



# COURSE GUIDE

2021-2022  
Celina High School

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Cover Photo of Class of 2020 Valedictorian Alexys Ginegaw who is attending Texas Woman's University, courtesy of Renee Marler of *Our Celina Magazine*.

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## Celina ISD Vision and Mission Statement

**MISSION** of Celina ISD, the destination district, is to provide a safe, caring, and collaborative learning environment for all students.

**VISION** Shaping the future by providing an educational model of innovation & excellence

**VALUES** Inspiring students and empowering minds Excellence in all we do Our traditions while embracing the future Faith, family, & relationships Respect, loyalty, & integrity.

## Non-Discrimination Statement

It is the policy of Celina ISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.

Celina ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational programs. For information about your rights or grievance procedures, contact the Title IX Coordinator, Dr. John Matthews, at 205 S. Colorado Street, Celina, Texas, 75009, 972-947-9340

Es política de Celina ISD el no discriminar con base en raza, color, nacionalidad, sexo, discapacidad o edad en sus prácticas para emplear tal y como lo requiere el Título VI del Código Civil en su enmienda de 1964; Título IX de las Enmiendas Educativas de 1972; Enmiendas al Acto de Edad Discriminatoria de 1975; y Sección 504 de la Enmienda al Acto de Rehabilitación de 1973.

Celina ISD se asegurará que la limitación o falta de habilidades en el idioma Inglés no sea una barrera de admisión y participación en programas educativos. Para mayor información de sus derecho o procedimientos de apelación, favor de comunicarse con el Coordinador del Título IX, Dr. John Mathews con dirección en; 205 S. Colorado St., Celina, TX 75009

Celina Independent School District will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs. For information about your rights or grievance procedures, contact:

Assistant Superintendent,  
Title IX Coordinator  
Celina Independent School District  
205 S Colorado Street  
Celina, TX 75009  
469-742-9100

## Academic Information

Beginning with the graduating class of 2018, all students shall enroll in the courses necessary to complete the curriculum requirements of the Foundation High School Program (FHSP) and the curriculum requirements for at least one endorsement. Upon entering the 9th grade, a student will indicate in writing the endorsement that the student intends to earn. Students should choose carefully in order to select courses that will be challenging, interesting to them, and that will meet graduation requirements as well as lead to an endorsement.

### **AUTOMATIC ADMISSIONS**

For a student to be eligible for Automatic Admission into a Texas four-year university, the student must rank in the top 10% of their graduating class at a Distinguished Level of Achievement which includes successful completion of Algebra 2.

### **COURSE DESCRIPTIONS – GENERAL INFORMATION**

This catalog is provided to assist parents and students in making course selections and planning their academic futures. Students and parents should work together to explore course offerings, graduation plans, and endorsement areas. Course descriptions are arranged by subject feature information about the grade level and required and/or recommended pre-requisites. Some courses require teacher approval, summer assignments, or supply fees. Not all courses are offered each year. Counselors are available to work with students and parents to select appropriate courses for the student that is within their interest area, are challenging and that meet graduation requirements.

### **DISTINGUISHED LEVEL OF ACHIEVEMENT**

A student may earn a distinguished level of achievement by successfully completing the CISD Foundation High School Program plan. This plan includes:

- ✓ A total of four credits in mathematics, which must include Algebra II
- ✓ A total of four credits in science
- ✓ The remaining curriculum requirements
- ✓ The curriculum requirements for at least one endorsement

A student must earn a distinguished level of achievement and rank in the top 10% of their class to be eligible for automatic admission.

## Endorsements

A student may earn an endorsement by successfully completing: curriculum requirements for the endorsement, four credits in math, four credits in science, and two additional elective credits. CISD offers endorsements in Arts and Humanities, Business and Industry, Multi-Disciplinary, Public Services, STEM Math, and STEM Science. Outlines of these endorsements can be found later in this guide.

### **BENEFITS OF GRADUATING WITH A DISTINGUISHED LEVEL OF ACHIEVEMENT AND ENDORSEMENTS**

- Allows you to compete for top 10% automatic admissions at any Texas public university
- Ensures you are a more competitive applicant and better prepared for college-level coursework at community/technical colleges and universities
- Opportunity to earn an endorsement in an area you are interested in and provides more immediate enrollment opportunities after high school into classes that are related to your field of study
- Gives you a strong foundation to successfully complete an industry workforce certification

## Grade Conversion Tables

For students transferring in from an Accredited Public or Private school systems that use letter grades:

Submitted Grade Equivalent	Numerical
A	95
B	85
C	75
D (if passing)	70
F	55

For students transferring in from an Accredited Public or Private school systems that use Pass or Fail:

Submitted Grade Equivalent	Numerical
P (pass)	95
F (fail)	55

For students transferring in from an Accredited Public or Private school system that use letter grades with pluses (+) or minuses (-):

Submitted Grade Equivalent	Numerical
A+	98
A	95
A-	92
B+	88
B	85
B-	82
C+	79
C	77
C-	75
D+ (if passing)	72
D (if passing)	71
D- (if passing)	70
F	50



## Grade Level Classifications

To be promoted to the next grade level, students must earn credits each year as follows:

Grade Level	# of Credits
10th (Sophomore)	6
11th (Junior)	12
12th (Senior)	18

## Performance Acknowledgements

A student may earn a Performance Acknowledgement on their transcript for outstanding achievement: in a dual credit course, in bilingualism and bi-literacy, on an AP test, on the PSAT, ACT-Aspire, SAT or the ACT exam, or for earning a nationally or internationally recognized business or industry certification or license.

### **Outstanding performance in a dual credit course**

- ~ By completing at least 12 hours of college academic courses, including dual credit, as part of the Texas core curriculum, and advanced technical credit including locally articulated courses, with a grade equivalent of 3.0 (B) or higher on a scale of 4.0
- ~ An associate degree while in high school

### **Outstanding performance on an AP test**

- ~ A score of 3 or above on a College Board advanced placement exam

### **Bilingualism and Bi-literacy**

- ~ Completing all ELA requirements and maintaining a minimum GPA of an 80 on a 100 scale plus one of the following:
  - ✓ Completing a minimum of 3 credits in the same language in a language other than English with an 80 on a 100 scale GPA
  - ✓ Demonstrated proficiency in TEKS for Level IV or higher in a language other than English with a minimum of an 80 on a 100 scale
  - ✓ Completion of at least 3 credits in foundation subject area courses in a language other than English on an 80/100 scale
  - ✓ Demonstrated proficiency in one or more languages other than English through a score of 3 or higher on a College Board advanced placement exam for a language other than English
- ~ In addition, an English Language Learner must have participated in and met the exit criteria for a bilingual or English as a second language program and scored at the Advanced High level on the Texas English Language Proficiency Assessment System.

### **Outstanding Performance on the PSAT, the ACT-Aspire, the SAT or the ACT**

- ~ Earning a score on the PSAT/NMSQT that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation; or

- ~ Achieving the college readiness benchmark score on at least three of the five subject tests on the ACT-Aspire examination; or
- ~ Earning a combined score of at least 1310 on the SAT; or
- ~ Earning a composite score on the ACT examination of 28 (excluding writing)

**Earning a National or International recognized business or industry certification or license**

- ~ Performance on an examination or series of examinations sufficient to obtain a nationally or internationally recognized business or industry certification
- ~ Performance on an examination sufficient to obtain a government-required credential to practice a profession

## Pre-AP and Course Agreement

College Board Advanced Placement courses provide college-level studies for high school students who desire and are ready to do college-level work. In other words, these students have a strong curiosity about the subject and a willingness to work hard. AP courses are taught using college-level materials and strategies that will prepare students to take the College Board Advanced Placement Examinations. Because of the intensity of the Pre-AP and AP college preparatory courses, students should expect the pace and academic rigor of both Pre-AP and AP courses to be above grade level. Typically, successful AP and Pre-AP students are task-orientated, proficient readers who are able to organize their time and who have parental support. Students who are already overextended with academics or extracurricular activities should seriously consider whether they have the time to devote to an AP or Pre-AP class. Outside study time is at least one to two times the amount of time spent in class per week and, in most cases, there is a summer assignment that must be completed prior to classes beginning for the school year.

