois State Board of Education grants exemption per individual case.

\*\*Effective June 1, 2020, a new Illinois public high school graduation requirement went into effect under Public Act 101-0180. Beginning with the 2020-21 school year a student must meet one of the following requirements to receive a public high school diploma, in addition to all other graduation requirements:

- File a Free Application for Federal Student Aid (FAFSA®); or
- File an Alternative Application for Illinois Financial Aid; or
- File a waiver to opt out of federal or state financial aid with Staunton School District

School districts must require that each high school student comply with Public Act 101-0180 and provide each high school student—and if applicable their parent or guardian—any support necessary to comply.

## College & Career Planning

### GRADUATION REQUIREMENTS

Class of 2016 and each year thereafter

- Four years of language arts
- Two years of writing intensive courses, one of which must be English and the other of which may be English or any other subject. When applicable, writing-intensive courses may be counted towards the fulfillment of other graduation requirements.
- Three years of mathematics, one of which must be Algebra I and one of which must include geometry content.
- Two years of science
- Two years of social studies, of which at least one year must be history of the US or a combination of history of the US and American government and one semester must be civics;
- One year of fine arts, foreign language, or career and technical education.
- One semester of Health Education
- One semester of Consumer Education

**NOTE: ALL students must be enrolled in Physical Education, unless they meet the below listed exemption criteria.**

\*Physical education-any junior or senior who meets the state requirements may request to be excused from physical education by having a waiver signed by his/her parent or guardian. This waiver may be obtained from the high school office.

#### PHYSICAL EDUCATION WAIVER REQUIREMENTS

A student in grades 9-12, unless otherwise stated, may submit a written request to the building principal to be excused from physical education courses for the following reasons:

1. Enrollment in a marching band program for credit;
2. Ongoing participation in an interscholastic athletic program (student must be in the 11<sup>th</sup> or 12<sup>th</sup> grade);
3. Enrollment in academic classes that are required for admission to an institution of higher learning (student must be in the 11<sup>th</sup> or 12<sup>th</sup> grade);
4. Enrollment in academic classes that are required for graduation from high school, provided that failure to take such classes will result in the pupil being unable to graduate (student must be in the 11<sup>th</sup> or 12<sup>th</sup> grade); or
5. If the student must use the time set aside for physical education to receive special education support and services, subject to the student's Individualized Education Plan (IEP).

## College Credit Opportunities

### **DUAL CREDIT**

In coordination with Lewis & Clark Community College (LCCC) and Arizona State University (ASU), Staunton High School offers dual credit courses. A course identified as dual credit has undergone a rigorous matching of curricula from both District 6 and the college/university and has met the necessary criteria to provide the student with both high school graduation credit and college credit. Dual credit courses are taught by high school teachers during the normal high school day.

Dual Credit Fee Schedule:

LCCC: \$10 per credit hour fee that will be charged to students enrolling in dual credit courses.

ASU: \$25 course fee; then choice of paying \$400 to ASU for credit 1 year after completing the course.

Dual credit is not automatically given to students who are enrolled in a dual credit high school course. For some courses, an appropriate placement test must be passed in order to receive credit.

- For courses through LCCC, if a student decides they no longer want the dual credit option after officially enrolling in that option, the student must drop the dual credit portion by the published date required by LCCC. The student still receives high school credit. When dual credit is earned, the grade obtained in that course will be on the college/university transcript.
- For courses through ASU, the cost to enroll in the course is \$25; Students will have one year after completion of the course to decide if they want to transcript the grade. If they decide to transcript the grade, they will then pay \$400 for the credits.

Once enrolled in a dual credit class, it cannot be dropped from their SHS schedule after the five day grace period. Students should be aware that this is the risk they take, before registering for a dual credit class.

Some of the advantages to students participating in dual credit courses include acquainting students with college level material and encouraging students to attend college after graduation. Students begin generating a college transcript while still in high school. Additionally, dual credit can save students and parents both time and money.

*Dual credit courses through LCCC are either transfer credit or career credit. Dual credit courses through ASU are transfer credit:*

- Transfer Credit—Transfer credit courses are equivalent to lower-division (e.g., freshman & sophomore) baccalaureate study and are generally articulated for transfer to most colleges and universities.
- Career Credit—Career credit courses are technical and applied courses and are designed to meet the requirements for an occupational degree or certificate program. Although these courses are not generally designed for transfer, some may be articulated with colleges and universities and used to meet lower-division baccalaureate requirements.

*The courses outlined on the following page may be Dual Credit Courses with LCCC and ASU for the 2023-2024 school year at Staunton High School.*

***It is the student's responsibility to request LCCC and ASU transcripts to be sent to any prospective college/university. Contact the college for more information or to request a transcript.***

*\*Any student who has a D or an F (for any reason) at the LCCC drop date will be dropped from the LCCC course. The student will remain in the course and earn high school credit. Additionally, if an instructor feels that a student has been absent from class an excessive amount and valuable instructional time and content was missed, they may confer with school administration, who will decide whether the student is deserving of college credit.*

*\*If an equivalent course exists that is not dual credit & the student has a D or an F in the first quarter of a class, the student can get approval from administration to drop the dual credit version of the class & add the non- dual credit course (ex. drop US Hist 231 for US Hist). The prior grade will transfer to the new course.*

**LCCC Dual Credit Coursework Placement Requirements:**

| LCCC TRANSFER CREDIT COURSES  |                        |                         |   |     |                   |                   |                |             |             |          |
|---|------------------------|-------------------------|---|-----|-------------------|-------------------|----------------|-------------|-------------|----------|
| L&C Course Number   | L&C Course Name        | Transfer /Career Credit | Accuplacer Reading/ Writing                         |     | ACT English Score | ACT Reading Score | ACT Math Score | SAT Reading | SAT Writing | SAT Math |
| BIOL 132  | Human Biology          | Transfer                | HS Biology or "C" or better in BIOL 130 *see below* |     |                   |                   |                |             |             |          |
| BIOL 141/121*   | General Chemistry I    | Transfer                | 250   | and |                   |                   | 22             |             |             | 28       |
| CDEV 130*   | Career Development     | Transfer                | No Test Required                                    |     |                   |                   |                |             |             |          |
| ENGL 131  | *First-Year English I  | Transfer                | 250 (both)  | or  | 18                | 18                |                | 25          | 25          |          |
| ENGL 132  | *First-Year English II | Transfer                | "C" or better in ENGL 131                           |     |                   |                   |                |             |             |          |
| HIST 231  | American Republic:     | Transfer                | 250   | or  |                   | 18                |                | 25          |             |          |
| HIST 232  | American Nation:       | Transfer                | 250   | or  |                   | 18                |                | 25          |             |          |
| POLS 131  | American Government    | Transfer                | 250   | or  |                   | 18                |                | 25          |             |          |
| All grade levels must meet requirements listed above for placement into transfer level courses.   |                        |                         |   |     |                   |                   |                |             |             |          |
| *Course Catalog prerequisites are in addition to placement guidelines (Accuplacer Score or ACT/SAT score or Senior GPA)*                        |                        |                         |   |     |                   |                   |                |             |             |          |
| *CHEM 141/121 has both reading and math requirement   |                        |                         |   |     |                   |                   |                |             |             |          |
| Reading: Seniors 2.7 GPA -will satisfy/Juniors: Accuplacer Reading Score 250 or better  |                        |                         |   |     |                   |                   |                |             |             |          |
| Math: ACT Math Score 22-24 or SAT Math Score 28-30.5 or GPA 2.7 with an "A" in Algebra 2 OR math placement test                                 |                        |                         |   |     |                   |                   |                |             |             |          |
| "C" or better in high school chemistry  |                        |                         |   |     |                   |                   |                |             |             |          |
| * ENGL 131/132 are limited to Seniors and/or Juniors in a defined High School Honors track only AND requires both Reading and Writing Placement |                        |                         |   |     |                   |                   |                |             |             |          |
| *CDEV 130 is limited to Juniors & Seniors only  |                        |                         |   |     |                   |                   |                |             |             |          |
| Seniors are eligible to be placed with a GPA of 2.7 or higher on a 4.0 scale  |                        |                         |   |     |                   |                   |                |             |             |          |

| CAREER CREDIT COURSES  |                              |                         |                  |  |                   |                   |             |             |                             |  |
|--|------------------------------|-------------------------|------------------|--|-------------------|-------------------|-------------|-------------|-----------------------------|--|
| L&C Course Number  | L&C Course Name              | Transfer /Career Credit | GPA              |  | ACT Reading Score | ACT English Score | SAT Reading | SAT Writing | Accuplacer Reading/ Writing |  |
| WELD 190   | Oxyfuel Welding &Cutting     | Career                  | No Test Required |  |                   |                   |             |             |                             |  |
| WELD 194   | Shielded Metal Arc Welding I | Career                  | No Test Required |  |                   |                   |             |             |                             |  |
| Incoming Freshmen must score a 227 or higher on the Accuplacer reading test to be eligible to enroll in career classes |                              |                         |                  |  |                   |                   |             |             |                             |  |
| *Course Catalog prerequisites are in addition to placement guidelines (Accuplacer Score or ACT/SAT score or GPA)*      |                              |                         |                  |  |                   |                   |             |             |                             |  |
| GPA placement for 1.2 courses and MATH placement is based on a 4.0 scale   |                              |                         |                  |  |                   |                   |             |             |                             |  |

## College Credit Opportunities 2023-2024

Review course descriptions for more details and specific course requirements.

| <b>LCCC Course Number &amp; Title</b>              | <b>Staunton High School Course</b> | <b>Credit Hrs</b> | <b>Transfer or Career Credit</b> |
|--|------------------------------------|-------------------|----------------------------------|
| BIO 132 - Human Biology                            | Anatomy & Physiology               | 4                 | Transfer                         |
| CHEM 141/121 - General Chemistry I                 | Advanced Chemistry                 | 6                 | Transfer                         |
| BUSN 231 - Planning for Small Business             | CEO                                | 3                 | Transfer                         |
| ENGL 131 - First Year English I                    | English/Composition                | 3                 | Transfer                         |
| ENGL 132 - First Year English II                   | English/Composition                | 3                 | Transfer                         |
| HIST 231 - American Republic:Begin-1877            | US History 231                     | 3                 | Transfer                         |
| HIST 232 - American Nation:1877-Present            | US History 232                     | 3                 | Transfer                         |
| POLS 131 - American Government                     | Political Science                  | 3                 | Transfer                         |
| CDEV 130 - Career Development                      | Career Exploration                 | 3                 | Transfer                         |
| MGMT 239 - Management for Small Business           | CEO                                | 3                 | Career                           |
| WELD 190 - Welding and Cutting                     | Welding Technology I               | 3                 | Career                           |
| WELD 194 - Shielded Metal Arc Welding I            | Welding Technology II              | 3                 | Career                           |
| <b>Arizona State University Number &amp; Title</b> | <b>Staunton High School Course</b> | <b>Credit Hrs</b> | <b>Transfer or Career Credit</b> |
| MAT 117-College Algebra                            | Pre-Calculus                       | 3                 | Transfer                         |
| MAT 170- Precalculus                               | Pre-Calculus                       | 3                 | Transfer                         |
| MAT 265 – Calculus for Engineers 1                 | Calculus                           | 3                 | Transfer                         |



## **Certificates of Completion**

Through District 6's partnership with Lewis & Clark Community College, SHS students have the opportunity to earn a Certificate of Completion at no cost to the students, parents, or District 6. By following a prescribed sequence of courses in high school, a Certificate of Completion provides a student with the minimum skills necessary to acquire an entry-level job in a particular area or better equip them with skills for college. When paired with accepted dual credit, students do not have to repeat these courses in college.

