



# CHS PLANNING GUIDE

## **2024-2025**

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## **Equal Opportunity Policy**

It is the policy of the Carlisle Community School District not to discriminate on the basis of race, color, age (for employment), sex, religion, national origin, creed, sexual orientation, gender identity, marital status (for programs), socioeconomic status (for programs) or and disability in its educational programs and its employment practices. There is a grievance procedure for processing complaints of discrimination. If you have questions or a grievance related to this policy, please contact the district Equity Coordinator:

Brandon Eighmy, Director of Human Resources and School Services  
Carlisle School Administrative Office, 430 School Street, Carlisle, IA 50047  
515-989-3589, [brandon.eighmy@carlislecsd.org](mailto:brandon.eighmy@carlislecsd.org)

## **Definition of Terms Used**

### **Credit**

One credit is earned for successfully completing a course for one semester.

### **Prerequisite**

Specific preliminary requirements must be successfully completed in order to advance to the next course of a sequence within certain disciplines. "Successfully completed" means that a student should have a passing grade of A, B, C, or D. The purpose of a prerequisite is to help ensure that students will be successful in subsequent courses. This will facilitate in the preparation of planning for desired goals in education. Exceptions may be made through a conference with the parent, student, teacher, and counselor or principal.

## **Carlisle High School Activities**

|               |                        |                       |
|---------------|------------------------|-----------------------|
| Art Club      | Drama                  | Soccer                |
| Band          | Dungeons and           | Softball              |
| Baseball      | Dragons                | Speech                |
| Basketball    | Football               | STAND-Students Taking |
| Bowling       | Golf                   | Action Not Drugs      |
| Cheerleading  | RALLY                  | Student Ambassadors   |
| Chorus        | Jazz Band              | Student Council       |
| Class Officer | Mathletes              | Swimming              |
| Color Guard   | Mock Trial             | Track                 |
| Cross Country | National Honor Society | Volleyball            |
| Dance         | Prom Committee         | Wrestling             |
| Debate        | SkillsUSA              | Yearbook              |

# **GRADUATION REQUIREMENTS**

| <b>REGULAR DIPLOMA</b>    |           | <b>47 CREDITS</b>   |
|---------------------------|-----------|---|
| <b>LANGUAGE ARTS</b>      | 8 Credits | Lang Arts 9, Lang Arts 10, Lang Arts 11, 2 LA electives, OR Composition I & II OR AP Literature & Composition |
| <b>SCIENCE</b>            | 6 Credits | Physical Science, Biology, Chemistry OR Advanced Chemistry  |
| <b>MATHEMATICS</b>        | 6 Credits | Must complete Algebra I and Geometry  |
| <b>PRACTICAL ARTS</b>     | 2 Credits | Industrial Technology, Business, Family & Consumer Science, and Art   |
| <b>SOCIAL STUDIES</b>     | 6 Credits | World History, US History, Government, elective   |
| <b>PHYSICAL EDUCATION</b> | 4 Credits | 1 every year of attendance  |
| <b>BUSINESS</b>           | 1 Credits | Financial Literacy & Employability Skills   |
| <b>ELECTIVES</b>          |           | To meet requirements  |
| <b>CPR</b>                |           | Must be completed one time in grades 8-12   |

| <b>DISTINGUISHED DIPLOMA</b> |           | <b>53 CREDITS</b>  |
|------------------------------|-----------|--|
| <b>LANGUAGE ARTS</b>         | 8 Credits | Lang Arts 9, Lang Arts 10, Lang Arts 11, Composition I & Composition II or AP Literature & Composition                           |
| <b>SCIENCE</b>               | 8 Credits | Must complete Chemistry AND AP Chemistry, Anatomy, AP Physics, or PLTW Principles of Biomedical Science, Marine Biology, Zoology |
| <b>MATHEMATICS</b>           | 8 Credits | Must complete Algebra II or higher (Technical Math does not count toward requirements)   |
| <b>PRACTICAL ARTS</b>        | 2 Credits | Industrial Technology, Business, Family & Consumer Science, and Art  |
| <b>SOCIAL STUDIES</b>        | 6 Credits | World History, US History, Government, elective  |
| <b>PHYSICAL EDUCATION</b>    | 4 Credits | 1 every year of attendance   |
| <b>BUSINESS</b>              | 1 Credits | Financial Literacy & Employability Skills  |
| <b>WORLD LANGUAGE</b>        | 4 Credits |  |
| <b>ELECTIVES</b>             |           | To meet requirements   |

9<sup>th</sup> grade will take 8 credits each semester

10<sup>th</sup> grade should take at least 7 credits each semester

11<sup>th</sup> and 12<sup>th</sup> grade will take a minimum of 6 credits each semester

## **Basic High School Plan**

| <b>Freshman Year</b>        | <b>Sophomore Year</b>                       |
|-----------------------------|---|
| 2 credits Language Arts 9   | 2 credits Language Arts 10                  |
| 2 credits Math              | 2 credits Math                              |
| 2 credits Science           | 2 credits Science                           |
| 2 credits Practical Arts    | 1 credit Physical Education                 |
| 2 credits World History     | 1-2 credit(s) Social Studies                |
| 1 credit Physical Education | 7 Elective credits                          |
| 5 Elective credits          |   |
| <b>Junior Year</b>          | <b>Senior Year</b>                          |
| 2 credits Language Arts 11  | 2 credits English                           |
| 2 credits U.S. History      | 1 credit Government                         |
| 2 credits Science           | 1 credit Social Studies                     |
| 2 credits Math              | 1 credit Physical Education                 |
| 1 credit Physical Education | 1 credit Financial Literacy & Employability |
| 3-5 Elective credits        | 7-9 Elective credits                        |

### **\*\*\*\*\*SCHEDULE CHANGES\*\*\*\*\***

**Schedule changes will only be made in the following circumstances:**

- Failure in a previous course
- Computer or clerical error
- Failure to meet a course pre-requisite
- Missed graduation requirement
- If there is space available in requested course

**\*\*ALL CHANGES MUST BE MADE BY THE THIRD DAY OF THE SEMESTER\*\***

## **School Board Policy 505.6**

Pre-High School Credits. Students who complete required high school credits in an accredited school in the United States prior to high school will have the course recorded in the high school record. The course will apply to the subject area credit requirement for a diploma, and the course will apply to the minimum total credit requirement for a diploma. It will also be calculated in the student's grade point average and count toward class rank.

## **Seal of Biliteracy**

The Seal of Biliteracy is an award given by a district to recognize students who have attained proficiency in two or more languages, one of which is English, by high school graduation." Students will be awarded the Seal based on an ACT score of 18 or above and an AP Spanish test score of 3 or above. In addition to receiving the Seal on their diploma and transcript, the students who will receive the Seal this year (based on last year's AP and ACT scores). We are pleased to offer this recognition of students' hard work and success, thus demonstrating their commitment to valuing language diversity and cultural identity. The Seal of Biliteracy will serve as a way for Carlisle High School students to highlight their proficiency in two languages as they apply for college and jobs beyond high school.

## **Early Graduation**

Carlisle High School students may graduate early provided:

- All course requirements as stated in the student handbook have been met
- A formal application signed by the student, parent, school counselor, and high school principal must be completed and presented to the high school principal by **December 1st in the year which the student wishes to graduate.**

If students elect early graduation, the following will apply:

- Students having been given the option of early graduation shall not be permitted to participate in any extracurricular activity nor will they be eligible for post-secondary option funds following the completion of the graduation requirements, but may attend formal graduation exercises at the end of the eighth semester. They may also attend all senior activities throughout the year.
- Students not wishing to attend formal graduation exercises may receive their diploma from the high school principal at the end of the eighth semester.
- All students, whether they complete requirements for graduation at the end of seven semesters or at the end of the regular school year, will be ranked together in determining class rank.
- Proof of graduation will be submitted in writing upon request by the high school principal to any institution of higher learning or prospective employer.

Parents and students are urged to discuss the possible advantages and disadvantages of early graduation. The ultimate responsibility for this educational decision will rest with the parents and the students.

## **Dropping Classes during the Semester**

- To drop a class during the semester, the student must have a conference with administrators and/or counselors.
- A student can be dropped from a class by a teacher because of grades, discipline issues, or lack of work completion.
- Students who drop courses during the semester will receive an F on their report card and transcript for the semester.
- Students must maintain a minimum of 6 credits per semester unless on an alternative schedule.

## **Online Credit Recovery (Board Policy 604.10)**

In order to take online coursework for credit recovery:

- The course is not offered at the high school
- Credit and/or unit/component recovery
- Unavoidable scheduling conflict
- Supplement to homebound instruction
- Student has been expelled, but educational services are to be continued
- The principal, with agreement from the student's teachers and parents, determines the student requires a differentiated or accelerated learning environment.

A student may work on online courses for skill development at the request of the principal, counselor, teacher, or parent.

Online course work will be scheduled into a period during the regular school day. Course work may be accessed from any computer with internet access.

*NOTE: Students who fail a required course for the semester will be re-enrolled during the next available semester.*

## **Weighted Grading Policy**

Both an unweighted 4.0 scale and a weighted 5.0 scale will be reported. Both weighted and unweighted grade averages and class ranks will be displayed on transcripts. Graduation honors will be determined by the weighted grading scale.

- Unweighted grades are awarded on an A's = 4.0, B's = 3.0, C's = 2.0, D's = 1.0, F = 0.
- Weighted grading calculation, A's = 5.0; B's = 4.0; C's = 3.0; D's = 2.0, F = 0.

Courses to be weighted include any current and future Advanced Placement (AP), and College level courses that are granted credit by an accredited college. Course weight determinations will be made and updated on an annual basis and include courses in all content areas. All college courses taken by students starting in the 2015-16 school year will receive a weighted 5.0 grading scale on transcripts.

## **Career Planning - Online Curriculum –Naviance Student**

Each year students are required to complete tasks related to career and college planning to earn .25 elective credit for graduation. Students must complete tasks in the system, Naviance™ Student to earn their credit, <https://student.naviance.com/carlsislehs>

## **Senior Year Plus (SYP)**

Students may enroll for courses at a post-secondary institution. Funds for this enrollment will be provided by the local school district. Students must meet the college entrance requirements, **be proficient in English language arts, mathematics, and science on the Iowa Statewide Assessment of Student Progress**, and meet any pre-requisites required by the college. Post-Secondary classes may be taken at the college campus or over the Internet.