### Student Commitment

- ~ Participation in the AP program is a privilege, not a right. Admission requires successful completion of the appropriate pre-AP course or pre-requisite.
- ~ Students must have passed the EOC test in the AP subject they will be taking.
- ~ Every student taking an AP course will register for, pay for, and take an AP exam in the spring, OR their final exam will be a released AP exam (from CollegeBoard) provided by the teacher. Approximate cost per AP exam: \$95.
- ~ Students must have completed summer assignments as required by each grade level and content area.
- ~ Students will come to class prepared each day. Such preparation will include bringing necessary supplies. Students also agree to complete ALL assignments and tests.
- ~ Regular and prompt attendance is required. Makeup tests will not interfere with important classroom activities, thus a student may be required to be available outside of class to make up exams.
- ~ Excellent conduct in the classroom.
- ~ Students and their families agree to make arrangements for an appropriate study area at home, adequate study time, and proper rest.

### Parental Commitment

- ~ Encourage the student to adhere to all the above-mentioned student commitments.

- ~ Check daily to see that the student has completed any assignments and has the necessary supplies needed for the class.
- ~ Be aware of any tests assigned for the week and encourage the student to prepare.
- ~ Encourage the student to communicate openly with the teacher when disciplinary or curricular questions or concerns arise. If the situation remains unsolved, request an appointment with the teacher.
- ~ Be prepared to pay for your student's AP exam in the spring semester.

### **Teacher Commitment**

- ~ Provide a positive role model while teaching, emphasizing both the need for learning the discipline and its applications.
- ~ Agree to teach the course at a level and pace in accordance with the College Board recommendations and the CISD curriculum document.
- ~ Advise students and parents if the student's work or work habits are not adequate.
- ~ Agree to make reliable decisions regarding each student's placement in a Pre-AP or AP course.

### **Exit Policy**

A student may exit a Pre-AP or AP class at the end of the 1st six-weeks of school or at the end of the 1<sup>st</sup> semester. This is the only time a student will be permitted to drop a Pre-AP or AP class after they have made a commitment to the class. If the student changes classes at 6 weeks, they will keep the grade from the 1<sup>st</sup> 6 weeks grading period. It will move with them to the regular class at the beginning of the 7<sup>th</sup> week of the semester and become a part of their 9-week grade average. If the student changes classes at the end of the 1<sup>st</sup> semester, the semester average for the Pre-AP or AP class stands as is.

This exit can be teacher, student, or parent initiated. If the parent does not want their student to move out of the Pre-AP or AP class after being advised to do so, they and the student will sign a "Continuation of Pre-AP or AP class Agreement." This agreement states that if the student does not move to a regular class, even though they are not meeting the standards of the class, then there will be NO WAIVERS for participation in extracurricular activities granted for the remainder of the academic year.

### **SCHEDULING AND COURSE SELECTIONS**

Our district will continue to phase in changes in course selections so that we are able to provide the best educational opportunities for students to meet the requirements for the various graduation plans that are required by the state of Texas. All students in grades 9, 10, and 11 will be scheduled for the equivalent of eight class periods per day. Seniors in good standing must enroll in at least 5 class periods per day; however, they must be on track and must have met all other graduation requirements to be eligible for early release. Seniors enrolled in a cooperative work program (Career Prep), if offered, will be permitted to leave school one class period earlier for job training.

Each year, students will receive a course selection sheet. This sheet will include information that will assist students and parents in setting academic goals, selecting desired courses, and providing alternate choices if the first choice is not available. Course selections should be based on knowledge of graduation requirements and endorsements, student interests and abilities, and desired college or career plans. Course selection sheets are expected to be signed by both parent and student and returned on or before the day they are due. Please keep in mind the deadlines for specific programs and application deadlines, such as for dual credit

courses, as well as your campus registration deadlines. If course selection sheets are not signed and returned by the due date, a schedule will be created for your student so that we may complete the scheduling process for the coming year.

## **SCHEDULE CHANGE GUIDELINES**

Two vital points to be made regarding schedule changes: (1) According to the 90% attendance rule, a student must be in a class 90% of the time a class is offered to receive credit for that class, and (2) one of the most critical functions performed by a school is pre-registration of its students. Based on courses that students choose to take during Spring pre-registration, classes are scheduled and teachers are hired for the next school year. Please choose your classes carefully.

In order to provide course continuity, enhance student learning and allow accurate projections for hiring personnel, course offerings, and class sizes, schedule changes after the deadline will be limited to the following:

- The student failed a course required for graduation and must repeat the course,
- The student has enrolled in a specific course for which they have already received credit,
- The student is a senior who needs a specific course required for graduation,
- The student has not completed the necessary pre-requisite course(s) to be enrolled in a course,
- A student is enrolled in a Pre-AP/AP course involving an AP agreement and has chosen to change levels at the end of the 1<sup>st</sup> 6-weeks or 1<sup>st</sup> semester as per the agreement.

Requests for schedule changes meeting the criteria listed above must be made during the first five days of each semester with the exception of Pre-AP/AP courses. Students must follow the guidelines outlined in the Pre-AP/AP contract. (Information on Pre-AP/AP contracts can be found earlier in this catalog.)

Schedule changes will always be subject to the availability of another suitable course.

***Celina ISD does not discriminate on the basis of sex, handicap, race, color, and/or national origins in its educational programs. Admission into career programs is based on age, grade, interest, aptitude, and ability. Lack of English language will not be a barrier to admissions and participation in any educational program.***

Knowing the difference between Advanced Placement, Dual Credit, and Dual Enrollment courses will assist you in planning for both high school and college courses.

	<b>Advanced Placement (AP)</b>	<b>Dual Credit (DC)</b>
<b>Description</b>	The AP Program allows students to take college-level courses and the related AP exam, to potentially earn college credit while still in high school.	Dual Credit allows students to simultaneously earn high school credit and college hours by successfully completing Collin College courses while in high school.
<b>College Credit</b>	College hours may be granted when students pass the AP examination. It is up to the individual colleges and universities to grant college hours, not the College Board or the AP program.	College hours are awarded upon successful completion of the course.
<b>Teachers/ Instructors</b>	Courses are taught by high school teachers trained by The College Board.	Taught by college instructors and/or high school teachers who serve as adjunct professors.
<b>College/University Acceptance</b>	Accepted throughout the nation. Usually requires a score of 3 or higher. See individual college/university for their policy on accepting AP credit.	Accepted at public colleges and universities in Texas. Check with your individual college for academic requirements.
<b>Location</b>	AP courses are taught on the Celina campus.	Dual credit courses are taught on the Celina campus.
<b>Eligibility</b>	Open to any student. Students are expected to have the skills and knowledge from prior Pre-AP	Students must qualify by taking the Texas Success Initiative (TSI) test, or by earning a STAAR EOC waiver. The TSI test is

	courses, and be motivated to work outside the school day on college level material.	offered for a fee at Collin College campuses. Students are expected to be motivated to work outside the college classroom on college level material.
<b>Cost</b>	AP courses are free. The fee for the corresponding AP exam at the end of the course is \$95. This fee is reduced to \$54 for students who qualify for the free/reduced meal program.	Collin College tuition/fees apply. Tuition is \$160 to \$170 per semester. Tuition is free for students living in the county and qualifying for the free/reduced meal program.
<b>Textbooks</b>	Provided by the school	Textbook purchase required.
<b>Impact on high school GPA</b>	5.0 class	5.0 class

**Advanced Placement courses taught at Celina:**

AP English Language & Composition  
 AP English Literature and Composition  
 AP United States History  
 AP Human Geography  
 AP World History

AP Calculus AB  
 AP Biology  
 AP Chemistry  
 AP Spanish  
 AP Art

**Dual Credit courses through Collin College:**

Please see <http://www.collin.edu/gettingstarted/dualcredit/> for more information about Collin College dual credit courses. Dual Credit courses being offered on the Celina campus: Government/Economics; English 3 - 1301/1302; English 4 – 2322/2323; US History 1301/1302; College Algebra/College Elementary Statistics 1314/1342.