In order to receive applicable dual credit, students must pass a placement test offered by Lewis & Clark Community College. For most dual credit courses, this placement test is a computerized reading test that students take in their high school class at no cost. Once students take and successfully complete the reading test for one course, they will not be required to take the test again, unless a later course requires a higher passing course.

### **Welding Principles: Certificate of Completion**

| <b>Lewis and Clark Course Number &amp; Title</b> | <b>Staunton High School Course Name</b> | <b>Credit Hours</b> | <b>Transfer or Career Credit</b> | <b>Required College Placement Score</b> |
|--|---|---------------------|----------------------------------|---|
| WELD 131   | WELD 131                                | 2                   | General/Vocational               | 66                                      |
| WELD 194   | WELD 194                                | 3                   | General/Vocational               | 66                                      |
| <b>Total</b>                                     |   | <b>5</b>            |                                  |   |

**\*Students must be 16 per LCCC**

## **COLLEGE AND CAREER PLANNING**

College and career planning begins early and involves matching interests, skills, and abilities with types of jobs available. Students wanting assistance with the college and career planning process are encouraged to visit with their counselor.

SHS offers a variety of courses to provide students with experiences that prepare them for post-secondary education, whether it is a four-year university, two-year college, technical training, or other opportunities. Students desiring entry-level jobs upon graduation or interested in a specific field of study in college may be advised to follow a specific sequence of courses in a particular field. Students should work with their parents and counselor in establishing the appropriate four-year course plan.

Each university, college, and technical school has established requirements for admission that are unique to their institution. Students should work closely with their counselor and the specific post-secondary institution to ensure that each school's expectations are understood.

### **GUIDELINES FOR RELEASE FROM HIGH SCHOOL CLASSES TO MEET WITH VISITING COLLEGE REPRESENTATIVES:**

- Students must sign up at least two days in advance in the guidance office.
- A college representative visit form will be given to the student to have signed by the teacher whose class will be interrupted during the representative's visit. Without this signed form, students will not be allowed to attend.
- Tests and other important class assignments should be the student's first priority. Students should be reasonable when deciding if he/she can afford to miss a class. If the student can't attend he/she needs to see the guidance counselor before the visit to arrange for materials to be collected on his/her behalf.
- Students should remind the teacher the day before that there is a college rep coming and collect any work that will be missed.
- Students should report to class for attendance-taking before seeing the representative.

### **GUIDELINES FOR COLLEGE VISITATIONS**

The following qualify for College Day Visitations:

- Physicals/orientation for military entrants
- ASVAB testing for possible military entrance
- Open campus visitation dates publicized by the colleges/schools
- Individual appointments made in advance with schools
- Appointments for scholarship applications/interviews
- Appointments for placement testing and/or registration
- Appointments for internship programs, etc.
- Other appointments as determined by the administration
- Only seniors will be approved

Juniors are encouraged to plan and visit colleges and/or technical schools during the summer before their senior year. Seniors may take two college days if needed. Most schools offer weekend visitations, etc. Occasionally, you may need a week-day appointment for post-secondary plans.

Students will be granted a half-day to visit the local campuses (Lewis & Clark Community College, Blackburn College and Southern Illinois University) for a school preview visit. Full day visits will be granted to local campuses only if needed.

All colleges require that students schedule appointments in advance.

The required college visitation form must be turned into the guidance office a minimum of **two days** in advance of the visit. In certain urgent cases, (i.e., a college request for an interview or advisement date), less than two days notice can be given, parents must call the counselor or principal and request special permission for a senior to be gone.

When the counselor receives and approves the college visitation form, students must also inform their instructors of the date they will be gone and make arrangements for make-up work. Parents need to call the high school office on the day of the scheduled appointment to confirm that the senior is gone that day for a college visit.

After the visit, students must give the counselor proof of attendance at the appointment/event. A signed statement from the college/school/recruiter must be turned in the day after the scheduled appointment. Otherwise, the college day is not given and the student will show an absence for the day.

## **COLLEGE, SCHOLARSHIP, AND FINANCIAL AID INFORMATION**

Senior year begins the process of transition to the student's post high school plans. The school website offers much information to help parents and students with this process. Please check the guidance news section of the Staunton High School website often for updates on important upcoming events, links to valuable websites, college search databases, and scholarship and financial aid information. In addition, when new information, events, or scholarship applications are available an announcement will be made.

## **ILLINOIS BOARD OF HIGHER EDUCATION REQUIREMENTS**

The Illinois Board of Higher Education (IBHE) has established the following admission requirements, which apply to most state universities in Illinois. These course requirements are used in combination with college test scores and class rank to determine admissions eligibility. Please be aware that individual schools may have higher entrance requirements. Students should check with their counselor about specific school requirements.

|  |   |
|--|---|
| English  | Four (4) years  |
| Mathematics  | Three (3) years (Introductory through advanced algebra, geometry, trigonometry, computer programming) |
| Social Studies                                       | Three (3) years (Emphasizing history and government)  |
| Science  | Three (3) years (Laboratory sciences)   |
| Foreign Language, Music, Art or Vocational Education | Two (2) years from any of these four areas  |

## **College & Career Planning**

**SUMMER SCHOOL AND INDEPENDENT STUDY** A student will receive high school credit for successfully completing: 1) any course given by an institution accredited by the North Central Association of Colleges and Secondary Schools, and (2) independent study in a curriculum area not offered by the District, provided the student obtains the consent of a supervising teacher as well as Building Principal.

**CORRESPONDENCE COURSES** The District does not accept credit for correspondence courses toward graduation.

### **DISTANCE LEARNING COURSES, INCLUDING VIRTUAL OR ONLINE COURSES**

A student enrolled in a distance learning course, including a virtual or online course, may receive high school credit for work completed, provided:

1. The course offered by an institution approved by the Superintendent or designee;
2. The course is not offered at the student's high school
3. The student assumes responsibility for all fees (including tuition and textbooks);
4. The Building Principal approves the course in advance.

Students may be limited as to the number of distance learning courses that apply toward high school credit. Grades earned in approved distance learning courses count toward a student's grade point average, class rank, and eligibility for athletic and extracurricular activities. The District may pay the fee for expelled students who are permitted to take virtual or online courses in alternative settings.

**COLLEGE COURSES** Seniors may take one academic course per semester from an outside accredited institution to earn credit towards graduation.

A senior student who successfully completes community college courses may receive high school credit, provided:

1. The student is a senior in good academic standing;
2. The course is approved in advance by the student's guidance counselor and the High School Principal; and
3. The student assumes responsibility for all fees.

**SCHEDULE CHANGES:** Please give serious attention to the course selection process. Staunton High School builds its master schedule based on student class requests; the master schedule is then used to determine staffing needs for the entire school year.

Students may see the guidance counselor regarding schedule changes during the first five (5) days of each semester. Changes in courses may be honored if the request is related to: 1) Graduation requirements; 2) First semester failures; 3) Failed prerequisite courses; 4) Computer errors; 5) and/or college entrance requirements

. Schedule changes will not be made for the following reasons: 1) A student does not like people in the class; 2) A student simply does not like his/her schedule; 3) A student does not like the teacher.

Dropping a course after the first five (5) days of a semester and before the end of the first five (5) weeks will result in a grade of “WF”, unless the student drops a class for the following reasons:

- 1) The student is receiving a D or an F in the class ... especially if progression into the second semester of work requires success in the first semester for understanding.
- 2) Another course is needed to meet graduation requirements.

The drop will only be granted if the student and parent have met with the teacher, the teacher agrees to the reason for the drop, the administration has given approval, and the student, parent, and teacher of the replaced class agrees that the student can and will make-up all work completed prior to the addition of the class.

Students who withdraw from a class for any reason after the first five weeks of each semester will receive a grade of “WF” (Withdrawal Failure) on his/her transcript for the course. A “WF” counts as an “F” for GPA purposes.

**EARLY GRADUATION** Starting with the graduating class of 2008-2009 early graduation **will not** be allowed.

**GRADES** Report cards are issued quarterly. Credits for passing grades are issued at the end of each semester. Quarter grades are to be regarded as grades in progress. They are not recorded on a student’s permanent record. Final average and class rank are based on all semester grades earned from the ninth grade through the second semester of the twelfth grade. All courses are included in determining the class average and rank. For the class of 2015 grades received in all classes are scaled and weighted as follows.

**Staunton School District Grading Scale**

97-100=A+, 93-96=A, 90-92=A-, 87-89=B+, 83-86=B, 80-82=B-, 77-79=C+, 73-76=C, 70-72=C-, 67-69=D+, 63-66=D, 60-62=D-, 50-59=F

**Grades in all classes are weighted as follows:**

|    |      |
|----|------|
| A+ | 4.00 |
| A  | 4.00 |
| A- | 3.67 |
| B+ | 3.33 |
| B  | 3.00 |
| B- | 2.67 |
| C+ | 2.33 |
| C  | 2.00 |
| C- | 1.67 |
| D+ | 1.33 |
| D  | 1.00 |
| D- | 0.67 |
| F  | 0.00 |

Grade point average (GPA) is calculated by dividing total GPA points by Cumulative Earned Credits. A student’s GPA will be calculated to two decimal places rounded by the third decimal place.

**TRANSFER CREDITS** Credits transferred will be transposed to equal value of credits & weight granted by like classes at Staunton High School.

## COURSE DESCRIPTION INFORMATION

**DEPARTMENT COURSE LISTINGS** The courses offered at SHS are listed by department.

**GRADE LEVEL** Courses are designed for specific grade levels. These are listed under the title of the course.

**PREREQUISITES** Any specific prerequisites for the course are listed behind this label. Please follow these closely to ensure student success within this course.

**COURSE CREDIT** Staunton High School offers both full-year and semester courses. The credit available for each course is indicated in the title of each course. Students who pass a full-year course receive one (1.0) credit towards graduation. Students who pass a semester course (indicated by an asterisk\*) receive one-half (0.5) credit towards graduation.

**COURSE DESCRIPTION** The course description indicates the major concepts within the course. Any opportunities for dual credit through Lewis and Clark Community College will be indicated within this description.

College & Career Readiness Electives – students may be placed by administration into an elective to prepare students to be college & career ready. This will be done based on success in the classroom & achievement scores received for tests taken that measure college & career readiness, such as ACT, SAT, and PARCC.

## College & Career Planning

### NATIONAL COLLEGIATE ATHLETIC ASSOCIATION DIVISION I AND II COURSE REQUIREMENTS

#### Play Division I Sports

If you want to compete in NCAA sports at a Division I school, you need to register with the NCAA Eligibility Center to make sure you stay on track to meet initial-eligibility standards.

If you have questions about your eligibility or the registration process, call us toll free at 1-877-262-1492. International students should call 317-917-6222.