One high school credit will be granted for every 3 hours of college credit earned. **Grades and credits earned will be recorded on the individual's transcript and will be included in the cumulative grade point average, class rank, and credits earned toward graduation.** For all concurrent enrollment courses, we will follow grading practices of the community college/institution.

Students must provide their own technology for any college course that is beyond what we make available for all students if a college course requires additional technology (i.e. classes that require specific software to be downloaded).

Students must provide their own transportation for on campus courses. Students interested in taking post-secondary courses should contact the counseling office to complete the necessary paper work and to discuss available courses. The biggest challenge with students enrolling in SYP courses is finding courses to fit into the daily schedule.

The deadline to register for SYP is the last day of the semester at CHS immediately preceding the semester in which students wish to enroll or the college's initial deadline (whichever comes first).



## **Advanced Placement (AP) Courses**

Carlisle High School offers 9 AP courses. These courses are weighted on a 5.0 scale.

AP Physics 1  
AP Chemistry  
AP Pre-Calculus

AP Statistics  
AP Calculus AB  
AP Calculus BC  
AP Literature and  
Composition

AP Psychology  
AP US History

## **NCAA Initial Eligibility Clearinghouse**

Athletes who plan to participate in sports at the Division I or II level must earn a qualifying high school grade point average in 16 core courses. The "NCAA Guide for the College-Bound Student-Athlete," which contains the rules and regulations can be obtained on-line at: [www.ncaaclearinghouse.net](http://www.ncaaclearinghouse.net) . All applications must be completed on-line.

### **NCAA Approved Core Courses**

| ENGLISH                | MATHEMATICS                | SOCIAL STUDIES               | NATURAL/ PHYSICAL SCIENCE    | ADDITIONAL CORE COURSES |
|------------------------|----------------------------|------------------------------|------------------------------|-------------------------|
| Composition I          | Algebra 1                  | Economics                    | Anatomy and Physiology (lab) | Spanish 1               |
| Composition II         | Algebra 2                  | AP Government                | Biology (lab)                | Spanish 2               |
| Issues in Literature   | Geometry                   | Government                   | Chemistry (lab)              | Spanish 3               |
| Creative Writing       | AP Pre-Calculus            | Psychology                   | Physical Science             | Spanish 4               |
| Language Arts 9        | AP Calculus AB             | Sociology                    | AP Physics 1 (lab)           |                         |
| Language Arts 10       | AP Calculus BC             | US History                   | AP Chemistry (lab)           |                         |
| Language Arts 11       | AP Statistics              | AP Psychology                |                              |                         |
|                        | Probability and Statistics | Ancient Western Civilization |                              |                         |
|                        | Trigonometry               | Modern Western Civilization  |                              |                         |
| Alt. Lit. Perspectives |                            | AP US History                |                              |                         |
| AP Literature & Comp   |                            | World History                |                              |                         |

# Regent Admission Index (RAI)

<http://www.regents.iowa.gov/RAI/>

Students who wish to enter Iowa State University, the University of Northern Iowa, or the College of Liberal Arts and Sciences at The University of Iowa directly from high school will be admitted based upon the following three factors: ACT composite score, high school grade point average, and number of high school courses completed in the core subject areas.

*Note: For purposes of calculating the RAI, SAT scores will be converted to ACT composite equivalents; high school GPA is expressed on a 4-point scale; and number of high school courses completed in the core subject areas is expressed in terms of years or fractions of years of study.*

A Regent Admission Index (RAI) score will be calculated for each applicant, based on the following equation:

| RAI Formula   |
|---|
| $\begin{aligned} & (3 \times \text{ACT composite score}) \\ & + (30 \times \text{Cumulative GPA}) \\ & + (5 \times \text{Number of years of high school core courses}) \\ & = \text{RAI score} \end{aligned}$ |

Applicants who achieve at least a 245 RAI score and who meet the minimum high school course requirements will automatically be admitted. Applicants who achieve less than a 245 RAI score and who meet the minimum high school course requirements may also be admitted, but their applications will be reviewed on an individual basis.

## “Typical Student Example”

$$\text{ACT score} = 24 \times 3 = 72$$

$$\text{HSGPA} = 3.5 \times 20 = 105$$

$$\text{Number of core courses completed} = 18 \times 5 = 90$$

$$\text{Admissions Index} = 267$$

## CORE COURSES AVAILABLE AT CARLISLE HIGH SCHOOL

| <b>ENGLISH</b>                    |    | <b>SOCIAL STUDIES</b> |    |
|-----------------------------------|----|-----------------------|----|
| Language Arts 9                   | 1  | World History         | 1  |
| Language Arts 10                  | 1  | US History            | 1  |
| Language Arts 11                  | 1  | American Government   | .5 |
| Sports Literature                 | .5 | AP Government         | 1  |
| Composition I                     | .5 | Economics             | .5 |
| Composition II                    | .5 | Psychology            | .5 |
| Issues in Literature              | .5 | AP Psychology         | 1  |
| Creative Writing                  | .5 | Sociology             | .5 |
| Alternative Literary Perspectives | .5 | AP US History         | 1  |
| AP Literature and Composition     | 1  |                       |    |
| Novel Writing                     |    |                       |    |
| <b>MATH</b>                       |    | <b>SCIENCE</b>        |    |
| Algebra 1                         | 1  | Physical Science      | 1  |
| Geometry                          | 1  | Biology               | 1  |
| Algebra 2                         | 1  | Anatomy & Physiology  | 1  |
| AP Pre-Calculus                   | 1  | Chemistry             | 1  |
| AP Calculus AB                    | 1  | AP Chemistry          | 1  |
| AP Calculus BC                    | 1  | AP Physics 1          | 1  |
| AP Statistics                     | 1  | Advanced Chemistry    | 1  |
| Probability & Statistics          | .5 |                       |    |
| Trigonometry                      | .5 |                       |    |
|                                   |    |                       |    |
| <b>WORLD LANGUAGE</b>             |    |                       |    |
| Spanish 1                         | 1  |                       |    |
| Spanish 2                         | 1  |                       |    |
| Spanish 3                         | 1  |                       |    |
| Spanish 4                         | 1  |                       |    |
|                                   |    |                       |    |

In addition to meeting the Regent Admission Index requirement, students must complete the minimum number of high school courses specified below for the institution to which they're applying.

# **DMACC CAREER ADVANTAGE PROGRAMS**

**You MUST complete a registration form ONLINE to be enrolled.**

## **PRE-REGISTER TODAY!**

**1. Visit**

**<https://www.dmacc.edu/careeradvantage/Pages/cadmaccclasses.aspx>**

**OR**

**Visit [www.dmacc.edu](http://www.dmacc.edu)**

**Click on “Prospective Students”**

**Click on “High School Programs”**

**Click on “Career Advantage Program”**

**Click on “Classes at DMACC”**

**2. Select the Academy location you wish to enroll**

**3. Complete the online pre-registration form**

**4. Complete application to DMACC**

**\*All academy pre-registrations must be approved by your school counselor.**

**\*Student are enrolled on a first come, first serve basis.**

**The following Career Academy Programs are offered on the DMACC ANKENY Campus:**

- **Business**
- **Computer-Aided Design Technology**
- **Computer Programming**
- **Culinary Arts**
- **Cyber Security**
- **Diesel Technology**
- **Fashion**
- **Medical Technician (EMT) (Fall OR Spring Semester)**
- **Machine Operations/Tool & Die, Diesel,**
- **Patient Access Specialist**

## **Programs Available at the Southridge Center**

### **AUTO COLLISION Times available: M–F 7:40-9:40am or 1:10-3:10pm**

This program introduces students to the highly technological industry of Auto Collision and Repair. Students will gain experience in the areas of basic shop operations and procedures, welding, painting and shop safety. Thirteen DMACC credits are available upon completion of all DMACC Career Academy course offerings.

### **AUTOMOTIVE TECHNOLOGY**

**YEAR ONE- Times available: M–F 7:40-9:40 am or 1:10-3:10 pm**

**YEAR TWO- 10:00 am-12:00 pm**

The Automotive Technology program is designed to prepare students for employment in the automotive service industry. This technological program allows students to gain experience with shop tools, automotive engines, and electricity. Eleven DMACC credits are available upon completion of all DMACC Career Academy course offerings. A second year of programming is available for returning students as well.

### **BUSINESS & MARKETING Times available: M-F 1:10-3:10pm**

This program is designed to provide a foundation of business related courses that will prepare students for entrance in multiple business related post-secondary opportunities. A total of 17 DMACC credits are available upon completion of all DMACC Career Academy course offerings.

### **CRIMINAL JUSTICE Times available: M–F 7:40-9:40am or 1:10-3:10 pm**

The Criminal Justice program introduces students to criminal law and crime scene investigation and prepares students for entry into the criminal justice field. Sixteen DMACC credits are available upon completion of all DMACC Career Academy course offerings.

### **HEALTH OCCUPATIONS Times available: M–F 7:40-9:40 am or 1:10-3:10 pm**

This yearlong program will provide students the opportunity to explore careers in health care and work toward CNA training. Thirteen DMACC credits are available upon completion of all DMACC Career Academy course offerings. Students with a criminal history may be excluded from this program. *Courses require extended clinical sessions in evenings and/or weekends.*

**HUMAN SERVICES/SOCIAL WORK Times available: M–F 1:10-3:10 pm**

This program is designed for those students who are interested in gaining a better understanding of the Human Services field and the helping professions. The program emphasizes skills needed in working with clients such as interviewing, making appropriate referrals and assisting with mental counseling. Due to the nature of this class, mature topics will be discussed. Twelve DMACC credits are available upon completion of all DMACC Career Academy course offerings.

**TEACHER ACADEMY Times available: 1:10-3:10 pm**

The Teacher Academy provides students with an opportunity to explore education-related professions and take part in real-life teaching experiences. Students will spend a total of 120 hours shadowing elementary and secondary school teachers during portions of their assigned class time. Courses fulfill Level 1 Field Experience requirements at many four year colleges. Eight DMACC credits are available upon completion of all DMACC Career Academy course offerings.

**WELDING Times available: M-F 7:40-9:40 am or 1:10-3:10pm**

This program allows students to engage in experiential learning in the area of welding. Nine DMACC credits are available upon completion of all DMACC Career Academy course offerings. DMACC offers both year 1 and year 2 of welding.