## Foundation High School Program Summaries

<p><b>*Foundation + Endorsement + Distinguished = 26 credits</b></p> <p><i>(This is the default plan for all Celina ISD students)</i></p> <p>4 credits English Eng 1, 2, 3, and 1 other English</p> <p>4 credits Math Alg 1, Geom, Alg 2, 1 other Math</p> <p>4 credits Science Bio, Chem, Phys, 1 other Science</p> <p>4 credits Social Studies Wld Geo or AP Human Geo, Wld Hist, US Hist, and Gov/Econ</p> <p>2 credits Foreign Language or Comp Sci</p> <p>1 credit Physical Education</p> <p>1 credit Fine Art</p> <p>1/2 credit Speech</p> <p>1/2 credit Health</p> <p>5 credits Electives</p> <p>Complete at least 1 Endorsement: At least 4 of the 26 credits must be in a coherent sequence and specific to an endorsement area.</p> <p><b>*Automatic Admission</b> <i>Students wishing to apply for automatic admission to colleges or universities must be in the top 10% of their class and must complete this plan to earn a Distinguished Level of Achievement.</i></p>	<p><b>Foundation + Endorsement = 26 credits</b></p> <p>4 credits English Eng 1, 2, 3, and 1 other English</p> <p>4 credits Math Alg1, Geom, and 2 other Maths</p> <p>4 credits Science Bio, Chem, and 2 other Sciences</p> <p>4 credits Social Studies Wld Geo or AP Human Geo, Wld Hist, US Hist, and Gov/Econ</p> <p>2 credits Foreign Language or Comp Sci</p> <p>1 credit Physical Education</p> <p>1 credit Fine Art</p> <p>1/2 credit Speech</p> <p>1/2 credit Health</p> <p>5 credits Electives</p> <p>Complete at least 1 Endorsement: At least 4 of the 26 credits must be in a coherent sequence and specific to an endorsement area.</p> <p><i>Must meet committee criteria to earn this grad plan.</i></p>	<p><b>Foundation Plan = 22 credits</b></p> <p>4 credits English Eng 1, 2, 3, and 1 other English</p> <p>3 credits Math Alg 1, Geom and 1 other Math</p> <p>3 credits Science Bio and 2 other Sciences</p> <p>3 credits Social Studies Wld Geo or Wld Hist, US History, and Gov/Econ.</p> <p>2 credits Foreign Language or Comp Sci</p> <p>1 credit Physical Education</p> <p>1 credit Fine Art</p> <p>1/2 credit Speech</p> <p>1/2 credit Health</p> <p>4 credits Electives</p> <p><i>Must meet committee criteria after Sophomore year to earn this grad plan.</i></p>
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Endorsement Areas	End of Course Assessments (required for Graduation)
Arts & Humanities Business & Industry Multi-Disciplinary Public Services STEM	English I English II Algebra I Biology US History

## GPA COURSES

**Beginning with the freshman class of 2018-19**, the District shall include in the calculation of grade point averages the first four courses are taken in each of the four core areas for not more than 16 courses total: English, Mathematics, Science, and Social Studies. GPA is cumulative and includes only those points earned in grades 9 through 12. Students will receive GPA points according to the grade point averaging table listed in this catalog. Please continue for a list of courses and GPA levels.

*Board approval, February 2018  
CISD Policy EIC (Local)*

## EXCLUSIONS

Grade point averages shall only include the first four courses taken in each of the four core course areas in grades 9 – 12. The calculation of grade point averages shall exclude any more than four courses taken in each area.

## DISSEMINATION OF GRADE POINT AVERAGES

**Grade point averages** will be posted after the first semester of the freshman year. Students will be able to view their GPA on their transcript, but **the rank will not be shown**. Instead of their specific rank, a key will be posted/shared where the student’s GPA fits in a range of percentages. If parents/students would like to see the exact rank number, they may request this from the counselors. The top 10% cut score will then be reported and posted once a year beginning the Spring of freshman year.

Those who are in the 25th percentile or below will still be able to request the counselors to show their rank on their transcript if needed while applying for college. Transcripts sent to Texas colleges and universities through the state TREX system will include class rank.

*Board approval, February 2018  
CISD Policy EIC (Local)*

## RANKING



GPA points are assigned to numerical grades at the end of each semester. Points are averaged together. Averages are then put into descending order (highest to lowest) with the highest GPA average being the top in the class. GPA is cumulative and includes all courses taken while in grades 9-12 with the exception of the exclusions listed above.

## Grade Point Average Table

*Effective with Freshman Class of 2018-19 and Beyond*

If your <u>NUMERIC</u> <u>GRADE</u> is:	Your GPA points will be - - -	
	REGULAR	Pre-AP/ AP / Dual
100	4 point	5 point
99	3.9	4.9
98	3.8	4.8
97	3.7	4.7
96	3.6	4.6
95	3.5	4.5
94	3.4	4.4
93	3.3	4.3
92	3.2	4.2
91	3.1	4.1
90	3.0	4.0
89	2.9	3.9
88	2.8	3.8
87	2.7	3.7
86	2.6	3.6
85	2.5	3.5
84	2.4	3.4
83	2.3	3.3
82	2.2	3.2
81	2.1	3.1
80	2.0	3.0
79	1.9	2.9
78	1.8	2.8
77	1.7	2.7
76	1.6	2.6
75	1.5	2.5
74	1.4	2.4
73	1.3	2.3
72	1.2	2.2
71	1.1	2.1
70	1.0	2.0

## Core Courses Included in GPA

Beginning with the freshman class of 2018-19 and beyond, the first four core courses taken in each of the four areas listed below will count towards GPA. Any courses taken beyond the first four in each area will be excluded when making calculations. Courses to factor into GPA are limited to no more than a total of 16.

	<b>REGULAR 4 point</b>	<b>Pre-AP / AP / Dual 5 point</b>
<b><u>English</u></b>	English 1 English 2 English 3 English 4 Business English	Pre-AP English 1 Pre-AP English 2 AP English 3 AP English 4 Approved Dual English
Courses	College Prep English	OnRamps English
courses		
<b><u>Math</u></b>	Algebra 1 Geometry Math Models Algebraic Reasoning Algebra 2 Pre-Calculus *Financial Math *Statistics & Business Dec Mkg College Prep Math	Pre-AP Algebra 1 Pre-AP Geometry  Pre-AP Algebra 2 Pre-AP Pre-Calculus Dual Pre-Calculus Approved Dual Math Courses AP Calculus OnRamps Math Courses
<b><u>Science</u></b>	Biology IPC Chemistry Physics *Anatomy & Physiology *Forensic Science *Advanced Animal Science *Princ of Technology	Pre-AP Biology AP Biology Pre-AP Chemistry AP Chemistry Pre-AP Physics *Scientific Research & Design AP Environmental Science Approved Dual Science
Courses		OnRamps Science Courses
<b><u>Social Studies</u></b>	World Geography World History US History US Gov't/Economics	AP Human Geography AP World History AP US History Dual US History Dual US

## Course Descriptions

### English Language Arts & Speech

Four years of English are required for graduation from Celina High School. English courses are designed to fuse language, composition, and literature. Composition is a part of the classroom instruction in English at all grade levels and requires regular review and frequent practice.

<b>ENGLISH 1</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>9</b>	<b>GPA Level:</b>	<b>4 point</b>
<b>Pre-Requisite:</b>	<b>None</b>		

English I will cover all areas of grammar, mechanics, usage, composition, and literature for effective communication. In composition emphasis is placed on the writing process: paragraph development, prewriting, writing, revising, and editing. The literature explores short story, drama, poetry, and non-fiction. Time is devoted to vocabulary development throughout the course. Students are strongly encouraged to read at least one book during the summer. A reading assignment may be required each nine-weeks.

<b>Pre-AP ENGLISH 1</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>9</b>	<b>GPA Level:</b>	<b>5 point</b>
<b>Pre-Requisite:</b>	<b>None</b>		

*Requires a Pre-AP/AP Course Agreement.* In addition to the requirements for English I, students will analyze narrative, expository, and persuasive texts in order to determine author's style, purpose, and theme. Emphasis in composition is on elevating writing through proper use of mechanics, syntax, punctuation, and depth of thought. Major emphasis is on the development of critical thinking skills. A reading assignment may be required each nine-weeks. There is also a required summer assignment.