#### [Register with the NCAA Eligibility Center](#)

#### ***Get Ready. Get Set. Go!***

##### Grade 9

- Ask your counselor for a list of your high school's NCAA core courses to make sure you take the right classes.

##### Grade 10

- Register with the NCAA Eligibility Center at [eligibilitycenter.org](http://eligibilitycenter.org).

##### Grade 11

- Check with your counselor to make sure you will graduate on time with the required number of NCAA core courses.

- Take the ACT or SAT and submit your scores to the NCAA using code 9999.
- At the end of the year, ask your counselor to upload your official transcript to the NCAA Eligibility Center.

### Grade 12

- Finish your last NCAA core courses.
- Take the ACT or SAT again, if necessary, and submit your scores to the NCAA using code 9999.
- Complete all academic and amateurism questions in your NCAA Eligibility Center account at [eligibilitycenter.org](http://eligibilitycenter.org).
- After you graduate, ask your counselor to submit your final official transcript with proof of graduation to the NCAA Eligibility Center.

To be eligible to compete in NCAA sports during your first year at a Division I school, you must graduate high school and meet ALL the following requirements:

Complete 16 core courses:

- Four years of English
- Three years of math (Algebra 1 or higher)
- Two years of natural/physical science (including one year of lab science if your high school offers it)
- One additional year of English, math or natural/physical science
- Two years of social science
- Four additional years of English, math, natural/physical science, social science, foreign language, comparative religion or philosophy

Complete 10 core courses, including seven in English, math or natural/physical science, before your seventh semester. Once you begin your seventh semester, you may not repeat or replace any of those 10 courses to improve your core-course GPA.

Earn at least a 2.3 GPA in your core courses.

Earn an SAT combined score or ACT sum score matching your core-course GPA on the Division I sliding scale, which balances your test score and core-course GPA. If you have a low test score, you need a higher core-course GPA to be eligible. If you have a low core-course GPA, you need a higher test score to be eligible.

Learn more about playing Division I sports at this link:

<http://www.ncaa.org/student-athletes/play-division-i-sports>

Review this link that contains information for the college bound student athlete:

[http://fs.ncaa.org/Docs/eligibility\\_center/Student\\_Resources/CBSA.pdf](http://fs.ncaa.org/Docs/eligibility_center/Student_Resources/CBSA.pdf)

# DIVISION I ACADEMIC REQUIREMENTS

College-bound student-athletes enrolling at an NCAA Division I school need to meet the following academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.

## Core-Course Requirement

Complete 16 core courses in the following areas:



## FULL QUALIFIER

- Complete 16 core courses.
  - Ten of the 16 core courses must be completed before the seventh semester (senior year) of high school.
  - Seven of the 10 core courses must be in English, math or natural/physical science.
- Earn a core-course GPA of at least 2.300.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.

### Full Qualifier

College-bound student-athletes may practice, compete and receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division I school.

### Academic Redshirt

College-bound student-athletes may receive an athletics scholarship during their first year of full-time enrollment and may practice during their first regular academic term, but may NOT compete during their first year of enrollment.

### Nonqualifier

College-bound student-athletes will not be able to practice, compete or receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division I school.

### International Students

Please review the [international initial-eligibility flyer](#) for information and academic requirements specific to international student-athletes.

## ACADEMIC REDSHIRT

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division I sliding scale (see back page).
- Graduate high school.





## DIVISION II ACADEMIC REQUIREMENTS

College-bound student-athletes enrolling at an NCAA Division II school need to meet the following academic requirements to practice, compete and receive an athletics scholarship in their first year of full-time enrollment.

### Core-Course Requirement

Complete 16 core courses in the following areas:

|                |                                      |   |  |                       |   |
|----------------|--------------------------------------|---|--|-----------------------|---|
| <b>ENGLISH</b> | <b>MATH</b><br>(Algebra I or higher) | <b>NATURAL/<br/>PHYSICAL<br/>SCIENCE</b><br>(Including one year of lab, if offered) | <b>ADDITIONAL</b><br>(English, math or natural/physical science) | <b>SOCIAL SCIENCE</b> | <b>ADDITIONAL COURSES</b><br>(Any area listed to the left, foreign language or comparative religion/philosophy) |
| <b>3 years</b> | <b>2 years</b>                       | <b>2 years</b>  | <b>3 year</b>  | <b>2 years</b>        | <b>4 years</b>  |

### FULL QUALIFIER

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.200.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division II full qualifier sliding scale (see back page).
- Graduate high school.

### PARTIAL QUALIFIER

- Complete 16 core courses.
- Earn a core-course GPA of at least 2.000.
- Earn an SAT combined score or ACT sum score matching the core-course GPA on the Division II partial qualifier sliding scale (see back page).
- Graduate high school.

### Full Qualifier

College-bound student-athletes may practice, compete and receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division II school.

### Partial Qualifier

College-bound student-athletes may receive an athletics scholarship during their first year of enrollment and may practice during their first year of full-time enrollment at a Division II school, but may NOT compete.

### Nonqualifier

College-bound student-athletes will not be able to practice, compete or receive an athletics scholarship during their first year of full-time enrollment at an NCAA Division II school.

### International Students

Please review the [international initial-eligibility flyer](#) for information and academic requirements specific to international student-athletes.



# College & Career Planning

| YEAR        | ACADEMICS & EXTRACURRICULARS   | TESTING  | EXPLORE   |
|-------------|--|--|---|
| <b>9th</b>  | <ul style="list-style-type: none"> <li>Take the most challenging level of courses you can; post-secondary institutions look at the level of the courses you take as well as the grades you earn</li> <li>Develop good study habits</li> <li>The first grade point average (GPA) you establish is very important</li> <li>Get involved in extracurricular activities</li> <li>Volunteer within the community</li> <li>Keep track of your activities</li> </ul>  | <ul style="list-style-type: none"> <li>Commit to doing well in coursework as it prepares you for the tests in other years.</li> <li>Take the PSAT test in the spring – it provides information as it relates to the SAT College Readiness Standards.</li> </ul>  | <ul style="list-style-type: none"> <li>Think about what you want to pursue as a career once you complete your education</li> <li>Think about where you want to go to post-secondary school</li> <li>Investigate the costs associated with post-secondary schooling</li> <li>Utilize your career cruising account to explore career interests and begin building your resume</li> </ul>  |
| <b>10th</b> | <ul style="list-style-type: none"> <li>Continue to take the most challenging courses you can</li> <li>Continue to get involved in extracurricular activities and volunteer opportunities</li> <li>Update the record of what you do and offices you hold</li> <li>Select courses for your junior year which ensure meeting graduation and post-secondary entrance requirements</li> </ul>   | <ul style="list-style-type: none"> <li>Commit to doing well in coursework as it prepares you for the tests in other years</li> <li>Take PSAT test in spring – it provides an interest inventory and previews the SAT</li> </ul>  | <ul style="list-style-type: none"> <li>Think about your talents, inclinations, and personality</li> <li>Research requirements (course pre-requisites, entry requirements, personality traits, etc.) for careers you are considering</li> <li>Think about and discuss with others matching yourself with careers that interest you</li> <li>Encourage your parents to attend the financial aid seminar</li> <li>Utilize your career cruising account to explore career interests and begin building your resume</li> </ul>   |
| <b>11th</b> | <ul style="list-style-type: none"> <li>Continue to take the most challenging courses you can</li> <li>Continue to get involved in extracurricular activities and volunteer opportunities</li> <li>Update the record of what you do and offices you hold</li> <li>Choose electives which support your possible career(s) and meet entry requirements</li> <li>Double-check graduation and college entrance requirements to be sure you are on track with both</li> <li>Become familiar with the questions asked on applications that require essays</li> <li>Begin the eligibility process if you plan to play sports at a NCAA or NAIA college.</li> </ul> | <ul style="list-style-type: none"> <li>Take PSAT/NMSQT in October (optional) and/or the spring</li> <li>ACT (optional)</li> <li>√ Given in October, December, February, April, &amp; June</li> <li>√ These are national test dates for NCAA scholarships</li> <li>SAT – Illinois State Mandated test in the spring</li> <li>SAT I offered in April, May, &amp; June (optional)</li> <li>SAT II offered in May &amp; June (optional)</li> </ul> | <ul style="list-style-type: none"> <li>Research colleges and other post-secondary educational institutions that will meet your career objectives and financial requirements... resources include: parents, counselors, alumni, friends, web sites, college fairs, brochures, college representatives</li> <li>Plan to visit colleges during the summer, or first semester of senior year</li> <li>Try to narrow your college selections to 5-8 from which to choose and apply</li> <li>Encourage your parents to attend the financial aid seminar</li> <li>Utilize your career cruising account to explore career interests and begin building your resume</li> </ul> |
| <b>12th</b> | <ul style="list-style-type: none"> <li>Continue to take the most challenging courses you can</li> <li>Choose electives which support your possible career(s) and meet graduation and entry requirements</li> </ul>   | <ul style="list-style-type: none"> <li>Retake SAT or ACT (optional)</li> <li>√ ACT in September, October, &amp; December</li> <li>√ SAT I &amp; SAT II in October, November, December, &amp; January</li> </ul>  | <ul style="list-style-type: none"> <li>Line up at least three letters of recommendation from people who know you well (If you need them)</li> <li>Apply early to the selected colleges and/or career training centers...watch deadlines</li> <li>Make sure your applications are complete</li> <li>Apply for scholarships and financial aid</li> <li>Utilize your career cruising account to explore career interests, build a resume, search careers, colleges, &amp; scholarships</li> </ul>  |

## **I. GENERAL STUDIES**

|  |           |
|--|-----------|
| <b>A. FINE ARTS</b>                        | pg. 20-22 |
| <b>B. LANGUAGE ARTS</b>                    | pg. 23-24 |
| <b>C. MATHEMATICS</b>                      | pg. 25-26 |
| <b>D. BIOLOGICAL and PHYSICAL SCIENCES</b> | pg. 27-28 |
| <b>E. PHYSICAL DEVELOPMENT and HEALTH</b>  | pg. 29    |
| <b>F. SOCIAL SCIENCES</b>                  | pg. 30-31 |

## **II. CAREER AND TECHNICAL EDUCATION**

|  |           |
|--|-----------|
| <b>A. AGRICULTURE</b>                  | pg. 32-34 |
| <b>B. BUSINESS/TECHNOLOGY</b>          | pg. 30-35 |
| <b>D. FAMILY and CONSUMER SERVICES</b> | pg. 35-37 |
| <b>E. INDUSTRIAL ARTS</b>              | pg. 40-41 |
| <b>F. MISCELLANEOUS</b>                | pg. 41    |

## **III. SOUTH MACOUPIN COUNTY CONSORTIUM FOR INNOVATION & TECHNOLOGY**

|   |           |
|---|-----------|
| <b>A. MT. OLIVE HIGH SCHOOL COURSES</b> | pg. 42-43 |
|---|-----------|

\*\* All elective courses are offered when enough interest is demonstrated through student course requests - see counselor

\*\*\* Some courses are articulated with the Lewis and Clark Community College Partnership Program. We offer these courses with content designed to match the course content of Lewis and Clark Community College courses.