**VIRTUAL COMPUTER PROGRAMMING: (Virtual Academy)**

**Year One- Meets Virtually Monday–Friday 8:00-9:15am or 2:10-3:25pm**

**Year Two- Meets Virtually Monday–Friday 2:10-3:25pm**

This program allows students to learn basic programming concepts, solve problems using various programming languages, and gain skills for a future technology-based career. Students will earn certificates in C# Application Developer and Java Application Developer.

**Emergency Medical Technician Program- Spring Only**

This program will provide students with the fundamental knowledge and skills needed to provide lifesaving services in your community.

Students can register for any of the DMACC Programs with the online registration process on page 12.

# COURSE OFFERINGS 2023-2024

| Page | Course Title                              | Course # | Cred its | Grade         | Prerequisite    |
|------|---|----------|----------|---------------|-----------------|
| 18   | <b>FINE ARTS</b>                          |          |          |               |                 |
|      | Band                                      | 520/521  | 2        | 9, 10, 11, 12 |                 |
|      | Concert Choir                             | 525/526  | 2        | 9, 10, 11, 12 |                 |
|      | Color Guard                               | 523      | .25      | 9, 10, 11, 12 |                 |
|      | Introduction to Art                       | 550      | 1        | 9, 10, 11 12  |                 |
|      | Drawing                                   | 552      | 1        | 9, 10, 11, 12 | yes             |
|      | Ceramics                                  | 564      | 1        | 9, 10, 11, 12 | yes             |
|      | Painting                                  | 565      | 1        | 9, 10, 11, 12 | yes             |
|      | Photography                               | 5500     | 1        | 9, 10, 11, 12 | yes             |
|      | Advanced Art                              | 558/561  | 1        | 10, 11, 12    | yes             |
|      |   |          |          |               |                 |
| 22   | <b>WORLD LANGUAGE</b>                     |          |          |               |                 |
|      | Spanish I                                 | 500/501  | 2        | 9, 10, 11, 12 |                 |
|      | Spanish II                                | 502/503  | 2        | 9, 10, 11, 12 | yes             |
|      | Spanish III                               | 504/505  | 2        | 10, 11, 12    | yes             |
|      | Spanish IV                                | 508/509  | 2        | 11, 12        | yes             |
|      |   |          |          |               |                 |
| 24   | <b>LANGUAGE ARTS</b>                      |          |          |               |                 |
|      | Language Arts 9                           | 100/101  | 2        | 9             | <b>Required</b> |
|      | Language Arts 10                          | 110/111  | 2        | 10            | <b>Required</b> |
|      | Language Arts 11                          | 120/121  | 2        | 11            | <b>Required</b> |
|      | Sports Literature                         | 169      | 1        | 10, 11, 12    | yes             |
| +    | AP Literature and Composition (DM LIT101) | 170/171  | 2        | 12            | yes             |
| +    | Composition I (DM ENG105)                 | 150      | 1        | 11, 12        | yes             |
| +    | Composition II (DM ENG106)                | 151      | 1        | 11, 12        | yes             |
|      | Creative Writing                          | 162      | 1        | 10, 11, 12    |                 |
|      | Novel Writing                             | 168      |          | 10, 11, 12    |                 |



|    |                                       |         |   |               |                 |
|----|---------------------------------------|---------|---|---------------|-----------------|
|    | Issues in Contemporary Literature     | 163     | 1 | 11, 12        |                 |
|    | Communication Skills                  | 164     | 1 | 10, 11,12     |                 |
|    | Alternative Literary Perspectives     | 165     | 1 | 10, 11, 12    |                 |
|    |                                       |         |   |               |                 |
| 27 | <b>SCIENCE</b>                        |         |   |               |                 |
|    | Biology                               | 210/211 | 2 | 9, 10         | <b>Required</b> |
|    | Chemistry                             | 220/221 | 2 | 10, 11, 12    | yes             |
|    | Advanced Chemistry                    | 224/225 | 2 | 10, 11, 12    | yes             |
|    | Marine Biology                        | 214     | 1 | 10,11,12      | yes             |
|    | Zoology                               | 215     | 1 | 10,11,12      | yes             |
| +  | AP Physics 1                          | 232/233 | 2 | 11, 12        | yes             |
| +  | AP Chemistry                          | 260/261 | 2 | 11,12         | yes             |
|    | Anatomy & Physiology                  | 262/263 | 2 | 11,12         | yes             |
|    | PLTW Principles of Biomedical Science | 240/241 | 2 | 10, 11, 12    | yes             |
|    |                                       |         |   |               |                 |
| 31 | <b>MATHEMATICS</b>                    |         |   |               |                 |
|    | Algebra I                             | 310/311 | 2 | 9, 10, 11, 12 | <b>Required</b> |
|    | Geometry                              | 320/321 | 2 | 9, 10, 11, 12 | <b>Required</b> |
|    | Algebra II                            | 330/331 | 2 | 9, 10, 11, 12 | yes             |
|    | Pre-AP Algebra II                     | 336/337 | 2 | 9, 10, 11, 12 | yes             |
|    | Technical Math                        | 332/333 | 2 | 11,12         | yes             |
|    | AP Pre-Calculus                       | 340/341 | 2 | 10, 11, 12    | yes             |
| +  | AP Calculus AB (DM MAT211)            | 350/351 | 2 | 11, 12        | yes             |
| +  | AP Calculus BC (DM MAT217)            | 352/352 | 2 | 12            | yes             |
| +  | AP Statistics (DM MAT157)             | 372/373 | 2 | 10, 11, 12    | yes             |
|    | Probability & Statistics              | 370     | 1 | 10, 11, 12    | yes             |
|    | Trigonometry                          | 374     | 1 | 10, 11, 12    | yes             |
|    |                                       |         |   |               |                 |
| 36 | <b>SOCIAL STUDIES</b>                 |         |   |               |                 |
|    | World History                         | 400/401 | 2 | 9/10          | <b>Required</b> |

|    |  |           |     |               |                 |
|----|--|-----------|-----|---------------|-----------------|
| +  | Ancient Western Civilization (DM HIS110) | 402       | 1   | 9,10, 11,12   |                 |
| +  | Modern Western Civilization (DM HIS111)  | 403       | 1   | 9,10, 11,12   |                 |
|    | U.S. History                             | 410/411   | 2   | 11            | <b>Required</b> |
| +  | AP US History (DM HIS151, HIS152)        | 412/413   | 2   | 11, 12        |                 |
|    | American Government                      | 420       | 1   | 12            | <b>Required</b> |
|    | Psychology                               | 461       | 1   | 10, 11, 12    |                 |
| +  | AP Psychology                            | 462/463   | 2   | 10,11,12      | yes             |
|    | Economics                                | 464       | 1   | 10, 11, 12    |                 |
|    | Sociology                                | 465       | 1   | 10, 11,12     |                 |
|    |  |           |     |               |                 |
| 39 | <b>INDUSTRIAL TECHNOLOGY</b>             |           |     |               |                 |
|    | Introduction to Construction             | 530       | 1   | 9, 10, 11, 12 |                 |
|    | Intermediate Construction                | 531       | 1   | 10, 11, 12    | yes             |
|    | Construction Theory                      | 534       | 1   | 10, 11, 12    | yes             |
| +  | Building Trades                          | 537/538   | 4   | 11, 12        | yes             |
|    | Introduction to Welding                  | 549       | 1   | 10, 11, 12    | yes             |
|    | CADD I                                   | 540       | 1   | 9, 10, 11, 12 |                 |
|    | Enterprise: Engineering & Manufacturing  | 5400/5401 | 1/2 | 11, 12        | yes             |
|    |  |           |     |               |                 |
| 42 | <b>FAMILY &amp; CONSUMER SCIENCES</b>    |           |     |               |                 |
|    | Introduction to FCS                      | 580       | 1   | 9             |                 |
|    | Food & Nutrition                         | 581       | 1   | 10, 11, 12    |                 |
|    | Bakery                                   | 589       | 1   | 10, 11, 12    | yes             |
|    | Culinary Arts                            | 582       | 1   | 10, 11, 12    | yes             |
|    | Child Development 1                      | 583       | 1   | 10, 11, 12    |                 |
|    | Child Development 2                      | 584       | 1   | 10, 11, 12    | yes             |
|    | Fashion Analysis & Design                | 588       | 1   | 10, 11, 12    |                 |
|    | Advanced Fashion                         | 585       | 1   | 10,11,12      | yes             |
|    | Enterprise: Food Production              | 5800/5801 | 1/2 | 11, 12        | yes             |

|    |   |         |     |               |                 |
|----|---|---------|-----|---------------|-----------------|
| 46 | <b>BUSINESS EDUCATION</b>                 |         |     |               |                 |
|    | Microsoft Applications I                  | 601     | 1   | 9, 10, 11, 12 |                 |
|    | Introduction to Business                  | 603     | 1   | 9, 10         |                 |
|    | Business Communications                   | 607     | 1   | 10, 11, 12    |                 |
|    | Graphic Technology                        | 606     | 1   | 9, 10, 11, 12 |                 |
|    | Business Law                              | 610     | 1   | 10, 11, 12    |                 |
|    | Entrepreneurship                          | 611     | 1   | 10, 11, 12    |                 |
|    | Marketing                                 | 620     | 1   | 10, 11, 12    |                 |
|    | Financial Literacy & Employability Skills | 623     | 1   | 11, 12        | <b>Required</b> |
| +  | WBL – Classroom (DM ADM221)               | 624     | 1   | 11, 12        | yes             |
| +  | WBL - Work Experience (DM ADM936)         | 625     | 2/2 | 12            | yes             |
|    |   |         |     |               |                 |
| 51 | <b>COMPUTER SCIENCE</b>                   |         |     |               |                 |
|    | Computer Science Principles               | 630     | 1   | 9, 10, 11, 12 |                 |
|    |   |         |     |               |                 |
| 52 | <b>PHYSICAL EDUCATION</b>                 |         |     |               |                 |
|    | PE- Activities for a Lifetime             | 595     | 1   | 9,10, 11, 12  |                 |
|    | PE-Strength and Conditioning              | 592     | 1   | 11, 12        |                 |
|    | Athletic Weightlifting                    | 593/594 | 1   | 9, 10, 11, 12 | yes             |
|    |   |         |     |               |                 |
| 53 | <b>ELECTIVES</b>                          |         |     |               |                 |
|    | Health – The Social/Emotional You         | 643     | 1   | 9, 10, 11, 12 |                 |
|    | Health – The Physical You                 | 644     | 1   | 9, 10, 11, 12 |                 |
|    |   |         |     |               |                 |

**\*\*A “+” indicates a 5.0 weighted course\*\***

# **FINE ARTS**

*Graduation Requirements: 2 credits of practical arts (family & consumer science, business, art courses, or industrial technology).*

## **High School Band**

Grades: 9-12

Credits: 2

Offered: All year course

*Prerequisite: Middle School Band or Instructor Approval*

Band is a “performance-based” class for students who enjoy instrumental music. Emphasis is placed on individual improvement as well as ensemble achievement. All students in band are required to rehearse and perform with the marching and concert band. The jazz and pep bands are open to any student in band. There are also other individual and group opportunities available. Grading is based on attendance and effort in rehearsals, lessons, and performances as well as outcomes on performance tests and the semester exam. High school band meets every day.