<b>ENGLISH 2</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>10</b>	<b>GPA Level:</b>	<b>4 point</b>
<b>Pre-Requisite:</b>	<b>English 1</b>		

English II covers all areas of mechanics, usage, composition, vocabulary, and literature for effective communication. Emphasis in composition is on the development and expansion of expository paragraphs and themes. There will be an assignment of a limited topic research paper/project. Students are strongly encouraged to read at least one book during the summer. A reading assignment may be required each nine-weeks.

<b>Pre-AP ENGLISH 2</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>10</b>	<b>GPA Level:</b>	<b>5 point</b>
<b>Pre-Requisite:</b>	<b>English 1</b>		

*Requires a Pre-AP/AP Course Agreement.* English II Pre-AP is similar to a senior-level English course. Students must have a strong interest in the English language and be willing to commit to required reading and writing necessary to be successful in this course. In addition to the requirements for English II, this course is designed to lead into Advanced Placement courses that involve effective writing and reading skills. Major emphasis is on the development of critical thinking and vocabulary skills.

Students are involved in independent research projects. They will be able to write mechanically sound, logically organized, clearly conceptualized, and well-documented essays. A reading assignment may be required each nine-weeks. There is also a required summer assignment.

**ENGLISH 3**

**Grade Level:** 11  
**Pre-Requisite:** English 2

**Credit:** 1  
**GPA Level:** 4 point

This course integrates reading, language skills, composition, literature, and includes representative writers, social thought, and genre of the major periods of American Literature. The student is acquainted with the rhetorical devices appropriate to various forms of informative, persuasive, and literary discourse. Several major works of American Literature are considered. Students in this program will be able to write well-documented essays and research projects. A reading assignment may be required each nine-weeks.

**AP ENGLISH 3: Language & Composition**

**Grade Level:** 11  
**Pre-Requisite:** English 2

**Credit:** 1  
**GPA Level:** 5 point

*Requires a Pre-AP/AP Course Agreement.* Students must have a strong interest in the English language and be willing to commit to required reading and writing necessary to be successful in this course. In addition to the requirements for English 3, this course includes extensive analysis of language and writing instruction, and practice. Formal and informal research is assigned. Preparation for the AP English Language and Composition exam is an integral part of this college level curriculum. Emphasis in composition is on the writing process: pre-writing, writing, revising, editing, and publishing. At the conclusion of this course, students will be encouraged to take the English III AP exam (**approximate cost \$95**), and, depending on their scores, receive college credit. Students who score a 3 or higher on this exam may use this as a Performance Acknowledgement for their graduation plan. There is also a required summer assignment.

**DUAL: CISD – ENGLISH 3 (A)**

**Collin – ENGL 1301 Composition 1**  
**Grade Level:** 11  
**Semester:** 1  
**Pre-Requisite:** College readiness or TSI Assessment  
**Subject to Collin College admissions, tuition and fees**

**Credit:** .5  
**College Hrs:** 3  
**GPA Level:** 5 point

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis is placed on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis. Lab required. Students must remain in and pass this course with a 70 for the entire semester in order to receive both college and/or high school hours/credit. Classes are offered here on campus during the school day, but taught by college personnel. Admissions fees and lab fees apply according to college admissions policies. Students who score a 3 (B) or higher in this course can use this towards a Performance Acknowledgement on their graduation plan. You must see the high school counselor or principal for appropriate dual enrollment forms, and meet the college enrollment deadlines to be enrolled in this course. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook.**

<b>DUAL: CISD – ENGLISH 3 (B)</b>	<b>Credit: .5</b>
<b>Collin – ENGL 1302 Composition 2</b>	<b>College Hrs: 3</b>
<b>Grade Level: 11</b>	<b>GPA Level: 5 point</b>
<b>Semester: 2</b>	
<b>Pre-Requisite: College readiness or TSI Assessment</b>	
<b>Subject to Collin College admissions, tuition and fees</b>	
<b>ENGL 1301 Composition 1</b>	

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis is placed on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions. Students must remain in and pass this course with a 70 for the entire semester in order to receive both college and/or high school hours/credit. Classes are offered here on campus during the school day, but taught by college personnel. Admissions fees and lab fees apply according to college admissions policies. Students who score a 3 (B) or higher in this course can use this towards a Performance Acknowledgement on their graduation plan. You must see the high school counselor or principal for appropriate dual enrollment forms, and meet the college enrollment deadlines to be enrolled in this course. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook.**

<b>ENGLISH 4</b>	<b>Credit: 1</b>
<b>Grade Level: 12</b>	<b>GPA Level: 4 point</b>
<b>Pre-Requisite: English 3</b>	

This course includes representative writers, social thought, and genre of the major periods of British Literature. Students are required to read a variety of classic and contemporary narrative and expository texts. Research, writing instruction, and vocabulary study comprise other aspects of this course. Students are strongly encouraged to read at least one book during the summer. A reading assignment may be required each nine-weeks.

<b>BUSINESS ENGLISH</b>	<b>Credit: 1</b>
<b>Grade level: 12</b>	<b>GPA Level: 4 point</b>
<b>Pre-Requisite: English 3</b>	<b>(if used as a 4th</b>
<b>Recommended Pre-Req: BIM 1</b>	<b>English credit)</b>

This course is a Career and Technology Business Management & Administration course that can be used as a 4th year English class. Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. They will apply technical skills to address business applications of emerging technologies; enhance reading, writing, computing, communication and reasoning skills and apply them to the business environment; plan, draft, edit, and complete written compositions; proof compositions for clarity, engaging language, and the correct use of the conventions and mechanics of the written English language, and produce final, error-free drafts for business reproduction.

<b>AP ENGLISH 4: Literature &amp; Composition</b>	<b>Credit: 1</b>
<b>Grade Level: 12</b>	<b>GPA Level: 5 point</b>
<b>Pre-Requisite: English 3</b>	

*Requires a Pre-AP/AP Course Agreement.* Students must have a strong interest in the English language and be willing to commit to required reading and writing necessary to be successful in

this course. In addition to the requirements for English 4, this course includes extensive study of literary terminology, writing instruction and practice, and analysis of classic novels, drama, and poems. Preparation for the AP English Literature and Composition exam is an integral part of this college-level curriculum. Writing assignments will focus on the critical analysis of literature and will include expository, analytical, and argumentative essays. Emphasis will be placed on helping students develop stylistic maturity, which involves a wide-ranging vocabulary and an effective use of rhetoric to a level commensurate with the skills expected of a 2nd semester college freshman (English 1302). Independent research is mandatory. At the conclusion of this course, students will be encouraged to take the English IV AP exam (**approximate cost \$95**) and, depending on their scores, receive college credit. Students who score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan. There is also a required summer assignment.

<b>DUAL: CISD – ENGLISH 4 (A)</b>	<b>Credit: .5</b>
<b>Collin – ENGL 2332 World Lit I</b>	<b>College Hrs: 3</b>
<b>Grade Level: 12</b>	<b>GPA Level: 5 point</b>
<b>Semester: 1</b>	
<b>Pre-Requisite: Subject to Collin College admissions, tuition and fees</b>	
	<b>ENGL 1302- Composition 2</b>

This is a survey of world literature from the ancient world through the sixteenth century. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Students must remain in and pass this course with a 70 for the entire semester in order to receive both college and/or high school hours/credit. Classes are offered here on campus during the school day, but taught by college personnel. Admissions fees and lab fees apply according to college admissions policies. Students who score a 3 (B) or higher in this course can use this towards a Performance Acknowledgement on their graduation plan. You must see the high school counselor or principal for appropriate dual enrollment forms, and meet the college enrollment deadlines to be enrolled in this course. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook.**

<b>DUAL: CISD – ENGLISH 4 (B)</b>	<b>Credit: .5</b>
<b>Collin – ENGL 2333 World Lit II</b>	<b>College Hrs: 3</b>
<b>Grade Level: 12</b>	<b>GPA Level: 5 point</b>
<b>Semester: 2</b>	
<b>Pre-Requisite: Subject to Collin College admissions, tuition and fees</b>	
	<b>ENGL 2332 – World Lit I</b>