# GENERAL STUDIES

\*\*\*\*\*

## A. FINE ARTS

\*\*\*\*\*

### **CREATIVE ART COMPREHENSIVE/ART I**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 05154A000/05154G0.5013

CONTENT INCLUDES: Creative Art—Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

### **CREATIVE ART COMPREHENSIVE/ART II**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: Art I

STATE COURSE CODE/LOCAL COURSE CODE: 05154A000/05154G0.5033

CONTENT INCLUDES: Creative Art—Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

### **CREATIVE ART COMPREHENSIVE/ART III**

**ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: Art I & Art II

STATE COURSE CODE/LOCAL COURSE CODE: 05154A000/05154G0.5033

CONTENT INCLUDES: Creative Art—Comprehensive courses provide students with the knowledge and opportunity to explore an art form and to create individual works of art. These courses may also provide a discussion and exploration of career opportunities in the art world. Initial courses cover the language, materials, and processes of a particular art form and the design elements and principles supporting a work of art. As students advance and become more adept, the instruction regarding the creative process becomes more refined, and students are encouraged to develop their own artistic styles. Although Creative Art courses focus on creation, they may also include the study of major artists, art movements, and styles.

### **CREATIVE ART - DRAWING/PAINTING**

**ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: Art I, Art II, and Art III

STATE COURSE CODE/LOCAL COURSE CODE: 05155A000/05155G0.5011

CONTENT: Creative Art-Drawing/Painting courses cover the same topics as Creative Art-Comprehensive courses, but focus on drawing and painting. In keeping with this attention on two-dimensional work, students typically work with several media (such as pen-and-ink, pencil, chalk, watercolor, tempera, oils, acrylics, and so on), but some courses may focus on only one medium.

## **ART IV**

**ELIGIBILITY:** By permission of instructor

DURATION: Semester

PREREQUISITE: Art I, Art II, and Art III

STATE COURSE CODE/LOCAL COURSE CODE: 05170A000/05170G0.5011

CONTENT: Art Portfolio courses offer students the opportunity to create a professional body of work that reflects their personal style and talent. Students are often encouraged to display their work publicly.

## **ART PORTFOLIO**

**ELIGIBILITY:** By permission of instructor

DURATION: Year

PREREQUISITE: Art I, Art II, Art III and Art IV

STATE COURSE CODE/LOCAL COURSE CODE: 05170A000/05170G0.5011

CONTENT: Art Portfolio courses offer students the opportunity to create a professional body of work that reflects their personal style and talent. Students are often encouraged to display their work publicly.

## **MEDIA DESIGN**

**ELIGIBILITY:** 10-12

DURATION: Semester

PREREQUISITE: Art I, II & III

STATE COURSE CODE/LOCAL COURSE CODE: 05160A000/05155G0.5011

CONTENT INCLUDES: Printmaking/Graphics courses cover the same topics as Creative Art—Comprehensive courses, but focus on design principles, printmaking, and graphic design.

## **CERAMICS/POTTERY**

**ELIGIBILITY:** 10-12

DURATION: Semester

PREREQUISITE: Art I, II & III

STATE COURSE CODE/LOCAL COURSE CODE: 05159A000/05159G0.5011

CONTENT INCLUDES: Ceramics/Pottery courses cover the same topics as Creative Art—Comprehensive courses, but focus on creating three-dimensional works out of clay and ceramic material. Particular attention is paid to the characteristics of the raw materials, their transformation under heat, and the various methods used to create and finish objects.

## **GENERAL BAND**

**ELIGIBILITY:** 9-12

DURATION: Full Year

PREREQUISITE: Prior Band experience, permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 05101A000/05101G1.0011

CONTENT INCLUDES: General Band courses develop students' technique for playing brass, woodwind, and percussion instruments and cover a variety of non-specified band literature styles (concert, marching, orchestral, and modern styles).

## **COLOR GUARD**

**ELIGIBILITY:** 9-12

DURATION: First & Fourth quarters (1/4 credit for entire year)

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 08006A000/08006G0.2511

CONTENT INCLUDES: Corps Movement courses emphasize physical conditioning, fundamentals of movement, group precision, and public performance. The courses may be intended for members of various teams, including flag corps, rifle corps, cheerleading squads, and so on.

## **CHORUS**

**ELIGIBILITY: 9-12**

DURATION: Full Year

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 05110A000/05110G1.0011

CONTENT INCLUDES: Chorus courses provide the opportunity to sing a variety of choral literature styles for men's and/or women's voices and are designed to develop vocal techniques and the ability to sing parts.

## **MUSIC APPRECIATION**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: Prior Band experience, permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 05118A000/05118G1.0011

CONTENT INCLUDES: This course introduces students to the history, theory, and genres of music. The semester will cover basic music theory concepts as well as early musical forms, classical music, patriotic and nationalistic music, and twentieth-century music. The second semester presents modern traditions, including American jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop. The course explores the history of music, from the surviving examples of rudimentary musical forms through to contemporary pieces from around the world.

## **MUSIC THEORY**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: Prior Band experience, permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 05113A000/05113G1.0011

CONTENT INCLUDES: This course is for students who wish to gain a better understanding of music and how music works. Music Theory is taught as an introduction to music theory through the learning of scale patterns, chords, melody, harmony, ear training, composition, and much more. This class will incorporate music examples from various periods in history, as well as music in today's society. Although a "theory" course, students will have several opportunities to engage themselves creatively throughout the semester through composition, group performance, etc.

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## B. LANGUAGE ARTS

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### ENGLISH/LANGUAGE ARTS I (9<sup>TH</sup> GRADE)

**ELIGIBILITY: 9**

DURATION: Full Year

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 01001A000/01001G1.0011

CONTENT INCLUDES: English/Language Arts I (9th grade) courses build upon students' prior knowledge of grammar, vocabulary, word usage, and the mechanics of writing and usually include the four aspects of language use: reading, writing, speaking, and listening. Typically, these courses introduce and define various genres of literature, with writing exercises often linked to reading selections.

### ENGLISH/LANGUAGE ARTS II (10<sup>TH</sup> GRADE)

**ELIGIBILITY: 10**

DURATION: Full Year

PREREQUISITE: English I or concurrent enrollment in English I

STATE COURSE CODE/LOCAL COURSE CODE: 01002A000/01002G1.0011

CONTENT INCLUDES: English/Language Arts II (10th grade) courses usually offer a balanced focus on composition and literature. Typically, students learn about the alternate aims and audiences of written compositions by writing persuasive, critical, and creative multi-paragraph essays and compositions. Through the study of various genres of literature, students can improve their reading rate and comprehension and develop the skills to determine the author's intent and theme and to recognize the techniques used by the author to deliver his or her message.

### ENGLISH/LANGUAGE ARTS III (11<sup>TH</sup> GRADE)

**ELIGIBILITY: 11**

DURATION: Full Year

PREREQUISITE: English II or concurrent enrollment in English II

STATE COURSE CODE/LOCAL COURSE CODE: 01003A000/01003G1.0011

CONTENT: English/Language Arts III (11th grade) courses continue to develop students' writing skills, emphasizing clear, logical writing patterns, word choice, and usage, as students write essays and begin to learn the techniques of writing research papers. Students continue to read works of literature, which often form the backbone of the writing assignments. Literary conventions and stylistic devices may receive greater emphasis than in previous courses.

### ENGLISH/LANGUAGE ARTS IV (12<sup>TH</sup> GRADE)

**ELIGIBILITY: 12**

DURATION: Full Year

PREREQUISITE: English III or concurrent enrollment in English III

STATE COURSE CODE/LOCAL COURSE CODE: 01004A000/01004G1.0011

CONTENT: English/Language Arts IV (12th grade) courses blend composition and literature into a cohesive whole as students write critical and comparative analyses of selected literature, continuing to develop their language arts skills. Typically, students primarily write multi-paragraph essays, but they may also write one or more major research papers.

### ENGLISH COMPOSIT/ENGLISH 131 \*\*\*

**ELIGIBILITY: 12**

DURATION: Semester.

PREREQUISITE: English I, II, III and proper placement as determined by the Lewis and Clark Community College placement test (see page 4-5)

STATE COURSE CODE/LOCAL COURSE CODE: 01052A000/01052G0.5012

CONTENT: English/Literature (juniors and seniors) courses are designed for juniors and/or seniors and emphasize comprehension, discernment, and critical-thinking skills in the reading of texts and literature. These courses introduce and explore more advanced literary techniques (irony, satire, humor, connotation, tone, rhythm, symbolism, and so on) through two or more literary genres, with the aim of creating sophisticated readers. Writing assignments are required as an additional method to develop and improve critical-thinking and analytic skills.

## **ENGLISH COMPOSITION/ENGLISH 132 \*\*\***

### **ELIGIBILITY: 12**

DURATION: Semester.

PREREQUISITE: English I, II, III and proper placement as determined by the Lewis and Clark Community College placement test (see page 4-5) English 131 with a grade of C or better

STATE COURSE CODE/LOCAL COURSE CODE: 01052A000/01052G0.5022

CONTENT: English/Literature (juniors and seniors) courses are designed for juniors and/or seniors and emphasize comprehension, discernment, and critical-thinking skills in the reading of texts and literature. These courses introduce and explore more advanced literary techniques (irony, satire, humor, connotation, tone, rhythm, symbolism, and so on) through two or more literary genres, with the aim of creating sophisticated readers. Writing assignments are required as an additional method to develop and improve critical-thinking and analytic skills.

## **SPANISH I**

### **ELIGIBILITY: 9-12**

DURATION: Full Year

PREREQUISITE: Minimum grade of B in students last English course semester 1 & 2 or quarters 1, 2, 3, 4 of 8<sup>th</sup> grade year recommended or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 06101A000/06101G1.0011

CONTENT: Designed to introduce students to Spanish language and culture, Spanish I courses emphasize basic grammar and syntax, simple vocabulary, and the spoken accent so that students can read, write, speak, and understand the language at a basic level within predictable areas of need, using customary courtesies and conventions. Spanish culture is introduced through the art, literature, customs, and history of Spanish-speaking people.

## **SPANISH II**

### **ELIGIBILITY: 10-12**

DURATION: Full Year

PREREQUISITE: Spanish I, with minimum grade of B recommended or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 06102A000/06102G1.0011

CONTENT: Spanish II courses build upon skills developed in Spanish I, extending students' ability to understand and express themselves in Spanish and increasing their vocabulary. Typically, students learn how to engage in discourse for informative or social purposes, write expressions or passages that show understanding of sentence construction and the rules of grammar, and comprehend the language when spoken slowly. Students usually explore the customs, history, and art forms of Spanish-speaking people to deepen their understanding of the culture(s).

## **SPANISH III**

### **ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: Spanish II, with minimum grade of B recommended or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 06103A000/06103G1.0011

CONTENT: Spanish III courses focus on having students express increasingly complex concepts both verbally and in writing while showing some spontaneity. Comprehension goals for students may include attaining more facility and faster understanding when listening to the language spoken at normal rates, being able to paraphrase or summarize written passages, and conversing easily within limited situations.