## **Concert Choir**

Grades: 9-12

Credits: 2

Offered: All year course

Concert Choir is a “performance-based” class for students who enjoy vocal music. Students will learn the basic skills involved in choral singing, sing a wide variety of music, and learn to achieve a common goal. Activities that are **required** as a member of the Carlisle Choir include **all** concerts, **Fall Musical**, every **even** year, **solo-ensemble contest** held at Carlisle, and **Large Group Contest** in May. Students may participate in the following activities, but they are not required: singing the National Anthem, OPUS (freshmen), All-State, Raccoon River Conference Vocal Festival and any other vocal opportunities that may be available.

# **ART**

## **Introduction to Art**

Grade: 9-12

Credits: 1

Offered: Both Semesters

Intro to Art is an introductory art course designed for any student grades 9-12, who has had no previous experience in a high school art course. The course is designed to provide students with the foundations of artistic expression. Students will learn how to manipulate the design elements and principles of art, as well as a variety of media to communicate ideas creatively. Intro to Art applies cooperative and independent, as well as differential learning strategies in its approach to art making, art history, criticism and aesthetics. This course will provide students with the foundation skills needed to further study and practice upon a passing grade to future advanced art courses.

## **Painting**

Grade: 9-12

Credits: 1

Offered: Both Semesters

*Prerequisite: Introduction to Art*

This is an intermediate course addressing matters in the areas of still-life, portrait, landscape, and abstract paintings using acrylics, watercolors and water soluble oil paints. Students will focus on developing content and personal expression. Students will further develop and expand their skills needed for creating successful and meaningful paintings through the creation of multiple artworks. Composition, observation, and rendering skills will be emphasized as students explore a range of painting media. The structure of the class will consist of guided exercises, class projects, group discussion, and critiques.

## **Ceramics**

Grade: 9-12

Credits: 1

Offered: Both Semesters

*Prerequisite: Introduction to Art*

Ceramics Students will design and construct hand-built pottery using pinch, coil, and slab methods of construction. They will use glazing and other decorating techniques to complete successful designs in clay.

## **Photography**

Grade: 9-12

Credits: 1

Offered: Both Semesters

This is a studio course that deals with the development and creation of photographs in both Color and Black and White. Students will work with the development of a variety of photographic ideas and techniques as well as photographic manipulations. No prior knowledge or experience in art is necessary! A good introductory class to experience a variety of artistic fundamentals.

## **Drawing**

*Prerequisite: Introduction to Art*

Grade: 9-12

Credits: 1

Offered: Both Semesters

*Prerequisite: Introduction to Art*

This is an intermediate drawing course that explores materials, composition, and expressive techniques in drawing. The elements and principles of design are utilized in addition to multiple rendering/compositional practices to impress an understanding of successful art. Students will further develop and expand their skills needed for creating successful and meaningful drawings through the creation of multiple artworks. Composition, observation, and rendering skills will be emphasized as students explore a range of drawing media. The structure of the class will consist of guided exercises, class projects, group discussion, and critiques.

## **Advanced Art**

Grade: 10-12

Credits: 1

Offered: Both Semesters

*Prerequisite: 4 art courses*

This course is designed for students who show strong interest and talent in visual art. Students are expected to present their own personal point of view while creating unique works for portfolios and exhibitions. Students are required to maintain a working sketchbook/journal in addition to their class work. Students will enter their work in competitions and exhibitions. Individualized studies of special interest are required. This course operates like an independent study so students will need to have the ability to work independently through projects. **Advanced art can be taken multiple times for credit.**

# **WORLD LANGUAGE**

*Graduation Requirements: None (2 years needed for the distinguished diploma)*

**PLEASE NOTE:** World language increases your score on the Regent Admission Index for Iowa Regent Universities.

## **Spanish I** (Offered virtually only)

Credits: 2

Offered: All year course

This course is an introduction to the Spanish language and culture. Conversational and grammatical formations are supplemented by both listening and writing activities. There is an emphasis on sentence structure, useful vocabulary, and acquiring proper pronunciation skills. Students are required to take notes in class throughout the school year. The student will participate in individual speaking activities that allow for oral practice in the Spanish language, and be expected to learn and retain explanations given in class. An awareness of, and appreciation for, cultural differences will be instilled.

## **Spanish II**

Credits: 2

Offered: All year course

*Prerequisite:* Full year of Spanish I (It is strongly recommended students receive a B- or better in Spanish 1 to continue on to Spanish 2)

This course will continue developing oral, listening, reading, and writing skills. A greater understanding of the various aspects of conversational construction will be stressed. Individual and group activities will be used in comprehension, speaking, and writing. Cultural differences continue to be presented to promote cultural awareness. Daily work provides practice and aids in mastering the language. The students' ability to use the target language in speaking and in writing will be a part of the evaluative process. Students are expected to initiate conversations in Spanish with the instructor.

### **Spanish III**

Credits: 2

Offered: All year course

*Prerequisite:* Full year of Spanish II (It is strongly recommended that students earn a B or above in Spanish II)

More emphasis is placed on students using Spanish in conversations. This course will stress further oral and written competency, increased student initiative in recognition and reading skills. Students will study various elements of Hispanic culture. Students will be evaluated on their ability to use the written and spoken language.

### **Spanish IV**

Credits: 2

Offered: All year course

*Prerequisite:* Full year of Spanish III (It is strongly recommended that students earn an 80% or above)

Spanish 4 focuses on building students' ability to use both written and spoken Spanish, while refining grammar and accuracy. The course is taught almost exclusively in Spanish and students are expected to use as much Spanish as possible in class. Students will study cultural practices, products and perspectives from throughout the Spanish-speaking world and will compare and contrast them to their home culture.



# LANGUAGE ARTS

*Graduation requirements: Language Arts 9, Language Arts 10, Language Arts 11, Composition I&II OR 2 Electives.*

*\*Denotes the course is weighted on a 5.0 GPA scale\**

## Language Arts 9-11

Grade level Each Language Arts unit will introduce academic vocabulary, key ideas and details, language and writer's craft items, multiple writing prompts, and access a variety of texts. Instructors will focus instruction on learning targets that connect to Advanced Placement concepts and citation of textual evidence, implement a variety of learning strategies with guided reflection on the learning process, and assess student learning multiple times per unit. The curriculum used grades 6-12 will offer students multiple chances to learn language arts concepts for mastery.

### \*AP Literature and Composition

Grade: 12                      Credits: 2                      Offered: All year course

*Prerequisite: B- or higher in previous LA courses*

Students who choose AP Literature & Composition should be interested in studying literature of various periods and genres and using this wide reading knowledge in discussions and written analysis. As they read, students consider a work's structure, style and themes, as well as much smaller scale elements such as the use of figurative language, imagery, symbolism, and tone. Students should expect to read several novels, short stories, plays, and poetry. **Students can earn 3 DMACC credits for LIT101 upon successful completion of this course.**

### Issues in Contemporary Literature

Grades: 11-12                      Credits: 1                      Offered: One Semester

This course will address issues of contemporary interest contained in literature written within the past 50 years. The class will involve reading various forms of literature, viewing video selections, researching various topics in print and electronic media, and participating in class discussion, individual presentations, and group presentations. The grade for the course will be based on class participation, completion of projects, completion of assigned reading, and tests and quizzes.

### **\*Composition I**

Grade: 11, 12

Credits: 1

Offered: Fall Semester

*Prerequisite:* 18 or higher on ACT English, proficient on all core ISASPs

*Recommended:* B- or higher in previous LA courses

Composition I will introduce students to the college-level writing process through the construction and revision of a series of expository and persuasive essays. Students may also produce other writing appropriate to the academic and working world. Through exposure to a variety of college-level readings, the students will build critical reading skills, and students will be expected to respond to assigned readings in a variety of ways. The course introduces library and computer-based research strategies. Students will write and revise at least 4 essays and produce a minimum of 20 pages. **Students can earn 3 DMACC credits for ENG 105 upon successful completion of this course.**

### **\*Composition II**

Grade: 11, 12

Credits: 1

Offered: Spring Semester

*Prerequisite:* C- or higher in Composition I

Composition II is a continuation of Composition I. Students will analyze, synthesize, and evaluate texts. Effective academic research is also emphasized. Assignments may include expository and persuasive writing appropriate to academic and professional contexts. Students will write and revise three or more essays, including a research-based argument, and produce a minimum of 20 pages of prose. Academic integrity is a key expectation of this course. **Students can earn 3 DMACC credits for ENG 106 upon successful completion of this course.**

### **Creative Writing**

Grades: 10-12

Credits: 1

Offered: One Semester

This is a composition class designed to give students the opportunity to discover, explore, and attempt different formats of short form writing. Students will write personal essays, short stories, various poems, and vignettes. Students will have the opportunity to receive and provide feedback in a writing lab format.

### **Novel Writing**

Grades: 10-12

Credits: 1

Offered: One Semester

This is a composition class designed to give students the opportunity to work through the entire writing process from idea to publication. Students will have the opportunity to receive and provide feedback in a writing lab format.

### **Sports Literature**

Grades: 10-12

Credits: 1

Offered: One Semester

Sports Literature is an elective course that involves continuous practice in the skills of reading and writing. Sports Literature will be guided by reading thought-provoking texts including but not limited to, contemporary novels, columnists, fiction, nonfiction, and other media. Students will write for an extended period of time. Students will also write argumentative, comparison/contrast, informative and narrative papers.

### **Communication Skills**

Grades: 01- 12

Credits: 1

Offered: One Semester

This course will emphasize good life-long communication skills and help give students the confidence to present in front of an audience. Students will learn the difference between verbal and nonverbal speech and will write and present a variety of speeches/presentations for specific audiences.