This is a survey of world literature from the seventeenth century to the present. Students will study works of prose, poetry, drama, and fiction in relation to their historical and cultural contexts. Texts will be selected from a diverse group of authors and traditions. Students must remain in and pass this course with a 70 for the entire semester in order to receive both college and/or high school hours/credit. Classes are offered here on campus during the school day, but taught by college personnel. Admissions fees and lab fees apply according to college admissions policies. . Students who score a 3 (B) or higher in this course can use this towards a Performance Acknowledgement on their graduation plan. You must see the high school counselor or principal for appropriate dual enrollment forms, and meet the college enrollment deadlines to be enrolled in this course. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook.**

**PROFESSIONAL COMMUNICATIONS (Speech)** **Credit: .5**  
**Grade Level: 9 or 10**  
**Pre-Requisite: None**

This course is a Career and Technology Arts, AV Technology & Communication course that meets the graduation requirement for Speech. Professional Communications blends written, oral, and graphic communications in a career-based environment. Careers in the global economy require individuals to be creative and have a strong background in computer and technology applications, a strong and solid academic foundation, and a proficiency in professional oral and written communications. Within this context, students will be expected to develop and expand their ability to write, read, edit, speak, listen, apply software applications, manipulate computer graphics, and conduct research.

**COLLEGE PREP ENGLISH/LANGUAGE ARTS** **Credit: 1**  
**Grade Level: 12** **GPA Level: 4 point**  
**Pre-Requisite: English 3**

This is a course offered to students in the 12<sup>th</sup> grade whose performance on end of course exams, college entrance exams, coursework, or other assessments indicate the student is not ready to perform entry-level college coursework. This course may be used as a fourth English credit.

### English Electives

**JOURNALISM** **Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: None**

Students plan, draft, and publish articles for various sections of the paper. Students must be able to adapt to different writing styles in order to fulfill the requirements for the various sections of the paper. They will learn journalistic traditions, as well as apply research skills to develop articles. Students should have an interest in current events and have a working knowledge of different publishing tools used on the computer. They should enjoy writing, have strong grammar skills, and like to work under the pressure of deadlines. Students are required to have an AUP card issued from the school to be able to do research on the Internet.

**ADV JOURNALISM – NEWSPAPER 1** **Credit: 1**  
**Grade Level: 10-12**  
**Pre-Requisite: Journalism, Teacher Approval**

**ADV JOURNALISM – NEWSPAPER 2** **Credit: 1**  
**Grade Level: 11-12**  
**Pre-Requisite: Newspaper 1**

**ADV JOURNALISM – NEWSPAPER 3** **Credit: 1**  
**Grade Level: 12**  
**Pre-Requisite: Newspaper 2**

This course is designed to build on the curriculum taught in Journalism. Students in this class will be responsible for the publication of the school newspaper.

<b>ADV JOURNALISM – BROADCAST 1</b>	<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>10-12</b>	
<b>Pre-Requisite:</b>	<b>Journalism, BIM 1, or Princ of Art/AV Techn Teacher Approval</b>	
<b>ADV JOURNALISM – BROADCAST 2</b>	<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>11-12</b>	
<b>Pre-Requisite:</b>	<b>Broadcast 1</b>	
<b>ADV JOURNALISM – BROADCAST 3</b>	<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>12</b>	
<b>Pre-Requisite:</b>	<b>Broadcast 2</b>	

This course is designed to teach students to become critical viewers, consumers, and producers of media. They will gain the ability to access, analyze, evaluate, and produce communication in a variety of forms. Students enrolled in this course will apply and use their journalistic skills for a variety of purposes. Students will learn the laws and ethical considerations that affect broadcast journalism; learn the role and function of broadcast journalism; critique and analyze the significance of visual representations; and learn to produce by creating a broadcast journalism product.

<b>ADV JOURNALISM – YEARBOOK 1</b>	<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>10-12</b>	
<b>Pre-Requisite:</b>	<b>Journalism, BIM 1 or Princ of Art/AV Techn Teacher Approval</b>	

Students will work to produce the school yearbook and will thereby explore the elements and processes of mass print media, specifically of magazine-type journalistic products. Proficiency in word processing, copy writing, and photography would be helpful. Students must be willing to attend evening events and to spend additional time to ensure that assignments are completed in time to meet deadlines. Must commit to the time required by signing a student/parent agreement and, in most cases, must have transportation to be able to cover certain school events.

<b>ADV JOURNALISM – YEARBOOK 2</b>	<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>11-12</b>	
<b>Pre-Requisite:</b>	<b>Yearbook 1</b>	
<b>ADV JOURNALISM – YEARBOOK 3</b>	<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>12</b>	
<b>Pre-Requisite:</b>	<b>Yearbook 2</b>	

This course is designed to build on the curriculum taught in Yearbook 1. Second and third year students will be expected to take on leadership roles such as student editor, assistant editor, coordinating different sections of the yearbook, or managing ad sales.

<b>DEBATE 1</b>	<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>9-12</b>	
<b>Pre-Requisite:</b>	<b>None</b>	

This competitive events course is valuable for those students interested in higher education especially, but not limited to, careers in law, business or politics. It prepares students for interscholastic competition in team debate, Lincoln-Douglas debate, and extemporaneous speaking. The course will require considerable research during school and on the student's own time. When researching, the student will need to utilize school, public, and college libraries. It will also require written composition of affirmative cases and negative blocks, and other original



persuasive speeches. Students will be required to develop and maintain files on the debate resolution. Tournament competition is a requirement of this course.

<b>DEBATE 2</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>10-12</b>		
<b>Pre-Requisite:</b>	<b>Debate 1</b>		
<b>DEBATE 3</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>11-12</b>		
<b>Pre-Requisite:</b>	<b>Debate 2</b>		
<b>INDEPENDENT STUDY: SPEECH (DEBATE 4)</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>12</b>		
<b>Pre-Requisite:</b>	<b>Debate 3</b>		

### **Mathematics Multidisciplinary Studies & STEM Areas**

Four years of Math are currently recommended for graduation from Celina High School. Algebra I taken at the junior high school level **does count** towards high school credit, but **does not** count toward high school GPA. No mathematics courses are to be taken without the required prerequisites. A maximum of two mathematics courses may be taken concurrently with the approval of the principal and the math teachers whose courses are being taken.

#### ***Recommended Sequences of Mathematics Course*** **(Must be successful in Algebra 2 to earn a Distinguished Level of Achievement)**

#### **For STEM Endorsement** (requires Chemistry & Physics)

Algebra 1	Algebra 1	Algebra 1 – 8 <sup>th</sup> grade
Geometry	Geometry	Geometry Pre-AP
Algebraic Reasoning	Algebra 2	Algebra 2 Pre-AP
Financial Math	Pre-Calculus	Pre-Calculus Pre-AP
		AP Calculus or
		Dual Statistics

<b>ALGEBRA 1</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>8 or 9</b>	<b>GPA Level:</b>	<b>4 point</b>
<b>Pre-Requisite:</b>	<b>8th grade math</b>		

This course will continue to build on the basic mathematical understandings developed in grades K-8. Students will use symbols in a variety of ways to study relationships among quantities, particularly relationships in which there exists a systematic dependence of one quantity on another. Algebra 1 includes the study of equations, equalities and inequalities in one and two variables, exponents, polynomials, and factoring. The course emphasizes basic algebraic reasoning. It also addresses functions, graphing of linear equations, radicals, quadratics, and algebraic and exponential functions.

<b>Pre-AP ALGEBRA 1</b>		<b>Credit:</b>	<b>1</b>
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**Grade Level:** 9 **GPA Level:** 5 point  
**Pre-Requisite:** 8th-grade math

*Requires a Pre-AP/AP Course Agreement.* This course covers the same concepts as those taught in Algebra 1 but proceeds into advanced problem solving and applications. The course will require 3 to 5 hours of problem-solving per week outside the classroom.

**GEOMETRY** **Credit:** 1  
**Grade Level:** 9 – 10 **GPA Level:** 4 point  
**Pre-Requisite:** Algebra I

Geometry consists of the study of geometric figures of zero, one, two, and three dimensions and the relationships among them. Students' study properties and relationships having to do with are size, shape, location, direction, and orientation of these figures. The primary topics to be studied are mathematical structures, transformations, triangles, circles, planar figures, and solid figures. Students will develop deductive and inductive reasoning skills as demonstrated by writing formal proofs.