## **SPANISH IV**

### **ELIGIBILITY: 12**

DURATION: Full Year

PREREQUISITE: Spanish III, with a minimum grade of B recommended or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 06104A000/06104G1.0011

CONTENT: Spanish IV courses focus on advancing students' skills and abilities to read, write, speak, and understand the Spanish language so that they can maintain simple conversations with sufficient vocabulary and an acceptable accent, have sufficient comprehension to understand speech spoken at a normal pace, read uncomplicated but authentic prose, and write narratives that indicate a good understanding of grammar and a strong vocabulary.



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## C. MATHEMATICS

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### ALGEBRA I

**ELIGIBILITY: 9**

DURATION: Full Year

PREREQUISITE: Freshman students that meet or exceed on the PARCC test and/or the PSAT as an 8<sup>th</sup> grade student will either be placed in Algebra I or Geometry.

STATE COURSE CODE/LOCAL COURSE CODE: 02052A000/02052G1.0011

CONTENT: Algebra I courses include the study of properties and operations of the real number system; evaluating rational algebraic expressions; solving and graphing first degree equations and inequalities; translating word problems into equations; operations with and factoring of polynomials; and solving simple quadratic equations.

### GEOMETRY

**ELIGIBILITY: 9-10**

DURATION: Full Year

PREREQUISITE: Algebra I for grades 10-12 or permission from administration; minimum grade of B required for grade 9 or permission of administration and/or the student met or exceeded on the PSAT test as an 8<sup>th</sup> grader.

STATE COURSE CODE/LOCAL COURSE CODE: 02071A000/02071G1.0011

CONTENT: Informal Geometry courses emphasize a practical approach to the study of geometry and deemphasize an abstract, formal approach. Topics typically include properties of and work with plane and solid figures; inductive methods of reasoning and use of logic; concepts of congruence, similarity, parallelism, perpendicularity, and proportion; and rules of angle measurement in triangles.

### TRANSITION ALGEBRA

**ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: Algebra I and Geometry, with minimum grade of C recommended for grades 11-12 or permission from administration; juniors who did not meet or exceed on the PSAT the prior year are eligible for Transition Algebra.

STATE COURSE CODE/LOCAL COURSE CODE: 02055A000/02055G1.0011

CONTENT: Transition Algebra courses review and extend algebra and geometry concepts for students who have already taken Algebra I and Geometry. Transition Algebra courses include a review of such topics as properties and operations of real numbers; evaluation or rational algebraic expressions; solutions and graphs of first degree equations and inequalities; translation of word problems into equations; operations with and factoring of polynomials, simple quadratics; properties of plane and solid figures; rules of congruence and similarity; coordinate geometry including lines, segments, and circles in the coordinate plane; and angle measurement in triangles including trigonometric ratios.

### ALGEBRA II

**ELIGIBILITY: 10-12**

DURATION: Full Year

PREREQUISITE: Algebra I & Geometry with a minimum grade of C recommended or permission of administration; juniors who met or exceeded on the PSAT as a 10<sup>th</sup> grader are eligible for Algebra II.

STATE COURSE CODE/LOCAL COURSE CODE: 02056A000/02056G1.0011

CONTENT: Algebra II course topics typically include field properties and theorems; set theory; operations with rational and irrational expressions; factoring of rational expressions; in-depth study of linear equations and inequalities; quadratic equations; solving systems of linear and quadratic equations; graphing of constant, linear, and quadratic equations; properties of higher degree equations; and operations with rational and irrational exponents.

### **PRE-CALCULUS/MATH 117/170 \* \* \***

#### **ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: Algebra II, with a minimum grade of B recommended or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 02110A000/02110G1.0011

CONTENT: Pre-Calculus courses combine the study of Trigonometry, Elementary Functions, Analytic Geometry, and Math Analysis topics as preparation for calculus. Topics typically include the study of complex numbers; polynomial, logarithmic, exponential, rational, right trigonometric, and circular functions, and their relations, inverses and graphs; trigonometric identities and equations; solutions of right and oblique triangles; vectors; the polar coordinate system; conic sections; Boolean algebra and symbolic logic; mathematical induction; matrix algebra; sequences and series; and limits and continuity.

### **CALCULUS/MATH 265 \* \* \***

#### **ELIGIBILITY: 12**

DURATION: Full Year

PREREQUISITE: Pre-Calculus with minimum grade of B recommended or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 02121A000/02121G1.0011

CONTENT: Calculus courses include the study of derivatives, differentiation, integration, the definite and indefinite integral, and applications of calculus. Typically, students have previously attained knowledge of pre-calculus topics (some combination of trigonometry, elementary functions, analytic geometry, and math analysis).

### **CAREER AND LIFE SKILLS MATH**

#### **ELIGIBILITY: 12**

DURATION: Full Year

PREREQUISITE: Algebra I and Geometry

STATE COURSE CODE/LOCAL COURSE CODE: 02201A001/02201.0011

CONTENT: Math course framework designed to prepare and transition students directly into college and career pathways requiring general education college level math competencies in quantitative literacy and statistics. The competencies within each domain should include, but are not limited to: numeracy (operation sense, estimation, measurement, quantitative reasoning, basic statistics, and mathematical summaries), application based algebraic topics, and functions and modeling. Upon completion students should be able to: demonstrate proficiency and understanding in basic numeracy competencies in whole numbers, integers, fractions, and decimals, use estimation and explain/justify estimates, apply quantitative reasoning to solve problems involving quantities or rates, use mathematical summaries of data such as mean, median, and mode, use and apply algebraic reasoning as one of multiple problem solving tools, and use functions and modeling processes. Course to be delivered through authentic application, problem based instruction designed to build mathematical conceptual understanding and critical thinking skills.

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## D. BIOLOGICAL AND PHYSICAL SCIENCES

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### CONCEPTUAL BIOLOGY

**ELIGIBILITY: 9-12**

DURATION: Year

PREREQUISITE: None (Instructor Placement)

STATE COURSE CODE/LOCAL COURSE CODE: 03062A000/03062R1.0011

CONTENT: These courses provide students with a basic understanding of living things. Topics covered may include ecology and environmental problems such as overpopulation and pollution as well as cells, types of organisms, evolutionary behavior, and inheritance.

### PHYSICAL SCIENCE

**ELIGIBILITY: 9-12**

DURATION: 1st Semester\* Enrollment in this course requires 2nd semester enrollment in Earth Science.

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 03159A000/03159G1.0011

CONTENT: Physical Science courses involve study of the structures and states of matter. Typically (but not always) offered as introductory survey courses, they may include such topics as forms of energy, wave phenomenon, electromagnetism, and physical and chemical interactions.

### EARTH SCIENCE

**ELIGIBILITY: 9-12**

DURATION: 2nd Semester

PREREQUISITE: Physical Science

STATE COURSE CODE/LOCAL COURSE CODE: 03001A000/03001R1.0011

CONTENT: Earth Science courses offer insight into the environment on earth and the earth's environment in space. While presenting the concepts and principles essential to students' understanding of the dynamics and history of the earth, these courses usually explore oceanography, geology, astronomy, meteorology, and geography.

### CONSERVATION AND NATURAL RESOURCES

**ELIGIBILITY: 9-12**

DURATION: Year

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 18504A002

CONTENT: The Natural Resources and Conservation course develops management and conservation skills in understanding the connection between agriculture and natural resources. Student knowledge and skills are developed in: understanding natural resources and its importance; fish, wildlife, and forestry management and conservation; and exploring outdoor recreational enterprises. Hunting and fishing as a sport, growing and managing tree forests, and outdoor safety education will be featured. Career exploration will be discussed including: park ranger, game warden, campground manager, forester, conservation officer, wildlife manager, and related occupations.

### PLANT AND ANIMAL BIOLOGY

**ELIGIBILITY: 10-12**

DURATION: Semester - Plant Biology semester one only/Animal Biology semester two only

PREREQUISITE: One semester of Intro to Agriculture Industry or one semester of Intro to Technology or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 18101A001/18101G0.5011

CONTENT: This year-long course is based on the Next Generation Science Standards (NGSS) – Life Sciences and the National Agriculture, Food and Natural resources (AFNR) Standards. The relevance of science is conveyed and reinforced through the applied setting of agriculture by enhancing literacy in science and scientific processes as applied to plants and animals. Student learning is extended through scientific inquiry strategies including lab-oriented methods focusing on observational skills, experimental methods, and deductive reasoning. Topics include cell biology, anatomy, genetics, reproduction, heredity, physiology, growth, management and agroecology of plants and animals. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

## **BIOLOGY**

**ELIGIBILITY: 10-12 (9 upon recommendation of administration)**

DURATION: Full Year

PREREQUISITE: Intro to Biology, Physical Science. 9<sup>th</sup> grade students that are eligible for Biology I must be concurrently enrolled in Geometry & Physical Science

STATE COURSE CODE/LOCAL COURSE CODE: 03051A000/03051G1.0011

CONTENT: Biology courses are designed to provide information regarding the fundamental concepts of life and life processes. These courses include (but are not restricted to) such topics as cell structure and function, general plant and animal physiology, genetics, and taxonomy.

## **ANATOMY AND PHYSIOLOGY/BIOLOGY 132 \* \* \***

**ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: Biology I and consent of administration

STATE COURSE CODE/LOCAL COURSE CODE: 03053A000/03053G1.0011

CONTENT: Usually taken after a comprehensive initial study of biology, Anatomy and Physiology courses present the human body and biological systems in more detail. In order to understand the structure of the human body and its functions, students learn anatomical terminology, study cells and tissues, explore functional systems (skeletal, muscular, circulatory, respiratory, digestive, reproductive, nervous, and so on), and may dissect mammals.

## **CHEMISTRY**

**ELIGIBILITY: 10-12**

DURATION: Full Year

PREREQUISITE: Algebra I and consent of administration

STATE COURSE CODE/LOCAL COURSE CODE: 03101A000/03101G1.0011

CONTENT: Chemistry courses involve studying the composition, properties, and reactions of substances. These courses typically explore such concepts as the behaviors of solids, liquids, and gases; acid/base and oxidation/reduction reactions; atomic structure; chemical formulas and equations; nuclear reactions; and stoichiometry.

## **CHEMISTRY – ADVANCED STUDIES/GENERAL CHEMISTRY I 141 & RECITATION 121**

**ELIGIBILITY: 12 or 11 upon consent of instructor**

DURATION: Full year

PREREQUISITE: Algebra I, and Chemistry (C grades or better recommended) or consent of administration.

STATE COURSE CODE/LOCAL COURSE CODE: 03102A000/03102G1.0011

CONTENT: Usually taken after a comprehensive initial study of chemistry, Chemistry—Advanced Studies courses cover chemical properties and interactions in more detail. Advanced chemistry topics include organic chemistry, thermodynamics, electrochemistry, macromolecules, kinetic theory, and nuclear chemistry.

## **PHYSICS**

**ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: Conceptual Physics and Algebra II (C grades or better recommended) or consent of administration.

STATE COURSE CODE/LOCAL COURSE CODE: 03151A000/03151G1.0011

CONTENT: Physics courses involve the study of the forces and laws of nature affecting matter, such as equilibrium, motion, momentum, and the relationships between matter and energy. The study of physics includes examination of sound, light, and magnetic and electric phenomena.