### **Alternative Literary Perspectives**

Grades 10-12

Credits: 1

Offered: Spring Semester

This class will focus on applying critical analysis to genres beyond the common novel. Students will examine comic books/graphic novels, tabletop/video games, and social media/podcasting in order to identify the important roles they play in modern society.

# **SCIENCE**

*Graduation Requirements: 6 credits*

*\*Denotes the course is weighted on a 5.0 GPA scale\**

## **Suggested sequence for science courses**

| 9 <sup>th</sup> grade | 10 <sup>th</sup> grade | 11 <sup>th</sup> grade              | 12 <sup>th</sup> grade              |
|-----------------------|------------------------|-------------------------------------|-------------------------------------|
| Biology               | Chemistry              | AP Physics,<br>Anatomy or<br>Biomed | Could choose to<br>take an elective |
| Biology               | Advanced<br>Chemistry  | AP Chemistry                        | AP Physics                          |

## **Biology**

Grade: 9, 10 Credits: 2 Offered: All year course

*Prerequisite:* Physical Science

Biology deals with living organisms and how they function. This involves studying topics such as ecology, genetics, and biotechnology. The course utilizes laboratory experiences so each student has the opportunity to explore concepts while using the scientific method of inquiry. Instructional methods included in biology are lab activities, discussion, lecture, and group collaboration.

## **Chemistry**

Grades: 10-12 Credits: 2 Offered: All year course

*Prerequisite:* Algebra I and Biology

Chemistry is the study of matter and the changes it undergoes. First semester chemistry emphasizes how to describe and measure matter, atomic structure, and bonding. Second semester includes units on reactions, quantifying chemistry, states of matter, and equilibrium. Students will participate in lab activities that encourage them to explore concepts prior to discussion and apply what they have learned in a new manner.

## **Advanced Chemistry**

Grades: 10-12

Credits: 2

Offered: All year course

*Prerequisite:* Algebra I and Biology

Students who take accelerated chemistry are interested in quantitatively and conceptually exploring the interactions between matter and energy to a greater extent than what is provided in chemistry. The class will allow students to be more prepared for AP chemistry or other college-level chemistry curriculum, but they are not required to take AP chemistry. The class will cover an accelerated version of the chemistry curriculum and wrap up the year with a transition into units of study that cover states of matter, thermodynamic basics, kinetics, and equilibrium that will represent introductory college-level curriculum and rigor.

## **Marine Biology**

Grades: 10-12

Credits: 1

Offered: Semester

*Prerequisite:* Biology

Marine Biology introduces students to the study of life in ocean environments. During this semester-long course, students will learn about the diverse groups of marine organisms, variety of ecosystems and habitats, and current events in today's oceans, such as: overfishing, ocean acidification, coral bleaching, restoration and marine protected areas. Students will also gain an understanding of benefits and types of coral reefs as well as the characteristics of organisms in the deep sea. Through labs, projects, and direct instruction, students will learn about the diversity of ocean environments and how the creatures that live there are adapted to best survive.

## **Zoology**

Grades: 10-12

Credits: 1

Offered: Semester

*Prerequisite:* Biology

Zoology is the study of the behavior, anatomy, physiology, and classification of animals. This is a semester-long course that will introduce students to the diverse animal kingdom, emphasizing the systematics and morphology of vertebrates and invertebrates. We will be covering topics such as: animal behavior, entomology (insects), ornithology (birds), mammalogy (mammals) and herpetology (amphibians). Instructional methods will include experimentation, several laboratory dissections, direct instruction, and individual research. Students will be making detailed examinations of selected animal phyla

### **\*AP Physics 1**

Grades: 11-12

Credits: 2

Offered: All year course

*Prerequisite:* Chemistry and Algebra 2

This course the equivalent to a first-semester college course in algebra-based physics. The course covers Newtonian mechanics (including rotational dynamics and angular momentum); work, energy, mechanical waves and sound. It will also introduce electric circuits. This class has a very strong mathematical emphasis. In addition, students are expected to complete web-based lessons and labs independently once per week. **This class prepares students for the AP exam and those scoring a 3 or better may receive college credit.**

### **Anatomy & Physiology**

Grades: 11-12

Credits: 2

Offered: All year course

*Prerequisite/Co-requisite:* Biology and Chemistry

Anatomy and physiology is the study of the human body and how it works. A major focus of this course is systemic anatomy where students examine the various systems of the body. Emphasis is on the following systems: integumentary, skeletal, muscular, digestive, and circulatory. During this time, other concepts such as organic chemistry, histology, and biotechnology are utilized. Instructional methods include laboratory activities, independent study, discussion, and lecture. This course concludes with a complete dissection of the fetal pig.

### **\*AP Chemistry**

Grades: 11-12

Credits: 2

Offered: All year course

*Prerequisite:* Chemistry

In this course, students will take an extended look at some of the concepts from chemistry as well as brand new ideas. This class will help to better prepare the students for later chemistry courses in terms of content and additional lab experiences, procedures, and technology. The main topics of this course will include chemical reactions, quantum theory, bonding, thermochemistry, gases, liquids and solids, solutions and solubility, kinetics, equilibrium, acid/base equilibrium and equilibrium and solubility. This course is recommended for any student considering a medical, engineering, or any other science related career path. **This class prepares students for the AP exam and those scoring a 3 or better may receive college credit. This course is an elective and cannot be used as a substitute for an Iowa Core course.**

## **\*Principles of Biomedical Science**

Grades: 11-12

Credits: 2

Offered: All year course

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*Prerequisite:* Biology

This introductory biomedical science course allows students to investigate concepts of biology and medicine as they explore health conditions such as heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. Students will determine the factors that led to the death of a fictional woman as they piece together evidence found in her medical history and her autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged the woman's life and demonstrate how the development of disease is related to changes in human body systems. The activities and projects introduce students to human physiology, biology, medicine, and research processes and allow students to design experiments to solve problems. Key biological concepts including maintenance of homeostasis in the body, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum. **This course is an elective and cannot be used as a substitute for an Iowa Core course.** Students may take an end of course assessment that can earn them college credit.

# **MATHEMATICS**

*Graduation requirements: 6 credits (All students are required to complete Algebra I, Geometry, and Algebra II or Technical Math to graduate)*

*\*Denotes the course is weighted on a 5.0 GPA scale\**

## **Suggested sequence for math courses**

|  | 9 <sup>th</sup> grade | 10 <sup>th</sup> grade | 11 <sup>th</sup> grade | 12 <sup>th</sup> grade   |
|--|-----------------------|------------------------|------------------------|--|
| <b><u>4 Year University Science, Math, Engineering/ Medicine</u></b> | Geometry              | Pre-AP Algebra II      | AP Pre-Calculus        | AP Calculus<br>OR<br>AP Statistics   |
| <b><u>4 Year University Social Sciences/2 Year CC</u></b>            | Algebra I             | Geometry               | Algebra II             | AP Pre-Calculus<br>or Probability<br>and Statistics<br>and<br>Trigonometry |
| <b><u>Career and Technical Focus</u></b>                             | Algebra I             | Geometry               | Technical Math         | Algebra II   |

**\*Electives**

**--Prob & Stats (1 credit)**

**--Trigonometry (1 credit)**

**--AP Statistics (2 credits)**



### **Algebra I (Required)**

Grades: 9-12

Credits: 2

Offered: All year course

This course deals with the following mathematical concepts: Solving algebraic equations and inequalities, simplifying expressions, polynomial operations, graphing linear equations, problem solving, data analysis and probability among other topics. This course is designed to help students improve their ability and confidence toward math and prepare students for successful completion of Geometry and/or Algebra II.

### **Geometry (Required)**

Grades: 9-12

Credits: 2

Offered: All year course

*Prerequisite:* Algebra I

This course is designed to emphasize the study of properties and applications of common geometric figures in two and three dimensions. It includes the study of transformations and right triangle trigonometry. Inductive and deductive reasoning skills are used in problem solving situations and real-world connections are made. It also emphasizes writing formal proofs to justify properties of geometric figures.

### **Algebra II**

Grades: 9-12

Credits: 2

Offered: All year course

*Prerequisite/Co-requisite:* Successful completion or concurrent enrollment (with teacher approval) in Geometry

Algebra II starts with a continuation of concepts studied in Algebra I. Students will be challenged by new concepts that require graphing skills, function analysis, and solving higher order equations. Students are introduced to parent functions and transformations, the complex number system, and rational expressions.

## **Pre-AP Algebra II**

Grades 9-12

Credits: 2

Offered: All year course

*Prerequisite/Co-requisite:* Successful completion or concurrent enrollment (with teacher approval) in Geometry

Algebra II starts with a continuation of concepts studied in Algebra 1. Students will be challenged by new concepts that require graphing skills, function analysis, and solving higher order equations. Students are introduced to parent functions and transformations, the complex number system, and rational expressions.

This course is intended for students planning to continue their math education through AP coursework and interested in STEM careers. Compared to the Algebra II course, this course will move at a faster pace and emphasize skills needed for AP courses (ex. writing).

## **\*Technical Math**

Grades 11-12

Credits: 2

Offered: All year course

*Prerequisite:* Geometry

*Co-requisite (second semester):* CTE Course

Technical math is a course in elementary mathematical skills for technicians. Topics covered include fundamental operations with whole numbers, fractions, decimals and signed numbers; percent; geometric figures and basic constructions; area and volume formulas; English/Metric systems; measurements; and the interpretation of graphs and charts. At the end of this course, students will complete a capstone project in conjunction with a CTE course. This course is intended for students planning careers in the skilled trades or other fields requiring an AAS degree. **Students earn 3 DMACC credits for MAT 772 upon successful completion of this course**

### **\*AP Pre-Calculus**

Grades 10-12

Credits: 2

Offered: All year course

*Prerequisite:* Algebra II

This course is designed to provide a thorough background for entry into a calculus course. Topics will include Polynomial & Rational Functions, Exponential & Logarithmic Functions, Trigonometric & Polar Functions, and Functions involving Parameters, Vectors, and Matrices. Successful completion of this course will prepare students to take the AP Pre-Calculus exam for college credit.