**Pre-AP GEOMETRY** **Credit:** 1  
**Grade Level:** 9 – 10 **GPA Level:** 5 point  
**Pre-Requisite:** Algebra I

*Requires a Pre-AP/AP Course Agreement.* The content of this course matches the Geometry course content but with a greater emphasis on justification and proof, area and volume, and problem-solving techniques. This course will develop the student's ability to discover, organize, and reason. Students who enroll in this course must be willing to commit to a minimum of 3.75 hours per week outside the classroom problem-solving.

**ALGEBRAIC REASONING** **Credit:** 1  
**Grade Level:** 10 – 11 **GPA Level:** 4 point  
**Pre-Requisites:** Algebra 1, Geometry

Students will build on the knowledge and skills gained in Algebra 1 and continue with the development of mathematical reasoning related to algebraic understandings and processes, and deepen a foundation for studies in subsequent mathematics courses. Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools that build to workforce and college readiness. This course is taken after Algebra 1 and Geometry. It is not open to students who have completed Algebra 2.

**ALGEBRA 2** **Credit:** 1  
**Grade Level:** 10 – 12 **GPA Level:** 4 point  
**Pre-Requisite:** Algebra 1, Geometry

This course continues the study from Algebra I of linear functions and inequalities. It includes the study of complex numbers as a mathematical system, the study of quadratic, polynomial, rational, exponential, and logarithmic functions, the study of matrices and conic sections, and the study of series and sequences. Algebra 2 also provides an opportunity for students to make

connections between algebra and geometry and use the tools of one to help solve problems in the other. Once you have taken Algebra 2, you cannot go back to Math Models.

**Pre-AP ALGEBRA 2**

**Grade Level:** 10 – 12  
**Pre-Requisite:** Algebra 1, Geometry

**Credit:** 1  
**GPA Level:** 5 point

*Requires a Pre-AP/AP Course Agreement.* The curriculum of this course follows that of Algebra II but includes a more in-depth study of polynomial functions, parametric equations and a study of rational functions, logarithms and applications. Students will be expected to spend a minimum of 3.75 hours per week on problem solving outside the classroom. Once you have taken Algebra 2, you cannot go back and take Math Models.

**FINANCIAL MATH**

**Grade Level:** 11-12  
**Pre-Requisite:** Algebra 1, Geometry

**Credit:** 1  
**GPA Level:** 4 point  
**(if used as a Math Credit)**

Financial Mathematics is a Career and Technology Education Finance course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. This course will integrate career and postsecondary education planning into financial decision making. When possible, students will apply mathematics to problems arising in everyday life, society, and the workplace. Students will use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution.

**PRE-CALCULUS**

**Grade Level:** 11 – 12  
**Pre-Requisite:** Algebra 1, Geometry, Algebra 2

**Credit:** 1  
**GPA Level:** 4 point

This course is designed to prepare the math student for Calculus and other traditional college/university level courses by covering topics such as problem-solving and theory. Students should have strong mathematical ability and be able to commit a minimum of 5-7 hours per week to problem-solving outside the classroom. It is strongly recommended that students have an overall average of 80 in their previous Algebra 2 class or have the recommendation of their current math teacher before taking this class.

**Pre-AP PRE-CALCULUS**

**Grade Level:** 11 - 12  
**Pre-Requisite:** Algebra 1, Geometry, Algebra 2

**Credit:** 1  
**GPA Level:** 5 point

*Requires a Pre-AP/AP Course Agreement.* This course is designed to prepare the math student for AP Calculus, the AP Calculus exam, and other traditional college or university level courses. The course covers all topics included in Pre-Calculus with more emphasis on applications, problem-solving, and theory. Students should have strong mathematical ability and be able to commit a minimum of 7 hours per week to problem-solving outside the classroom. It is strongly recommended that students have an overall average of 85 in Algebra 2 and have passed the previous math EOC test, and/or have the recommendation of their previous math teacher before taking this class.

<b>DUAL: CISD – Statistics (A)</b>	<b>Credit: .5</b>
<b>Collin – MATH 1314 College Algebra</b>	<b>College Hrs: 3</b>
<b>Grade Level: 12</b>	<b>GPA Level: 5 point</b>
<b>Semester: 1</b>	
<b>Pre-Requisite: College readiness or TSI Assessment</b>	
<b>Subject to Collin College admissions, tuition and fees</b>	

***To receive high school credit for Statistics, students must also take and pass the MATH 1342 Elementary Statistical college course offered in the 2<sup>nd</sup> semester.*** In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included. Graphing calculator required. Lab required. Students must remain in and pass this course with a 70 for the entire semester in order to receive both college and/or high school hours/credit. Classes are offered here on campus during the school day, but taught by college personnel. Admissions fees and lab fees apply according to college admissions policies. Students who score a 3 (B) or higher in this course can use this towards a Performance Acknowledgement on their graduation plan. You must see the high school counselor or principal for appropriate dual enrollment forms, and meet the college enrollment deadlines to be enrolled in this course. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook and calculator.**

<b>DUAL: CISD – Statistics (B)</b>	<b>Credit: .5</b>
<b>Collin – MATH 1342 Elementary Statistical Methods</b>	<b>College Hrs: 3</b>
<b>Grade Level: 12</b>	<b>GPA Level: 5 point</b>
<b>Semester: 2</b>	
<b>Pre-Requisite: College readiness or TSI Assessment</b>	
<b>Subject to Collin College admissions, tuition and fees</b>	
<b>MATH 1314 College Algebra</b>	

***To receive high school credit for Statistics, students must also take and pass the MATH 1314 College Algebra course offered in the 1<sup>st</sup> semester.*** Collection, analysis, presentation, and interpretation of data and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended. A Graphing calculator required. Lab required. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook and calculator.**

<b>AP CALCULUS AB</b>	<b>Credits: 1</b>
<b>Grade Level: 12</b>	<b>GPA Level: 5 point</b>
<b>Pre-Requisite: Pre-Calculus</b>	
<b>Recommended: Pre-AP Pre-Calculus</b>	

*Requires a Pre-AP/AP Course Agreement.* AP Calculus consists of a full academic year of work that is comparable to one semester of Calculus in colleges and universities. This course prepares the student to solve real-life problems as presented in engineering, economics, physical and life sciences, and mathematics. Topics include limits and their properties, differentiation and its applications, integration and its applications, integration techniques, differentiation, and integration of logarithmic, exponential, and other transcendental functions. Students enrolled in this course should have previously demonstrated mastery of the concepts taught in **advanced levels** of Algebra I, Geometry, Algebra 2, and Pre-Calculus which consists of trigonometry and elementary analysis. Students must have a strong mathematical ability, the desire to solve problems, and the commitment to devote a minimum of 7.5 hours per week to

problem-solving outside the classroom. Preparation for the AP Calculus exam is an integral part of the college-level curriculum. At the conclusion of this course, students will be encouraged to take the AP Calculus exam (**approximate cost \$95**). Depending on their score, students may receive college credit. Students that score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan.

**STATISTICS & BUSINESS DECISION MAKING**

**Grade Level:** 11-12  
**Pre-Requisite:** Algebra 2

**Credit:** 1  
**GPA Level:** 4 point  
**(if used as a Math Credit)**

This course is a Career and Technology Education Finance course that can be used as a 4th year math class. Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risks that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions and determine the appropriateness of methods used to collect data to ensure conclusions are valid. Students will use career planning concepts, tools, and strategies to explore careers in the area of risk management.

**COLLEGE PREP MATH**

**Grade Level:** 12  
**Pre-Requisite:** Algebra 1, Geometry

**Credit:** 1  
**GPA Level:** 4 point

This is for students in the 12th grade whose performance on end of course exams, college entrance exams, or other assessments indicates the student is not ready to perform entry-level college coursework. Topics include: real numbers, symbolic representation, graphing linear equations, basic Geometry, rational expressions and equations, and functions.