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**E. PHYSICAL DEVELOPMENT AND HEALTH**

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**DRIVER EDUCATION – CLASSROOM ONLY**

**ELIGIBILITY: 9-12**

DURATION: Quarter

PREREQUISITE: Students must have earned adequate credits and meet age requirement (see counselor for details)

STATE COURSE CODE/LOCAL COURSE CODE: 08151A000/08151G0.2511

CONTENT: Drivers’ Education—Classroom Only courses provide students with the knowledge to become safe drivers on America’s roadways. Topics in these courses include legal obligations and responsibility, rules of the road and traffic procedures, safe driving strategies and practices, and the physical and mental factors affecting the driver’s capability (including alcohol and other drugs). Thirty hours of classroom instruction is required. If a student is unable to meet the thirty hour classroom requirement due to poor attendance they will be removed from the class.

**DRIVER EDUCATION – BEHIND THE WHEEL**

**ELIGIBILITY: 9-12**

DURATION: Quarter

PREREQUISITE: Driver Education Classroom

STATE COURSE CODE/LOCAL COURSE CODE: 08199A000/08199G0.2511

CONTENT: Experience in driving a vehicle is an essential component of this course. Six hours of behind the wheel training is required. Poor attendance during behind the wheel training will result in the removal from this class.

**HEALTH EDUCATION**

**ELIGIBILITY: 9-10**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 08051A000/08001G1.0011

CONTENT: Topics covered within Health Education courses may vary widely, but typically include personal health (nutrition, mental health and stress management, drug/alcohol abuse prevention, disease prevention, and first aid) and consumer health issues. The courses may also include brief studies of environmental health, personal development, and/or community resources.

**PHYSICAL EDUCATION**

**ELIGIBILITY: 9-12**

DURATION: Full Year

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 08001A000/08001G1.0011

CONTENT: Physical Education courses provide students with knowledge, experience, and an opportunity to develop skills in more than one of the following sports or activities: team sports, individual/dual sports, recreational sports, and fitness/conditioning activities.

**STRENGTH AND CONDITIONING PHYSICAL EDUCATION**

**ELIGIBILITY: 9-12**

DURATION: Full Year

PREREQUISITE: Multi-sport athlete

STATE COURSE CODE/LOCAL COURSE CODE: 08005A000/08005G1.0011

CONTENT: This course is designed to provide students with fitness gains such as strength, endurance, flexibility, body composition, agility, cardio respiratory endurance, and injury prevention.

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**F. SOCIAL SCIENCES**  
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**ANCIENT CIVILIZATIONS**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 04058A000/04058G0.5011

CONTENT: Ancient Civilizations courses provide a survey of the evolution of society from the ancient Middle East through Greek and Roman civilizations. Typically, in these courses, students study the rise and fall of civilizations and empires, with an emphasis on the legacies they provide to successive societies.

**MODERN WORLD HISTORY**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 04053A000/04053G0.5011

CONTENT: Modern World History courses provide an overview of the history of human society in the past few centuries—from the Renaissance period, or later, to the contemporary period—exploring political, economic, social, religious, military, scientific, and cultural developments.

**PARTICULAR TOPICS IN GEOGRAPHY/WESTERN GEOGRAPHY**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 04002A000/04002G0.5011

CONTENT: Particular Topics in Geography courses examine a particular topic in geography, such as physical or cultural geography, or the geography of a particular area or region, rather than provide an overview of the field. Geography of the Western Hemisphere is the study of physical, cultural, social, political, economic, and historical geography. In this course the five themes of geography (location, place, human/environment interaction, movement, and regions) are applied to the study of the U.S. and Canada, Latin America, Northern Eurasia (Russia), and Europe. Emphasis is on maps and current issues.

**PARTICULAR TOPICS IN GEOGRAPHY/EASTERN GEOGRAPHY**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 04002A000/04002G0.5011

CONTENT: Particular Topics in Geography courses examine a particular topic in geography, such as physical or cultural geography, or the geography of a particular area or region, rather than provide an overview of the field. Geography of the Eastern Hemisphere is the study of physical, cultural, social, political, economic, and historical geography. In this course the five themes of geography (location, place, human/environment interaction, movement, and regions) are applied to the study of the Middle East, Africa, East, Southeast, and South Asia, Australia, Oceania, and Antarctica. Emphasis is on maps and current issues.

**US GOVERNMENT - COMPREHENSIVE**

**ELIGIBILITY: 11-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 04151A000/04151G0.5011

CONTENT: U.S. Government—Comprehensive courses provide an overview of the structure and functions of the U.S. government and political institutions and examine constitutional principles, the concepts of rights and responsibilities, the role of political parties and interest groups, and the importance of civic participation in the democratic process. These courses may examine the structure and function of state and local governments and may cover certain economic and legal topics. Fulfills civics requirement. US & IL Constitution test required during this course.

## **UNITED STATES HISTORY - COMPREHENSIVE**

**ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 04101A000/04101G1.0011

CONTENT: U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement.

## **UNITED STATES HISTORY – HISTORY 231/232\*\*\***

**ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: Passing of LCCC placement test (see page 4-5 for details)

STATE COURSE CODE/LOCAL COURSE CODE: 04101A000/04101G1.0011

CONTENT: U.S. History—Comprehensive courses provide students with an overview of the history of the United States, examining time periods from discovery or colonialism through World War II or after. These courses typically include a historical overview of political, military, scientific, and social developments. Course content may include a history of the North American peoples before European settlement. Course will also follow LCCC guidelines.

## **SOCIOLOGY**

**ELIGIBILITY: 11-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 04258A000/04258G0.5011

CONTENT: Sociology courses introduce students to the study of human behavior in society. These courses provide an overview of sociology, generally including (but not limited to) topics such as social institutions and norms, socialization and social change, and the relationships among individuals and groups in society.

## **POLITICAL SCIENCE/POLITICAL SCIENCE 131\*\*\***

**ELIGIBILITY: 11-12**

DURATION: Semester

PREREQUISITE: Passing of LCCC placement test (see page 4-5 for details)

STATE COURSE CODE/LOCAL COURSE CODE: 041530A000/04153G0.5011

CONTENT: Political Science courses approach the study of politics from a theoretical perspective, including an examination of the role of government and the nature of political behavior, political power, and political action. Fulfills Civics requirements. US & IL Constitution test required during this course. Course will also follow LCCC guidelines.

## II. CAREER AND TECHNICAL EDUCATION

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### A. AGRICULTURE

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#### **INTRODUCTION TO THE AGRICULTURAL INDUSTRY**

**ELIGIBILITY: 9-11 (12 upon consent of administration)**

DURATION: Full Year

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 18001A001/18001G1.0012

CONTENT: This course provides an opportunity for students to learn how the agricultural industry is organized; its major components; the economic influence of agriculture at state, national and international levels; and the scope and types of job opportunities in the agricultural field. Basic concepts in animal science, plant science, soil science, horticulture, natural resources, agribusiness management, and agricultural mechanics, will be presented. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

#### **AGRICULTURAL BUSINESS MANAGEMENT**

**ELIGIBILITY: 11-12**

DURATION: Full Year (Offered during even-numbered years only)

PREREQUISITE: One semester of Introduction to Ag, Intro to Tech or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 18201A001/18201G0.5011

CONTENT: This course will provide students with the basic knowledge and skills necessary to manage personal finances and develop into a successful entrepreneur and/or businessperson. Instructional units include: business ownership types, starting an agribusiness, managing and operating an agribusiness, financing an agribusiness, managing personal finances, record keeping and financial management of an agribusiness, local, state, and federal taxes, agricultural law, and developing employability skills. Student skills will be enhanced in math, reading comprehension, and writing through agribusiness applications. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

#### **HORTICULTURAL PRODUCTION & MANAGEMENT**

**ELIGIBILITY: 10-12**

DURATION: Semester (second semester only)

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 18051A001/18051G0.5011

CONTENT: This course offers instruction in both the greenhouse production and landscape areas of horticulture. Units of study include plant identification, greenhouse management, growing greenhouse crops, landscape design, installation, and maintenance, horticulture mechanics, nursery management, and turf production. Agribusiness units will cover operating a horticultural business, pricing work, advertising, and sales. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

#### **FLORAL DESIGN BUSINESS MANAGEMENT**

**ELIGIBILITY: 10-12**

DURATION: Semester (first semester only)

PREREQUISITE: One semester of Ag class or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 18056A001

CONTENT: Floral Design will introduce students to the foundations and the technical methods of flower arranging as well as composition, color, and design. Topics include the study of basic design principles, flower choice, professional tools, and decorative uses and arrangements of flowers, foliage, and accessories. Along with floral design concepts, students will be actively engaged in business management, marketing, entrepreneurship, and customer service.



## **VETERINARY TECHNOLOGY**

### **ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: Plant and Animal Biology (with approval) or Biology I

STATE COURSE CODE/LOCAL COURSE CODE: 18105A001A000/18105G1.0011

CONTENT: This course will develop students' understanding of the small and companion animal industry, animal anatomy and physiology, animal ethics and welfare issues, animal health, veterinary medicine, veterinary office practices, and animal services to humans. Career exploration will focus on veterinarian, veterinary lab technicians, office lab assistant, small animal production, research lab assistant, and animal nutrition lab technician. Improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

## **BASIC AGRICULTURAL MECHANICS**

### **ELIGIBILITY: 10-12**

DURATION: Semester (first semester only)

PREREQUISITE: One semester of Intro to Agriculture Industry or one semester of Intro to Technology or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 18401A001/18401G0.5011

CONTENT: In this course, theory and hands-on experiences provide opportunities for students to develop basic knowledge and skills in agricultural mechanics. Instructional areas include the basic fundamentals of maintaining and repairing small gasoline engines, basic electricity, welding, construction, cold metal work, and operating agricultural equipment safely. Improving workplace and computer skills will be a focus. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

## **AGRICULTURE COMPUTERS & TECHNOLOGY**

### **ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: Intro to Agriculture or Intro to Technology; preferred completion of Robotics or CAD I.

STATE COURSE CODE/LOCAL COURSE CODE: 18205A001/18205G0.5011

CONTENT: Students develop their knowledge and skills in using computers and other technology to operate and manage agricultural businesses. This course allows students to use computer hardware, software, and the Internet to find information and learn and operate computer numerical control machines. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration, and reinforcement of academic concepts.

## **LANDSCAPE DESIGN & MANAGEMENT**

### **ELIGIBILITY: 10-12**

DURATION: Full Year (Offered during odd-numbered years only)

PREREQUISITE: One semester of Intro to Agriculture Industry or one semester of Intro to Technology or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 18054A002/18054G0.5011

CONTENT: Focus on the landscape and nursery of the horticulture industry. Units of student instruction include identifying landscape plants, designing landscape plans, hardscape construction techniques and installing landscape plants. Also included are nursery production, and maintenance of existing landscapes. Agribusiness units will cover calculating prices for work, managing a horticulture business, advertising and sales, improving computer and workplace skills will be a focus. Participation in FFA student organization activities and Supervised Agriculture Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

## **CONSERVATION AND NATURAL RESOURCES**

### **ELIGIBILITY: 9-12**

DURATION: Year

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 18504A002

CONTENT: The Natural Resources and Conservation course develops management and conservation skills in understanding the connection between agriculture and natural resources. Student knowledge and skills are developed in: understanding natural resources and its importance; fish, wildlife, and forestry management and conservation; and exploring outdoor recreational enterprises. Hunting and fishing as a sport, growing and managing tree forests, and outdoor safety education will be featured. Career exploration will be discussed including: park ranger, game warden, campground manager, forester, conservation officer, wildlife manager, and related occupations.