### **Probability and Statistics**

Grades: 10-12

Credits: 1

Offered: Semester course

*Prerequisite:* Algebra II

Statistics is the science of collecting, analyzing, and interpreting data while probability is determining how likely something is to occur. Together, probability and statistics is one of the most applicable branches of mathematics used (and often highly misused) by the general public. Upon completing the class, students will understand the basic concepts of probability and statistics including exploring data through patterns and graphs, sampling and experimentation with planning and conducting studies, exploring randomness with probability and simulation, and statistical inference. The course is also a good, but not required, course introducing several topics in AP Statistics.

### **Trigonometry**

Grades: 10-12

Credits: 1

Offered: Semester course

*Prerequisite:* Algebra II

The course explores in-depth applications of trigonometry in numerous chosen fields of study. Students will become more aware of the uses of trigonometry as they relate to the field of astronomy, surveying, navigation, construction, geography, physics, engineering, chemistry, and calculus. This course may be taken with any post Algebra II course.

### **\*AP Calculus AB**

Grade: 11-12

Credits: 2

Offered: All year course

*Prerequisite:* Pre-calculus

This course will result in equivalent skills to a traditional collegiate Calculus I course. Topics covered will be limits of functions, the derivative, applications of derivatives, rates of change, definite and indefinite integrals, the fundamental theorem of calculus, and applications of integrals. Calculus is strongly recommended for students pursuing a degree at a 4-year college, especially if pursuing the sciences. Successful completion of this course will prepare the student to take the AP Calculus AB Exam for college credit.

**Students earn 5 DMACC credits for Intermediate MAT 211 upon successful completion of this course.**

### **\*AP Statistics**

Grade: 10-12

Credits: 2

Offered: All year course

*Prerequisite:* C+ or higher in Algebra II

AP Statistics is not a traditional math class. Statistics is the science of collecting, analyzing, interpreting, and drawing conclusions about data while probability is determining how likely something is to occur. Together, probability and statistics is one of the most applicable branches of mathematics used (and often highly misused) by the general public. This course will result in the equivalent skills to a collegiate introduction to statistics course. Topics covered will be descriptive statistics, designing studies, probability, and inferential statistics. **Successful completion of this course will prepare the student to take the AP Statistics Exam for college credit. Students earn 3 DMACC credits for MAT156 upon successful completion of this course.**

# **SOCIAL STUDIES**

*Graduation Requirements: 6 credits (World History, US History OR AP US History, Government, elective)*

*\*Denotes the course is weighted on a 5.0 GPA scale\**

## **Suggested Pathway**

|   | 9th grade  | 10th grade | 11th grade                  | 12th grade          |
|---|--|------------|-----------------------------|---------------------|
| All students                                  | World History  | Elective   | US History or AP US History | American Government |
| Elective Courses (one needed in grades 10-12) | Psychology<br>Sociology<br>Economics<br>AP Psychology<br>Ancient Western Civilization<br>Modern Western Civilization |            |                             |                     |

## **World History (Required)**

Grades: 9

Credits: 2

Offered: All year course

World history provides coverage of the major segments of the history of our world, including Western and non-Western history from The Age of Exploration (1400s) to Modern Times. This course will help students develop an understanding of the events of the past in order to fully comprehend what is happening in the present. We will compare and contrast past cultures and civilizations and identify how these civilizations have contributed to modern cultures. This course will have a focus on complex reading and writing skills associated with social studies content.

## **\*Ancient Western Civilization**

Grades: 9-12

Credits: 1

Offered: One Semester

The student will learn about first civilizations, ancient Greeks and Romans, diverse religions, medieval society, the Renaissance and Reformation, discovery of the New World, scientific developments, and monarchies Europe.

**Students earn 3 DMACC credits for HIS110 upon successful completion of this course.**

### **\*Modern Western Civilization**

Grades: 9-12

Credits: 1

Offered: One Semester

This course is a survey of the evolution of Western Civilization from the rise of the nation-state to the present. Major topics include the French Revolution and the Age of Napoleon; 19th century developments such as liberalism, the Industrial Revolution, socialism, nationalism, and imperialism; and the great wars and upheavals of the 20th and 21st centuries.

**Students earn 3 DMACC credits for HIS111 upon successful completion of this course.**

### **United States History (Required)**

Grade: 11

Credits: 2

Offered: All year course

This course will first briefly review United States political, economic, and social events from the Reconstruction Period (post-Civil War), then continue up to the present day. The course will help prepare students for the future by instilling an appreciation for the development of American institutions and ways of life. There will be an emphasis on discovering the relevancy between the lives of our ancestors and our own present lives and conditions. This course will have a focus on complex reading and writing skills associated with social studies content.

**\*AP US History** (meets US History requirement)

Grade: 11

Credits: 2

Offered: All year course

The AP U.S. History course is designed to provide students with the critical analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. Students should learn to assess historical materials—their relevance to a given interpretive problem, reliability, and importance—and to weigh the evidence and interpretations presented in historical scholarship. This course should develop the skills necessary to arrive at conclusions on the basis of an informed judgment and to present reasons and evidence clearly and persuasively in essay format. The course will include extensive chronological coverage and readings on a broad variety of topics in such special fields as economic history, cultural and intellectual history, and social history, in addition to political–constitutional and diplomatic history. **Students can earn 4 DMACC credits each semester for HIS151 and HIS152 upon successful completion of this course.**

## **American Government (Required)**

Grade: 12

Credits: 1

Offered: Both semesters

The purpose of this course is to ensure that students gain a thorough understanding of the fundamental principles of American government. Students will study federal, state, and local levels of American government, as well as the fundamentals of the U.S. Constitution. Government is a required course for graduation. This course will have a focus on complex reading and writing skills associated with social studies content.

## **Psychology**

Grades: 10-12

Credits: 1

Offered: One Semester

Psychology presents an introduction to the study of human behavior. Topics covered will include experimental methods, classical and operant conditioning, biology of behavior, perception, motivation, altered states, personality, developmental psychology, and abnormal psychology. Students are expected to cover and test over large quantities of reading material. The course is recommended for those interested in the social sciences and those pursuing a college study of humanities. This course will have a focus on complex reading and writing skills associated with social studies content.

## **\*AP Psychology**

Grades: 10-12

Credits: 2

Offered: All year course

The purpose of the Advanced Placement course in Psychology is to introduce students to the systematic and scientific study of the behavioral and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice. **Upon completion of the course, students will have the opportunity to take the Advanced Placement Psychology Exam, affording college credit for successful scores on the exam.**

## **Economics**

Grades: 10-12

Credits: 1

Offered: One Semester

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This course will cover basic macro and micro economic concepts and theories. Some of these theories include supply and demand, monetary policy, fiscal policy, price determination, scarcity, and market behavior. The student will study stock investments.

## **Sociology**

Grades: 10-12

Credits: 1

Offered: One Semester

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This course will attempt to provide an understanding of the origin, development, organization, and functioning of human society. Students will study the processes and patterns of individual and group interaction, the forms of organization of social groups, and group influences on individual behavior. They will also examine the individual's specific role in society, some of the past and present social problems, and how to cope with these problems today. This course will have a focus on complex reading and writing skills associated with social studies content.



# **INDUSTRIAL TECHNOLOGY**

*Graduation Requirements:* 2 credits of practical arts (art, family & consumer science, business, or industrial technology).

**All courses are open to ALL students.**

Students who take a sequence of courses in a Career and Technical area will be better prepared for a specific field at the community college. Students earn college credits for the concurrent classes. Students interested in Construction Trades or Drafting and Design should consider the following courses:

| <b>Construction Trades</b>              |                               |                           |                   |
|---|-------------------------------|---------------------------|-------------------|
| Intro to Construction                   | Intermediate Construction     | Construction Theory       | Building Trades   |
|   |                               |                           |                   |
| <b>DMACC Credit for Building Trades</b> | Materials/Construction Theory | Care/Use Hand/Power Tools | Blueprint Reading |

## **Introduction to Construction**

Grade: 9-12

Credits: 1

Offered: Each Semester

This course will introduce students to the study, use and care of various hand tools and basic power tools. Students will be required to complete two projects designated by instructor.

## **Intermediate Construction**

Grades: 10-12

Credits: 1

Offered: Each Semester

*Prerequisite:* Introduction to Construction

This course will build on and further student's knowledge of woodworking. Students will begin to research, design and construct projects for the semester.

## **Construction Theory**

Grades: 10-12

Credits: 1

Offered Each semester

*Prerequisite:* Introduction to Construction & Intermediate Construction

Students will learn about and take part in various activities of the construction industry with the emphasis on concrete, framing, electrical, plumbing, drywall, carpentry, and roofing. Students will also spend a large amount of time learning about metalworking/ welding. Students will be asked to design/ build a small metalworking/ welding project for themselves. Students may need to purchase additional materials for individual projects. Next Step - After completing Construction Technology students are prepared to take Building Trades.

***Next Step*** - After completing Construction Theory students are prepared to take Building Trades

## **\*Building Trades**

Grade: 11-12

Credits: 4

Offered: Year-long course

***\*\*This course is weighted on a 5.0 GPA scale\*\****

**Prerequisite:** Construction Technology, Instructor Approval

Construction Technology, Instructor Approval. A year-long construction course designed to give students advanced training and experience in residential construction. Students will be involved in constructing a home. Areas covered include: planning, financing, excavation, concrete, framing, electrical, plumbing, sheetrock, trim and landscaping. Students must meet all requirements and apply to be considered for acceptance into the class. Students must provide their own transportation and basic hand tools. Building Trades meets in a two-period block. Seniors will have priority.

**Students will earn 7 DMACC Credits for completing Building Trades.**

## **Introduction to Welding**

Grades: 10-12

Credits: 1

Offered: One semester

*Prerequisite: Introduction to Construction*

Introduction to Welding will prepare students for careers in the welding/metalworking field. Students will learn three different types of welding: oxy-acetylene welding, traditional arc (Stick) welding, and welding with gas metal arc welding (Mig). Students will understand basic shop safety, welding techniques, and will be introduced to career opportunities within the field.

## **CADD I (Computer-Aided Drafting & Design)**

Grades: 9-12

Credits: 1

Offered: Each Semester

Entry-level design course where students will learn the fundamentals of computer-aided drafting and design. Students will be introduced to the world of design and will explore career opportunities in the industry. Students will use the **AutoCAD** program to create drawings and solve design problems. Topics include: Drawing Set-up, Drafting Fundamentals, Modifying Tools, Dimensioning, Plotting, 2D & Multi-view Drawings. Students will work individually and in small groups on projects in the Mechanical Design, Architectural Design and Civil Engineering fields.