**Science  
 Multidisciplinary Studies & STEM area**

Four years of Science are currently recommended for graduation from Celina High School. No science courses are to be taken without the required prerequisites. A maximum of two science courses may be taken concurrently with the approval of the principal and the science teachers whose courses are being taken.

***Recommended Sequences of Science Courses***

**For STEM Endorsement  
 (requires Algebra 2)**

Biology  
 IPC  
 Chemistry  
 Anatomy & Physiology  
 AP Biology

Biology  
 Chemistry  
 Physics  
 Physics  
 Forensic Science

Biology Pre-AP  
 Chemistry Pre-AP  
 Physics Pre-AP &  
 Anatomy & Physiology  
 AP Chemistry

**BIOLOGY**

**Grade Level:** 9  
**Pre-Requisite:** None

**Credit:** 1  
**GPA Level:** 4 point

This course includes the study of cytology, plant and animal processes, genetics and ecology through both classroom and laboratory experience. It is intended to develop skills in the use of scientific methods, scientific attitudes, and relate the vast store of scientific knowledge to solving the difficult problems of today's world. Dissection is required.

**Pre-AP BIOLOGY**

**Grade Level: 9**

**Pre-Requisite: None**

**Credit: 1**

**GPA Level: 5 point**

*Requires a Pre-AP/AP Course Agreement.* This course is an intense study of Biology relationships, genetics, ecology, modern technology, laboratory skills, and scientific knowledge. A biochemical approach to the study of life functions is emphasized. Dissection is required. There may also be a required summer assignment.

**INTEGRATED PHYSICS & CHEMISTRY (IPC)**

**Grade Level: 10**

**Pre-Requisite: None**

**Credit: 1**

**GPA Level: 4 point**

This is a general introductory study of physics and chemistry that emphasizes laboratory investigations and the relationship of science to the world around us. This course makes extended use of the laboratory for hands-on skills that should enable the student to cope effectively with everyday problems relating to science in today's society. ***This course is NOT open to students who have successfully completed Chemistry or Physics.***

**CHEMISTRY**

**Grade Level: 10-11**

**Pre-Requisite: Biology and Algebra 1**

**Recommended Co-requisite: Algebra 2**

**Credit: 1**

**GPA Level: 4 point**

Chemistry is the study of composition and structure of matter and its changes. The course is designed to increase student awareness of the scientific world around them, to teach reasoning skills and understanding of chemical concepts. The course emphasizes laboratory measurements and observation and understanding of scientific material, rather than the memorization of facts. There will also be a study of commonplace issues that relate chemical concepts to environmental concerns, fuel sources, atmospheric conditions, and biochemical processes.

**Pre-AP CHEMISTRY**

**Grade Level: 10-11**

**Pre-Requisite: Biology and Algebra 1**

**Recommended Co-requisite: Algebra 2**

**Credit: 1**

**GPA Level: 5 point**

*Requires a Pre-AP/AP Course Agreement.* In addition to the description for Chemistry, this course will emphasize laboratory investigations, understanding chemical concepts, and reasoning skills. It is designed for the student who has shown exceptional ability in previous science classes and has demonstrated strong mathematical ability. Analytical skills and independent learning skills are emphasized to further prepare students for college or work in science-related fields. There may also be a required summer assignment.

**PHYSICS**  
**Grade Level:** 11-12  
**Pre-Requisite:** Algebra 1 and Chemistry

**Credit:** 1  
**GPA Level:** 4 point

*Credit may not be earned for both Physics and Principles of Technology to satisfy a science credit.* In Physics, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem-solving. Students study a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students who successfully complete Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical thinking skills.

**Pre-AP PHYSICS**  
**Grade Level:** 11-12  
**Pre-Requisite:** Algebra 1 and Chemistry

**Credit:** 1  
**GPA Level:** 5 point

*Requires a Pre-AP/AP Course Agreement. Credit may not be earned for both Physics and Principles of Technology to satisfy a science credit.* In addition to the description for Physics, this course will emphasize more laboratory investigations. This course will be taught at a much more rigorous level. There may also be a required summer assignment.

**PHYSICS: PRINCIPALS OF TECHNOLOGY**

**Grade Level:** 11-12  
**Pre-Requisite:** Biology and Algebra 1

**Credit:** 1  
**GPA Level:** 4 point  
(if used as a Science credit)

*Credit may not be earned for both Physics and Principles of Technology to satisfy a science credit.* In Principles of Technology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem-solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations using safe practices. **This course is a Career and Technical Education STEM course that may be used as a 3<sup>rd</sup> or 4<sup>th</sup> science course. To receive Science credit, students must meet a 40% lab and fieldwork requirement.**

**ANATOMY AND PHYSIOLOGY**  
**Grade Level:** 11-12  
**Pre-Requisite:** Biology, Chemistry and Physics

**Credit:** 1  
**GPA Level:** 4 point  
(if used as a Science credit)

Anatomy and Physiology is a detailed study of the systems of the human body. Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics that include: structures and functions of organs and systems and their interactions with each other and their environments and body processes that maintain homeostasis. **This course is a Career and Technical Education Health Sciences course that may be used as a 4th year science course. To receive Science credit, students must meet a 40% lab and fieldwork requirement.**

**FORENSIC SCIENCE** **Credit: 1**  
**Grade Level: 11 – 12** **GPA Level: 4 point**  
**Pre-Requisite: Biology and Chemistry** **(if used as a 4th Science credit)**

Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood splatter analysis. Students will learn the history, legal aspects, and career options for forensic science. **This course is a Career and Technical Education Public Safety course that may be used as a 4<sup>th</sup> or 5<sup>th</sup> science course. To receive Science credit, students must meet a 40% lab and fieldwork requirement.**

**AP BIOLOGY** **Credit: 1**  
**Grade Level: 11-12** **GPA Level: 5 point**  
**Pre-Requisite: Biology, Chemistry and Physics**

*Requires a Pre-AP/AP Course Agreement.* AP Biology is equivalent to a first-year college biology course. It is a rigorous study of biology. Discussion, scientific readings, research papers and laboratory investigations are used to study the concepts of cells, heredity, evolution, organisms, population and DNA. This course is designed to prepare students for the AP exam and will require 5-6 hours per week of preparation time outside of class. Students will be encouraged to take the AP exam at the conclusion of this course (**approximate cost \$95**). Depending on their scores, students may receive college credit. Students that score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan. There may also be a required summer assignment.

**AP CHEMISTRY** **Credit: 1**  
**Grade Level: 11-12** **GPA Level: 5 point**  
**Pre-Requisite: Biology, Chemistry, Physics and Algebra 2**

*Requires a Pre-AP/AP Course Agreement.* AP Chemistry, equivalent to a first-year college chemistry course, it is an in-depth study of the principles presented in Chemistry I, in addition to a thorough study of thermodynamics, kinetics, equilibrium, electrochemistry, qualitative analysis and organic chemistry. The class with lab time will involve students in design and investigation of advanced chemistry experiments. Experimentation will include solution preparation, qualitative and quantitative analyses and instrumentation. This course is designed to prepare students for the AP exam and will require 5-6 hours per week of preparation time. At the conclusion of this course, students will be encouraged to take the AP Chemistry exam (**approximate cost \$95**). Depending on their scores, students may receive college credit. Students who score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan. There may also be a required summer assignment.

**ADVANCED ANIMAL SCIENCE** **Credit: 1**  
**Grade Level: 12** **GPA Level: 4 point**  
**Pre-Requisite: Princ of Ag, Food, and Nat’l Resources** **(if used as a 4th**  
**Biology** **Science credt))**

This course is to prepare students in the field of animal science. Students will attain academic skills and knowledge related to animal systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. Students will examine the interrelatedness of human, scientific, and technological dimensions of livestock production.



Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. **This course is a Career and Technical Education Agriculture course that may be used as a 4<sup>th</sup> or 5<sup>th</sup> science course. To receive Science credit, students must meet a 40% lab and fieldwork requirement.** All required Agriculture and Science courses must be completed before taking this course.