## **PLANT AND ANIMAL BIOLOGY**

### **ELIGIBILITY: 10-12**

DURATION: Semesters - Plant Biology semester one only/Animal Biology semester two only

PREREQUISITE: One semester of Intro to Agriculture Industry or one semester of Intro to Technology or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 18101A001/18101G0.5011

CONTENT: This year-long course is based on the Next Generation Science Standards (NGSS) – Life Sciences and the National Agriculture, Food and Natural resources (AFNR) Standards. The relevance of science is conveyed and reinforced through the applied setting of agriculture by enhancing literacy in science and scientific processes as applied to plants and animals. Student learning is extended through scientific inquiry strategies including lab-oriented methods focusing on observational skills, experimental methods, and deductive reasoning. Topics include cell biology, anatomy, genetics, reproduction, heredity, physiology, growth, management and agroecology of plants and animals. Participation in FFA student organization activities and Supervised Agricultural Experience (SAE) projects is an integral course component for leadership development, career exploration and reinforcement of academic concepts.

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## **B. BUSINESS**

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### **COMPUTER CONCEPTS AND SOFTWARE APPLICATIONS**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 10004A001/10004G0.5011

CONTENT: Computer Concepts and Software Applications is an orientation-level course designed to develop awareness and understanding of application software and equipment used by employees to perform tasks in business, marketing and management. Students will apply problem-solving skills to hands-on, real-life situations using a variety of software applications, such as word processing, spreadsheets, database management, presentation software, and desktop publishing. Students will explore topics related to computer concepts, operating systems, telecommunications and emerging technologies. The development of employability skills, as well as transition skills, will be included in the course as well as an understanding of the ethical considerations that arise in using information processing equipment and gaining access to available databases.

### **INFORMATION PROCESSING I**

**ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: Computer Concepts

STATE COURSE CODE/LOCAL COURSE CODE: 1005A001/1005G0.5011

CONTENT: Information Processing I is a skill-level course that includes the concepts and terminology related to the people, equipment, and procedures of information processing as well as skill development in the use of information processing equipment. Students will operate computer equipment to prepare memos, letters, reports, and forms. Students will create rough drafts, correct copy, process incoming and outgoing telephone calls and mail, and transmit and receive messages electronically. Students will create, input, and update databases and spreadsheets. Students will create data directories; copy, rename, move, and delete files, and perform backup procedures. In addition, students will prepare files to merge, as well as create mailing labels and envelopes from merge files. Students will learn to locate and retrieve information from hard copy and electronic sources, and prepare masters for a presentations using presentation software. Students will apply proper grammar, punctuation, spelling and proofreading practices. Accuracy will be emphasized. Workplace skills as well as communication skills (thinking, listening, composing, revising, editing, and speaking) will be taught and integrated throughout this course.

### **ROBOTICS**

**ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: Computer Concepts

STATE COURSE CODE/LOCAL COURSE CODE: 21009A001/21009G0.5011

CONTENT INCLUDES: Robotics courses develop and expand students' skills and knowledge so that they can design and develop robotic devices. Topics covered in the course may include mechanics, electrical and motor controls, pneumatics, computer basics, and programmable logic controllers.

### **COMPUTER AND INFORMATION SCIENCES – INTEGRATED OFFICE PROJECTS**

**ELIGIBILITY: 11-12**

DURATION: Semester

PREREQUISITE: Computer Concepts, Information Processing, and Webpage Design

STATE COURSE CODE/LOCAL COURSE CODE: 10999A000/10999G0.5011

CONTENT: Integrated Office Projects is a capstone course that uses Microsoft Word, Excel, Access, PowerPoint, Publisher and Adobe Dreamweaver. Students will apply prior knowledge of the software learned in order to complete a series of real-world projects. This course promotes creativity, decision-making and critical-thinking skills, in addition to time management skills. Students will type memos, letters and forms using Word; create spreadsheets using Excel; develop presentations using PowerPoint; create business cards, brochures, newsletters, and advertisements using Publisher; create a database of information; develop a multi-page Web site using Dreamweaver.

## **ENTREPRENEURSHIP**

### **ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 12053A001/12053G0.5011

CONTENT: Entrepreneurship courses acquaint students with the knowledge and skills necessary to own and operate their own businesses. Topics from several fields typically form the course content: economics, marketing principles, human relations and psychology, business and labor law, legal rights and responsibilities of ownership, business and financial planning, finance and accounting, and communication. Several topics surveyed in Business Management courses may also be included.

## **ADVANCED MARKETING**

ELIGIBILITY: 10-12

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 12152A001/12152G0.5011

CONTENTS: Marketing—Comprehensive courses focus on the wide range of factors that influence the flow of goods and services from the producer to the consumer. Topics may include (but are not limited to) market research, the purchasing process, distribution systems, warehouse and inventory control, salesmanship, sales promotions, shoplifting and theft control, business management, and entrepreneurship. Human relations, computers, and economics are often covered as well.

## **CONSUMER ECONOMICS/FAMILY RESOURCE MANAGEMENT**

### **ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 22210A001/22210G0.5011

CONTENT: This course focuses on the identification and management of personal and family resources to meet the needs, values, and wants of individuals and families throughout the life cycle. The course utilizes a variety of project-based experiences and service learning opportunities to gain knowledge and expertise in understanding and applying management skills, with consideration to diverse social, economic, technological, environmental, and cultural characteristics of individuals and families. Topics include: consumer rights and responsibilities in the marketplace; financial responsibility and decision making; planning and money management; credit and debt; risk management and insurance; saving and investment; homeownership; state and federal taxes; electronic banking; and current issues in the economy. This course fulfills state consumer education graduation requirement.

## **CREATING ENTREPRENEURIAL OPPORTUNITIES**

### **ELIGIBILITY: Full Year**

PREREQUISITE: Students must be on track to graduate and in 12<sup>th</sup> grade.

STATE COURSE CODE/LOCAL COURSE CODE: Semester 1: 22153A001/22153G0.5012 Semester 2: 22153A001/22153G0.5022

CONTENT: CEO is a year-long course designed to utilize partnerships that provide an overview of business development and processes. Our local business community partners with area schools to create project-based experiences for students by providing funding, expertise, meeting space, business tours, and one-on-one mentoring. Students visit area businesses, learn from guest speakers, participate in a class business, write business plans, and start and operate their own businesses. Business concepts learned through the experiential CEO class are critical; the 21<sup>st</sup> century skills of problem-solving, teamwork, self-motivation, responsibility, higher-order thinking, communication and inquiry are at the heart of a student's development throughout the course.

## **CAREER EXPLORATION/CAREER DEVELOPMENT 130/JOB 132 \*\*\***

### **ELIGIBILITY: 11 -12**

DURATION: Semester

PREREQUISITE: None (see page 4-5 for details)

STATE COURSE CODE/LOCAL COURSE CODE: 22151A001/22004G1.5011

CONTENT: Career Exploration courses help students identify and evaluate personal goals, priorities, aptitudes, and interests with the goal of helping them make informed decisions about their careers. These courses expose students to various sources of information on career and training options and may also assist them in developing job search and employability skills.

## **WORKPLACE EXPERIENCE**

### **ELIGIBILITY: Semester / Full Year**

PREREQUISITE: Students must be on track to graduate and in 12<sup>th</sup> grade.

STATE COURSE CODE/LOCAL COURSE CODE: 22998A000/22998G0.5011

CONTENT: Workplace Experience courses provide students with work experience in a field related to their interests. Goals are typically set cooperatively by the student, teacher, and employer (although students are not necessarily paid). These courses may include classroom activities as well, involving further study of the field or discussion regarding experiences that students encounter in the workplace. Note: if the particular subject area is known, use the code associated with the Workplace Experience course within that subject area.

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**D. FAMILY AND CONSUMER SCIENCE**  
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**NUTRITION AND CULINARY ARTS I**

**ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 16054A001/16054G0.5011

CONTENT: This course includes classroom and laboratory experiences needed to develop a knowledge and understanding of culinary principles and nutrition for people of all ages. Course content encompass': food service and preparation management using the decision-making process; meeting basic needs by applying nutrition concepts; meeting health, safety, and sanitation requirements; maximizing resources when planning/preparing/preserving/serving food; applying hospitality skills; analyzing nutritional needs in relation to change; and careers in nutrition and culinary arts, including entrepreneurship investigation.

**NUTRITION AND CULINARY ARTS II**

**ELIGIBILITY: 11-12**

DURATION: Semester

PREREQUISITE: Nutrition & Culinary Arts I

STATE COURSE CODE/LOCAL COURSE CODE: 16054A002/16054G0.5011

CONTENT: Nutrition and Culinary Arts II provides principles of application into the hospitality industry, including nutrition, culinary, and entrepreneurial opportunities. Course content includes the following: selection, purchase, preparation, and conservation of food, dietary needs and trends, regional & international cuisine, safety and sanitation, and careers in food service industries. All of these concepts can be interpreted through laboratory experiences.

**NUTRITION AND CULINARY ARTS III/CULINARY OCCUPATIONS**

**ELIGIBILITY: 11-12**

DURATION: Semester

PREREQUISITE: Nutrition & Culinary Arts I and Nutrition & Culinary Arts II

STATE COURSE CODE/LOCAL COURSE CODE: 16052A001/16052G0.5011

CONTENT: This course provides terminology, culinary math, and practical experiences needed for the development of culinary competencies and workplace skills. Safety and sanitation instruction and classroom application will prepare students for an industry recognized sanitation exam Classroom experiences will develop skills to work in the front of the house, back of the house, and workstations. Additional content may include: event planning, customer service and relations, food service styles, baking and pastry arts, hors d'oeuvres, and breakfast cookery. Students will be provided opportunity training experiences on commercial equipment.

**TEXTILES AND DESIGN I**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 19201A001/19201G0.5011

CONTENT: This course is designed to provide basic knowledge and understanding of the design, development, and production of textile products. Through hands-on and project based learning experiences students will discover fiber characteristics, fabric construction methods, elements of science and design in textiles and apparel, and basic construction skills used in interior furnishings and apparel industries. This course emphasizes awareness and investigation of careers and industry trends in textiles.

**TEXTILES AND DESIGN II**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: Completing Textiles and Design I with a B- or higher

STATE COURSE CODE/LOCAL COURSE CODE: 19203A001/19203G0.5011

CONTENT: This course is designed to provide advanced knowledge and understanding of the design, development, and production of textile products. Through hands-on learning experiences, students will explore new and progressive sewing techniques to hone skills for self-chosen projects, some of which will be industry standards, and others of which will be created by the students themselves. This course emphasizes time management and creativity skills within the fashion industry.