## **Enterprise: Engineering & Manufacturing**

Grades: 9-12

Credits: 1

Offered: Each semester

Enterprise: Manufacturing is an advanced course designed to teach students how to apply organizational management and manufacturing practices within a simulated product development and enterprise environment. Activities related to development and enterprising functions such as financing, designing, producing, and marketing a product. Prerequisites include: Introduction to Construction, Intermediate Construction, Intro to Welding, and an approved application by instructor. *Students who successfully complete Enterprise: Engineering & Manufacturing will be eligible to apply and re-enroll as assistant managers during the following year.*

# **FAMILY & CONSUMER SCIENCES**

*Graduation Requirements:* 2 credits of practical arts (family & consumer sciences, art, business, or industrial technology).

**All courses open to ALL students.**

Students who take a sequence of courses in a career and technical area will be better prepared for a specific field at the community college. Students earn college credits for the concurrent classes. Students interested in the following careers should consider the following courses:

|                                 |              |                           |                          |                              |                                  |   |
|---------------------------------|--------------|---------------------------|--------------------------|------------------------------|----------------------------------|---|
| Early Childhood Education       | Intro to FCS | Child Development 1       | Child Development 2      | Elementary Teacher Assistant | DMACC Teacher Academy or ECE 133 | DMACC Teacher Academy or ECE 243          |
| Restaurant Mgmt / Culinary Arts | Intro to FCS | Food & Nutrition          | Culinary Arts            | Enterprise Food Production   | DMACC Iowa Culinary Institute    |   |
| Design                          | Intro to FCS | Fashion Analysis & Design | Advanced Fashion         | DMACC Marketing              | DMACC Fashion Design             |   |
| Human Services                  | Intro to FCS | Food & Nutrition          | Child Development I & II | Fashion Analysis & Design    | Advanced Fashion                 | Financial Literacy & Employability Skills |

## **Introduction to FCS**

Grade: 9

Credits: 1

Offered: Fall Semester

Intro to FCS is an overview of all aspects of Family and Consumer Sciences. Students will use project-based learning to explore careers in human services, design and hospitality. Human services topics include: interpersonal relationships, family studies, early childhood and personal finance. Design topics include: interior design, textile construction and fashion design. Hospitality topics include: food production, interviewing for a job and a hospitality event. The course also provides students an opportunity to develop essential life management skills.

## **Food and Nutrition**

Grades: 10-12

Credits: 1

Offered: Each Semester

Food and Nutrition introduces students to a variety of experiences in food preparation and nutrition. Students will be introduced to knife skills, culinary measurements, proper procedures for safety and sanitation, and the importance of nutrition. Students will prepare grain products, fruits, vegetables, eggs, dairy products, meats, and poultry. Baking will be introduced through the preparation of cookies, quick breads and yeast breads. Regular labs provide students with hands on experience in food preparation, collaboration, and product evaluation. Students entering this course should be willing to experience and try a variety of foods. This course is a prerequisite for Bakery and Culinary Arts.

## **Bakery**

Grades: 10-12

Credits: 1

Offered: One Semester

Prerequisite: Successful Completion of Food and Nutrition

Bakery students will learn how to prepare all types of baked goods. Application of baking principles will be applied to quick breads, yeast breads, cookies, pastries, pies, cakes and popular desserts. Throughout the course students will practice industry standards for safety, sanitation and employability. Students will also be exposed to industry standard plating, product innovation, and food science.

## **Culinary Arts**

Grades: 10-12

Credits: 1

Offered: One Semester

Prerequisite: Successful Completion of Food and Nutrition

Culinary Arts builds upon the concepts learned in Food and Nutrition. The course is divided into three components: preparation and presentation of ingredients, advanced baking, and international cuisine. Throughout the course, students will practice industry standards for safety, sanitation, and collaboration. Students will also be exposed to product innovation and food science. Students entering this course should be willing to experience and try a variety of foods.

**Next Steps** - *After completing Culinary Arts students are eligible to take courses at the Iowa Culinary Institute at the DMACC Ankeny campus. See Mrs. Powell for more information about this opportunity.*

## **Enterprise: Food Production**

Grade: 10-12

Credits: 1

Offered: Each Semester

Prerequisite: Successful Completion of Food and Nutrition and approved application

Enterprise: Food Production is an advanced learning experience that will center on the commercial application of the advanced cooking skills, terminology, and techniques gained in the Food and Nutrition curriculum. This class will offer students who are serious about a career in the food service industry hands on experience in catering and quantity food production. Students will be engaged in the business aspects of cooking in large quantities and serving the public: analyzing needs, production charting, recipe selection, portion control, food waste management, market orders, standardized recipes, calculating food costs and marketing. The students will staff and operate a student-run business. The experience gained in this setting will allow the students to learn valuable, practical skills in the foodservice industry. *Students who successfully complete Enterprise: Food Production will be eligible to apply and re-enroll as assistant managers for additional semesters.*

## **Child Development 1**

Grades: 10-12

Credits: 1

Offered: Fall Semester

Students who enjoy working with children and/or those considering a career in early childhood or elementary education, human services, nursing, or psychology will benefit from this course. Emphasis is placed on enhancing the development of young children. Topics include stages of development (prenatal-preschool age), meeting children's developmental needs, and age appropriate guidance strategies. Small and large group discussion and activities are a major emphasis of the class.

## **Child Development 2**

Grades: 10-12

Credits: 1

Offered: Spring Semester

*Prerequisite: Successful completion of Child Development I*

This course gives students the opportunity to gain the knowledge and skills necessary for working with young children. Students will review the developmental characteristics of toddler, preschool and school age children and develop age appropriate learning experiences for children. Students will also participate in a six week lab experience and complete observations of guidance strategies and teaching methods.

**Next Step Option 1** - After completing Child Development II students are eligible to take online college courses toward the CDA credential (ECE 133 & ECE 243). See Mrs. Powell for more information about this opportunity.

**Next Step Option 2** - Students interested in early childhood education or elementary education should consider enrolling in the DMACC teacher academy.

## **Fashion Analysis & Design**

Grade: 10-12

Credits: 1

Offered: One Semester

Fashion Analysis & Design is a survey of all aspects related the fashion industry: merchandising, design and production. Students will begin by exploring the meaning of fashion, the fashion movement and a fashion career unit. Following this unit, textile fibers and fabrics will be introduced. The elements and principles of design as well as fashion sketching will finish this segment of the class. Students will also be engaged in a variety of fashion construction projects. Next Step at CHS - Marketing is a great next step for students interested in learning more about fashion marketing.

## **Advanced Fashion**

Grade: 10-12

Credits: 1

Offered: One Semester

*Prerequisite: Successful completion of Fashion Analysis and Design*

### **Course Description:**

Advanced Fashion is intended for students who have an interest in a fashion and textile career. Students will take a deeper look at the fashion industry including garment construction, textile science, and fashion merchandising. Students will construct a garment to be displayed during a student run fashion show.

***Next Step at DMACC*** - After completing *Fashion Analysis and Design* students are eligible to enroll in the *Fashion or Fashion Design* program at the DMACC Ankeny campus. See Mrs. Powell for more information about this opportunity.



# **BUSINESS EDUCATION**

*Graduation Requirements:* 2 credits of practical arts (Family & Consumer Science, Art, Business, or Industrial Technology), Financial Literacy.

Students who take a sequence of courses in a CTE area will be better prepared for a specific field at the community college. Students earn college credits for the concurrent classes. Students interested in Business Major, Finance, Accounting, and/or Marketing should consider the following courses: **All courses are open to ALL students.**

|                                      |                          |                         |                          |                    |                     |
|--------------------------------------|--------------------------|-------------------------|--------------------------|--------------------|---------------------|
| Business Administration & Management | Business Law             | WBLWork Experience      | Entrepreneurship         | Marketing          | Financial Literacy  |
| Web Page, Digital Multimedia         | Introduction to Business | Business Communications | Microsoft Applications I | Graphic Technology | WBL Work Experience |

## **Microsoft Applications 1**

Grades: 9-12

Credits: 1

Offered: Each Semester

Students will utilize Microsoft Word, Excel, and Publisher to develop skills in word processing, spreadsheets, and publications. Upon successfully completing this course, students will utilize the software to create and format letters, memos, reports, spreadsheets, charts, and publications.

## **Introduction to Business**

Grades: 9-10

Credits: 1

Offered: Each Semester

Intro to Business is designed to introduce students to common business concepts and to explore opportunities in business careers. Units will include resources and supply and demand, basics of economics, business ethics and responsibilities, human resource tasks, marketing, entrepreneurship, and career opportunities.

## **Graphic Technology**

Grades: 9-12

Credits: 1

Offered: One Semester

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Digital Media will introduce students to basic concepts of graphic design and photo editing. Students will use the Adobe software of InDesign and Photoshop. This is an introductory course where students will learn the elements of good design and transfer that to a variety of formats (newsletters, postcards, advertisements, etc.). In addition, students will use Photoshop to edit and enhance photos to use within those formats. All projects and activities are designed to enable student creativity, problem-solving skills, and self-directed learning.

## **Business Communications**

Grades: 10-12

Credits: 1

Offered: One Semester

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Digital Media will introduce students to basic concepts of graphic design and photo editing. Students will use the Adobe software of InDesign and Photoshop. This is an introductory course where students will learn the elements of good design and transfer that to a variety of formats (newsletters, postcards, advertisements, etc.). In addition, students will use Photoshop to edit and enhance photos to use within those formats. All projects and activities are designed to enable student creativity, problem-solving skills, and self-directed learning.

## **Business Law**

Grades: 10-12

Credits: 1

Offered: One Semester

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This course is designed as an introduction to law and to the study of legal issues. Areas explored include ethics, criminal and civil law, societal problems, tort law, the dual court system, trial procedures, contractual law, and consumer law. This class is an excellent beginning step for students interested in understanding the law of our land, and who have an interest in pursuing a career in business, criminal justice, or any other career related to law.

## **Entrepreneurship**

Grades: 10-12

Credits: 1

Offered: One Semester

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This class is offered for those students interested in either running their own business or becoming a manager. Topics covered include identifying characteristics of an entrepreneur, planning a small business, and developing a business plan. This is a project-based class where you get to go through the steps of launching your own business.