**LIFE SKILLS****ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 22206A000/22206G0.5011

CONTENT: Life Skills courses provide students with information about a wide range of subjects to assist them in becoming wise consumers and productive adults. These courses often emphasize such topics as goal-setting, decision-making, and setting priorities; money and time management; relationships; and the development of the self. Practical exercises regarding selecting and furnishing houses, meeting transportation needs, preparing food, selecting clothing, and building a wardrobe are often integral to these classes. In addition, specific topics such as insurance, taxation, and consumer protection may also be covered.

**CHILD DEVELOPMENT AND PARENTING****ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 19052A001/19052G0.5011

CONTENT: Child Development and Parenting addresses the knowledge, skills, attitudes, and behaviors associated with supporting and promoting optimal growth and development of infants and children. The focus is on research-based nurturing and parenting practices and skills, including brain development research, that support positive development of children. Students will explore opportunities in human services and education-related careers and develop a career portfolio.

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## **E. INDUSTRIAL ARTS**

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### **INTRODUCTION TO TECHNOLOGY AND ENGINEERING (INDUSTRIAL)**

**ELIGIBILITY: 9-12**

**DURATION:** Full Year

**PREREQUISITE:** None

**STATE COURSE CODE/LOCAL COURSE CODE:** 21052A002/21052G1.0012

**CONTENT:** Introduction to Technology & Engineering is comprised of the following areas: Production, Transportation, Communication, Energy Utilization and Engineering Design but is not limited to these areas only. This course will cover the resources, technical processes, industrial applications, technological impact and occupations encompassed by that system.

### **CONSTRUCTION TRADES I**

**ELIGIBILITY: 10-12**

**DURATION:** Semester (first semester only)

**PREREQUISITE:** One semester of Introduction to Technology and Engineering or one semester of Introduction to Agricultural Industry or permission of administration

**STATE COURSE CODE/LOCAL COURSE CODE:** 17002A001/17002G0.5011

**CONTENT:** This course provides experiences related to the erection, installation, and maintenance of residential buildings and related fixtures. Planned learning activities allow students to understand fundamental principles and methods, and develop technical skills related to masonry, carpentry, and finish work. Instruction includes safety principles and practices, recognition of standard lumber sizes, foundation layout methods, building concepts and procedures, local, state, and national codes, cost estimating, and blueprint reading.

### **CONSTRUCTION TRADES II**

**ELIGIBILITY: 11-12**

**DURATION:** Full Year

**PREREQUISITE:** Construction Trades I or permission of administration

**STATE COURSE CODE/LOCAL COURSE CODE:** 17002A002/17002G0.5012/2<sup>nd</sup> semester 17002G0.5022

**CONTENT:** This course provides learning experiences related to the erection, installation, maintenance, and repair of building structures and related utilities. Student technical skill experiences include instruction and activities in safety principles and practices, performing maintenance control functions, joining pipes, building water distribution lines and drains, installing and maintaining plumbing fixtures and systems, installing switch and outlet boxes, light fixtures, service entrances, roughing in and trimming out electrical devices and appliances, preparing foundations and footings, constructing residential chimneys and fireplaces, laying, jointing and pointing brick, and advanced building and construction methods and codes. All learning experiences are designed to allow the student to acquire job-entry skills and knowledge.

### **CONSTRUCTION TRADES III – INDEPENDENT STUDY**

**ELIGIBILITY: 12**

**DURATION:** Full year

**PREREQUISITE:** Full year of Construction Trades II or permission of administration

**STATE COURSE CODE/LOCAL COURSE CODE:** 17047A000 /17047G0.5012/ 2<sup>nd</sup> semester 17047G0.5022

**CONTENT:** General Constructions- Independent Study courses, often conducted with instructors as mentors, enable students to explore construction-related topics of interest. Independent Study courses may serve as an opportunity for students to expand their expertise in a particular application, to explore a topic in greater detail, or to develop more advanced skills.

### **ENERGY UTILIZATION TECHNOLOGY**

**ELIGIBILITY: 9-12**

**DURATION:** Semester

**PREREQUISITE:** None

**STATE COURSE CODE/LOCAL COURSE CODE:** 20101A001/20101G0.5011

**CONTENT:** Energy Utilization Technology is a course designed to foster an awareness and understanding of how we use energy in our industrial technological society. Areas of study include conversion of energy, electrical fundamentals, solar energy resources, alternate energy resources such as wind, water, and geothermal; fossil fuels, nuclear power, energy conservation, and computer uses in energy technology. Students use laboratory experiences to become familiar with current energy technologies.



**WELDING TECHNOLOGY I/WELD 131 INTRODUCTION TO WELDING \*\*\***

**ELIGIBILITY: 10-12**

DURATION: Semester

PREREQUISITE: Introduction to Technology or permission of administration.

**Student must be 16 in order to be eligible for dual credit with LCCC**

STATE COURSE CODE/LOCAL COURSE CODE: 13207A001/13207G1.0012

TOOL REQUIREMENTS: Safety glasses, welding gloves, tip cleaners and tape measures.

CONTENT: 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, TIG 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.

**WELDING TECHNOLOGY II/WELD 194 SHIELDED METAL ARC WELDING \*\*\***

**ELIGIBILITY: 11-12**

DURATION: Full Year

PREREQUISITE: Welding Technology I or permission of administration

STATE COURSE CODE/LOCAL COURSE CODE: 13207A002/13207G0.5011

TOOL REQUIREMENTS: Safety glasses, welding gloves, tip cleaners and tape measures.

CONTENT: This course builds on the skills and concepts introduced in Welding Technology I 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.

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**F. MISCELLANEOUS**

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**FRESHMAN TRANSITION**

**ELIGIBILITY: 9-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 22004A 22004A000/22004G0.5011

CONTENT: Course content may include study skills and individual tutorials; career exploration or job readiness skills; communication skills; personal assessment and awareness activities; speaker presentations; and small-group seminars.

**COLLEGE AND CAREER READINESS JUNIOR SEMINAR**

**ELIGIBILITY: 11-12**

DURATION: Semester

PREREQUISITE: None

STATE COURSE CODE/LOCAL COURSE CODE: 22106A001/22106G0.5011

College and Career Readiness Seminar (Grade 11) courses offer the opportunity for students to prepare for the college and career transition. In grade 11, students will explore different components of their identity, their strengths and their aspirations. Through this seminar, students will learn more about the various postsecondary pathway opportunities that exist and connect these pathways to their career interests. Students will hone in on the institutions and / or programs that fit their academic profile, unique strengths, and values so that they understand what is needed to ultimately pursue that path. Students will also engage in regular check-ins with their teacher in order to connect on how they are doing, celebrate their successes, problem solve around challenges and create a plan for action steps.

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### III. SOUTH MACOUPIN CONSORTIUM FOR INNOVATION & TECHNOLOGY

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**THESE COURSES WILL BE TAKEN AT MT. OLIVE HIGH SCHOOL.**

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#### **EN307 (2750) FILM, CULTURE, LITERATURE**

**ELIGIBILITY: 11-12**

**DURATION:** Semester

**PREREQUISITE:** Minimum GPA 3.0 (and or teacher's recommendation)

**CONTENT:** This course is dual credit, one semester college level elective course for grades 11 & 12, earning 3 college credits through SLU. This course introduces literary study within the context and theme of Film and Culture. It introduces students to important theories and methods of literary analysis in drama and film. Through critical reading and viewing, discussion, lecture, and written analysis, students explore a diverse selection of dramatic works and films, developing a mature appreciation of their structure and of the rich significance of their language and film techniques. This course promotes an appreciation of literature as creative acts and expressions of the human search for meaning. It engages students in literary ways of knowing. Methods include close reading, close viewing, comparative textual and film analysis, and argumentative writing. This course follows the guidelines set forth by St. Louis University. The fee for this class is \$65 per credit hour for a total of \$195. This is billed directly from SLU and payment plans are available.

#### **EN303 (2250) THE STUDY OF CONFLICT AND SOCIAL JUSTICE**

**ELIGIBILITY: 11-12**

**DURATION:** Semester

**PREREQUISITE:** Minimum GPA 3.0 (and or teacher's recommendation)

**CONTENT:** This course is dual credit, one semester college level elective course for grades 11& 12, earning 3 college credits through SLU. This course is taken to satisfy the lower-division Core Literature requirement of the College of Arts and Sciences. It introduces students to important theories and methods of literary analysis. Through critical reading, discussion, lecture, and written analysis, students explore a diverse selection of imaginative works, developing a mature appreciation of their structure and of the rich significance of their language. This course promotes an appreciation of literature as creative acts and expressions of the human search for meaning. This course follows the guidelines set forth by St. Louis University. The fee for this course is \$65 per credit hour for a total of \$195. This is billed directly from SLU and payment plans are available.

#### **EN300 SPEECH I**

**ELIGIBILITY: 11-12**

**DURATION:** Semester

**PREREQUISITE:** None.

**CONTENT:** Speech is a one-semester *required* English course for grade 11. Through activities and practical application, students will develop communication skills that may be used in group discussions, speeches in front of an audience, and a variety of other speaking situations. Developing strategies to build self-confidence, conducting interviews, writing speeches, and incorporating presentation aids are among the topics covered in this class. Assessment is based on written tests, participation in class activities and discussions, and class presentations. This course follows the guidelines set forth by St. Louis University. The fee for this class is \$65 per credit hour for a total of \$195. This is billed directly from SLU and payment plans are available.

## **IA203 ADVANCED METALS I**

**ELIGIBILITY: 10-12**

**DURATION:** Semester

**PREREQUISITE:** Intro to Tech.

**CONTENT:** Advanced Metals I is a one-semester elective course for grades 10 – 12. This course will include a review of different skills, procedures, and techniques learned in previous classes. Students will learn advanced operations, and techniques on the various metal cutting and shaping machines. The importance of math as a machinist, as well as decimal equivalents, and the use of the Cartesian coordinate system for making XY movements will be stressed. We will also discuss the skills needed to enter the different metal trades. \* This course qualifies for Southwestern Illinois College tech-prep dual credit (PMT101 – 4 credit hours).

## **IA301 ADVANCED METALS II**

**ELIGIBILITY: 10-12**

**DURATION:** Semester

**PREREQUISITE:** Advanced Metals I.

**CONTENT:** Advanced Metals II is a one- semester elective course for grades 10 – 12. Students will be expected to expand their knowledge of the Cartesian coordinate system to prepare them for basic programming of CNC milling machine. Students will be instructed on writing alpha-numerical programs that will be entered into the milling machine's CPU to produce various complex projects. Machine setup, as well as fixture holding methods and devices will also be stressed. This course qualifies for Southwestern Illinois College tech-prep dual credit (PMT110 – 2.5 credit hours).

## **IA202 AUTOMOTIVE ENGINE REBUILDING**

**ELIGIBILITY: 10-12**

**DURATION:** Semester

**PREREQUISITE:** Intro to Tech.

**CONTENT:** Automotive Engine Rebuilding is a one- semester elective course for grades 11 – 12. This course is designed to give students a hands-on experience in automotive engine rebuilding. The basic theory and principles of a 4 cycle internal combustion engine will be discussed. Students will then be instructed to disassemble, study, check an engine for wear and cracks. Micrometers and dial indicators will be used to measure critical wear areas and other defects. The engine will then be reassembled, timed, started, and run to check for performance. This course qualifies for Lincoln Land Community College tech-prep dual credit.