## **Marketing**

Grades: 10-12

Credits: 1

Offered: One Semester

Marketing is a crucial business function through which a company carries out activities to plan, price, promote and distribute products or services to its customers. The objective of this course is to introduce the student to the marketing concept and look at the different tactics marketers use in the sports and entertainment industry. Other topics explored include selling and marketing research. Careers related to this course include marketing, advertising, general business, new product design and development, and sales and management. This is a project-based class where students develop and promote a new product, along with various other projects incorporated in the curriculum.

***Next Step*** - After completing any combination of Business Law, Entrepreneurship, or Marketing students maybe be interested in enrolling in DMACC Career Advantage Business and Marketing.

## **Financial Literacy & Employability Skills**

Grades 11-12

Credits: 1

Offered: Each Semester

The objective of this course is to provide students with the knowledge and skills necessary for life as an adult. The course will focus on information necessary to help students plan and achieve a secure financial future. Units will include goal setting, decision making, spending plans, banking services, credit, saving & investing, insurance, identity theft, resumes and mock interviews. Students will build workplace skills such as communication and collaboration, integrity and ethical behavior, self-direction and lifelong learning. **This is a required course for graduation.**

## **Work Based Learning (WBL)**

WBL is an 11th and 12th grade program that allows students, while still attending high school, to gain valuable real-world working experiences in a possible future career field. The WBL classroom experience is a program for all interested juniors and seniors, while the WBL work experience program is for seniors who have passed the minimum requirements set by the WBL coordinator. Students in WBL programs have been employed in law offices, architectural firms, and care centers, as well as factory, auto mechanics, and secretarial areas. The integration of the workplace and the classroom increases the understanding of employment issues and the development of employability skills.

Students who would like to be admitted into the WBL program should register during the spring semester of their **sophomore year**. They will take the classroom experience either 1<sup>st</sup> or 2<sup>nd</sup> semester of their junior year to be immediately eligible to work starting their senior year. The WBL coordinator will assist the student in obtaining employment, but the student is fully responsible for gaining employment and will not be fully admitted to the WBL work experience program until hired at a workplace approved by the WBL coordinator.

**\*WBL – Classroom Experience:**

Grades: 11, 12

Credits: 1

All year course

*Prerequisite:* Junior/Senior or ELP identified Freshman/Sophomores

**WBL Classroom Experience:** Prior to entering the work experience program, students must complete WBL class, which is a one semester course dealing with workplace skills, job seeking skills, and career goal setting. This class meets daily and enables the student to communicate with other students and the coordinator about possible problems they may face in the workplace. Minimum requirements are necessary to be eligible for work experience during the senior year.

- minimum 80% ( B-) or higher class grade
- 90% attendance or better for all classes during the WBL classroom experience

**\*WBL – Work Experience:**

Grade: 12

Credits: 2 per Semester

Offered: All year course

*Prerequisite:* Minimum requirements are necessary to be eligible for work experience during the senior year.

- minimum 80% ( B-) or higher class grade
- 90% attendance or better for all classes during the WBL classroom experience (less than 9 days out of a 90 day semester/term)

After successful completion of the classroom experience, the student may be eligible to gain field experience and earn high school credit through employment. Work experience would average over 15 hours per week at a workplace approved by the WBL Coordinator. Students can earn two credits each semester for successful completion of work experience. Each week, the student must turn in an employability skills time sheet and review that with the WBL coordinator.

# COMPUTER SCIENCE

## Computer Science Principles

Grades: 9-12

Credits: 1

Offered: One semester

Computer Science Principles introduces students to the foundational concepts of computer science and challenges them to explore how computing and technology can impact the world. More than a traditional introduction to programming, it is a rigorous, engaging, and approachable course that explores many of the foundational ideas of computing so all students understand how these concepts are transforming the world we live in. This class will allow students to program applications using JavaScript, and they will be able to create their designs in either block or text, depending on their experience and preference. **This course is an elective and cannot be used as a substitute for an Iowa Core course.**

# **PHYSICAL EDUCATION**

*Graduation Requirements: All students are required to take 1 semester of physical education each year of high school.*

## **PE- Activities for a Lifetime**

**Grade:** 9-12

**Credits:** 1

**Offered:** Each semester

This course consists of a variety of sport type activities (both team and individual), lifetime activities and fitness movements and concepts that will help lead you to a healthy lifestyle after high school. Examples of activities would be: Badminton, Pickleball, Table Tennis, Disc Golf, Yard games, ultimate frisbee, volleyball, basketball, soccer/speedball, tchoukball and sabkiball. You will learn to evaluate, monitor, and improve your personal fitness through participation in a variety of lifetime activities. This course offers activities for everyone sports type activities, cardio activities (HITT and TABATA workouts), basic weight training, and a variety of fitness/games type opportunities.

## **PE-Strength and Conditioning**

**Grade:** 10-12

**Credits:** 1

**Offered:** Each semester

In this course students will learn all phases of a complete and comprehensive strength training program which emphasizes functional strength, progressions of major lifts including proper technique, proper spotting, and additional safety protocols.

## **Athletic Weights**

**Grade:** 9-12

**Credits:** 1

**Offered:** Each semester

*Prerequisite:* Involved in an approved athletic program.

Athletic Weights is an advanced weight training class. Individuals out for sports are HIGHLY encouraged to take this class. In this class, advanced weight lifting techniques will be used to help enhance athletic performance. Students must be currently involved in an approved athletic program to participate in athletic weights. Priority will be given to students who are in season for a current activity. (i.e. if you are only out for a spring sport you may not be able to take athletic weights in the fall). If a student has not participated in an activity in the prior school year, a student should have participated in an off-season workout to be eligible to enroll in this course during the fall semester. This course enrollment will be limited due to safety measures.

## **ELECTIVES**

### **Health – The Social/Emotional You**

Grades: 9-12                      Credits: 1                      Offered: Fall semester

This course will include your health and your mental and emotional health. Topics covered: managing stress, and mental and emotional problems, tobacco, alcohol, illegal drugs, social media, bullying and relationships. This course requires students to take notes and watch videos over the subject matter.

### **Health – The Physical You**

Grades: 9-12                      Credits: 1                      Offered: Spring Semester

This course will include your health and your physical health. Topics covered: the structure, function, and disorders of the human body systems, sexually transmitted diseases, HIV and AIDS, physical fitness, physical activity for life, nutrition, food, personal health. This course requires students to take notes and watch videos over the subject matter.



## Carlisle High School 2024-2025 Registration Information

All students will use the Academic Planner in Infinite Campus to **PLAN AND REGISTER** for classes for the 2024-2025 school year. The planner is set up to give guidelines for each grade level to meet overall graduation requirements. Students should check the Academic Progress Report to be sure they have planned to take all necessary courses to meet graduation requirements.

Students will need to plan for both semesters of a year-long class. (For example: Language Arts 10 S1 and Language Arts 10 S2).

You must choose at least 2 alternates in the event that a preferred course is unavailable.

Course descriptions are available:

An online course catalog is available in the Academic Planner in Infinite Campus. Online at [www.carlislehighschoolcounseling.weebly.com](http://www.carlislehighschoolcounseling.weebly.com) under Registration Materials.

# Suggested Sequencing for Required Courses

## Language sequence

4 years of English to meet graduation requirements.

|  | 9th grade                                  | 10th grade           | 11th grade                        | 12th grade                      |
|--|--|----------------------|-----------------------------------|---------------------------------|
| Basic/CC                               | Language Arts 9                            | Language Arts 10     | Language Arts 11                  | 2 Language Arts Electives       |
| 4 year college                         | Language Arts 9                            | Language Arts 10     | Language Arts 11                  | Composition I<br>Composition II |
| 4 year college ADV                     | Language Arts 9                            | Language Arts 10     | Composition I<br>Composition II   | AP Literature & Composition     |
| <b>*LANGUAGE ARTS ELECTIVE CHOICES</b> |  |                      |                                   |                                 |
| AP Literature & Composition            | Alt. Lit Perspectives<br>Sports Literature | Issues in Literature | Creative Writing<br>Novel Writing | Communication Skills            |

## Math sequence

3 years of Math to meet graduation requirements (must complete Algebra I).

|                 | 9th grade | 10th grade        | 11th grade      | 12th grade    |
|-----------------|-----------|-------------------|-----------------|---------------|
| Basic/CC        | Algebra I | Geometry          | Technical Math  |               |
| 4yr college     | Algebra I | Geometry          | Algebra II      | AP Statistics |
| 4yr/STEM career | Geometry  | Pre AP-Algebra II | AP Pre-Calculus | AP Calculus   |
|                 |           | Trigonometry      | AP Statistics   | Prob & Stats  |

## Science sequence

3 years of Science to meet graduation requirements.

|                   | 9th grade        | 10th grade         | 11th grade   | 12th grade |
|-------------------|------------------|--------------------|--------------|------------|
| Basic/CC          | Biology          | Chemistry          | Biomed       |            |
| 4yr college       | Physical Science | Chemistry          | Anatomy/     | AP Physics |
| 4yr/Advanced STEM | Biology          | Advanced Chemistry | AP Chemistry | AP Physics |

\*Marine Biology and Zoology may be taken concurrently with Chemistry

## Social Studies sequence

3 years of social studies to meet graduation requirements.

|  | 9th grade  | 10th grade | 11th grade                  | 12th grade          |
|--|--|------------|-----------------------------|---------------------|
| All students                                     | World History  | Elective   | US History or AP US History | American Government |
| Elective Courses<br>(one needed in grades 10-12) | Psychology<br>Sociology<br>Ancient Western Civilization<br>Economics<br>Modern Western Civilization<br>AP Psychology |            |                             |                     |

# NAVIANCE CCR CURRICULUM

Each year students are required to complete tasks related to career and college planning to earn .25 elective credit for graduation. Students must complete tasks in the system Naviance Student to earn their credit, <https://student.naviance.com/carlislehs>

Naviance Student allows your student to:

- **Get involved in the planning and advising process** – Build a resume, complete online surveys, and manage timelines and deadlines for making decisions about colleges and careers
- **Research colleges** – Compare GPA, standardized test scores, and college majors
- **Research careers** – Research hundreds of careers and career clusters, and take career assessments
- **Create plans for the future** – Create goals and to-dos, and complete tasks assigned by the school to better prepare your student for future college and career goals.

To access the online curriculum checklist and getting started guides for each grade level visit the counseling website <http://carlislehighschoolcounseling.weebly.com/naviance-ccr.html>

We hope that you will find this resource helpful.  
If you have questions about Naviance Student,

Please contact your student's high school counselor.

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