**AP ENVIRONMENTAL SCIENCE** (FUTURE COURSE)  
**Grade Level:** 12 **Credit:** 1  
**Pre-Requisite:** Algebra 1, Biology, Chemistry, Physics **GPA Level:** 5 point

*Requires a Pre-AP/AP Course Agreement.* The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study yet there are several major unifying themes that cut across the many topics included in the study of environmental science. This course is designed to prepare students for the AP exam and will require 5-6 hours per week of preparation time outside of class. Students will be encouraged to take the AP exam at the conclusion of this course (**approximate cost \$95**). Depending on their scores, students may receive college credit. Students that score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan. There may also be a required summer assignment.

### **Social Studies Multidisciplinary Studies Endorsement**

Four years of Social Studies are currently required for graduation from Celina High School. They consist of the following:

#### ***Recommended Sequences of Social Studies Courses***

World Geography	AP Human Geography
World History	AP World History
US History	Dual Credit US History
US Government/Economics	Dual Credit US Gov/Econ

**WORLD GEOGRAPHY** **Credit:** 1  
**Grade Level:** 9 **GPA Level:** 4 point  
**Pre-Requisite:** None

This course introduces students to the physical and human world around them and helps develop the means to examine that world. World Geography studies the five themes of geography (location, place, region, movement, and human interaction and environment) and applies these themes to regions of the Earth. Facts and information on physical, cultural, political, and economic geography, as well as abundant opportunities to refine the content through the exercise of map and globe skills, reading skills, and thinking skills, will be provided to the student. In addition, students will be required to do outside research and study.

**AP HUMAN GEOGRAPHY****Grade Level: 9**  
**Pre-Requisite: None****Credit: 1**  
**GPA Level: 5 point**

*Requires a Pre-AP/AP Course Agreement.* Must be completed for 1 credit to be used as a substitute for World Geography. Students entering this course should be capable of reading and comprehending texts written at the college level. Specific topics in this course will include: problems of economic development and cultural change, consequences of population growth, changing fertility rates, international migration, impacts of technological innovation on transportation, communication, industrialization, and other aspects of human life, struggles over political power and control of territory, explanations of why location matters to agricultural land use, industrial development and urban problems, the role of climate change, and environmental abuses in shaping the human landscapes on Earth. Preparation for the AP Human Geography exam is an integral part of the college-level curriculum. At the conclusion of this course students will be encouraged to take the AP exam (**approximate cost \$95**). Depending on their scores, students could earn college credit based on this exam. Students who score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan. There also may be a required summer assignment.

**WORLD HISTORY****Grade Level: 10**  
**Pre-Requisite: None****Credit: 1**  
**GPA Level: 4 point**

This course gives students the opportunity to trace the historical development of human cultures from early civilization through the present. Topics also include the historical development of western civilization and other regions of the world, the geographical influences on world history, and developments of the twentieth century which includes World Wars I and II, The Great Depression, science and technology, and the adverse effects that communism, socialism, and fascism have had on individual freedom and liberty. In addition, students will be required to do a group project on major events.

**AP WORLD HISTORY****Grade Level: 10**  
**Pre-Requisite: None****Credit: 1**  
**GPA Level: 5 point**

*Requires a Pre-AP/AP Course Agreement.* AP World History provides the student with a learning experience equivalent to that obtained in most college introductory history courses. This course focuses on historical precedence for modern, current events, and refines academic skills such as writing, research, and the ability to analyze evidence. It includes a study on the different societies of the world and how they have developed and interacted throughout history. Students will examine, more in-depth, the impact of individuals and groups, the spread of ideas, religions, and value systems. Emphasis is placed on critical and evaluative thinking skills, essay writing, and the shaping of cultures. A college textbook is used in this course and the average assignment may consist of 10-12 pages. Preparation for the AP World History exam is an integral part of the college-level curriculum. At the conclusion of this course, students will be encouraged to take the AP World History exam (**approximate cost \$95**). Depending on their scores, students could earn college credit based on this exam. Students who score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan. There also may be a required summer assignment.

**UNITED STATES HISTORY****Grade Level: 11****Pre-Requisite: None****Credit: 1****GPA Level: 4 point**

During this course, the history of the United States from 1877 to the present time is surveyed. Topics included in this study are the emergence of the United States as a world power, the geographical influences on historical events, the economic development and growth of the United States, social and cultural developments of the United States, and the evolution of the political processes since the Civil War.

**AP UNITED STATES HISTORY****Grade Level: 11****Pre-Requisite: None****Credit: 1****GPA Level: 5 point**

*Requires a Pre-AP/AP Course Agreement.* AP US History provides the student with a learning experience equivalent to that obtained in most college introductory US History courses. It is a survey of United States history from the colonial period to the present. Solid reading and writing skills, along with a willingness to devote considerable time to homework and study, are necessary to succeed. Emphasis is placed on critical and evaluative thinking skills, essay writing, and interpretation of original documents. A college textbook is used in the course and an average assignment consists of 10-12 pages. Students will also be trained in note-taking skills, as most of the classes are lectures. Preparation for the AP US History exam is an integral part of the college-level curriculum. At the conclusion of this course students will be encouraged to take the AP United States History exam (**approximate cost \$95**). Depending on their scores, students can earn college credit based on this exam. Students who score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan. There may also be a required summer assignment.

**DUAL: CISD – US History (A)****Collin – HIST 1301 US History 1****Grade Level: 11****Semester: 1****Pre-Requisite: College readiness or TSI Assessment****Subject to Collin College admissions, tuition and fees****Credit: .5****College Hrs: 3****GPA Level: 5 point**

A survey of the social, political, economic, cultural, and intellectual history of the United States from the pre-Columbian era to the Civil War/Reconstruction period. United States History I includes the study of pre-Columbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government. Students must remain in and pass this course with a 70 for the entire semester in order to receive both college and/or high school hours/credit. Classes are offered here on campus during the school day, but taught by college personnel. Admissions fees and lab fees apply according to college admissions policies. Students who score a 3 (B) or higher in this course can use this towards a Performance Acknowledgement on their graduation plan. You must see the high school counselor or principal for appropriate dual enrollment forms, and meet the college enrollment deadlines to be enrolled in this course. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook.**

**DUAL: CISD – US History (B)** **Credit: .5**  
**Collin – HIST 1302 US History 2** **College Hrs: 3**  
**Grade Level: 11** **GPA Level: 5 point**  
**Semester: 2**  
**Pre-Requisite: College readiness or TSI Assessment**  
**Subject to Collin College admissions, tuition and fees**

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy. Students must remain in and pass this course with a 70 for the entire semester in order to receive both college and/or high school hours/credit. Classes are offered here on campus during the school day, but taught by college personnel. Admissions fees and lab fees apply according to college admissions policies. Students who score a 3 (B) or higher in this course can use this towards a Performance Acknowledgement on their graduation plan. You must see the high school counselor or principal for appropriate dual enrollment forms, and meet the college enrollment deadlines to be enrolled in this course. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook.**

**UNITED STATES GOVERNMENT** **Credit: .5**  
**Grade Level: 12** **GPA Level: 4 point**  
**Pre-Requisite: None**

This course is designed to provide the student with an understanding of the functions of the United States, Texas, and local governments. Topics include the foundations and development of the United States governmental system, the purpose and philosophies of the United States Constitution, Bill of Rights and Declaration of Independence, and functions of governments at the federal, state, and local levels. The responsibilities of American citizenship will be emphasized.

**ECONOMICS** **Credit: .5**  
**with Emphasis on the Free Enterprise System** **GPA Level: 4 point**  
**Grade Level: 12**  
**Pre-Requisite: None**

This course is designed to provide the student with an understanding of the basic economic system of the United States. Emphasis is on the theory of supply and demand, price factors of production, income distribution, the organization and functions of the Federal Reserve System and government regulation of the market system. Comparative economic systems are studied.

**DUAL: CISD – US Government** **Credit: .5**  
**Collin – GOVT 2305 Federal Government** **College Hrs: 3**  
**Grade Level: 12** **GPA Level: 5 point**  
**Semester: 1**  
**Pre-Requisite: College readiness or TSI Assessment**  
**Subject to Collin College admissions, tuition and fees**

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties and civil rights. Students must remain in and pass this course with a 70 for the entire semester in order to receive both college and/or high school hours/credit. Classes are offered here on campus during the school day, but taught by college personnel. Admissions fees and lab fees apply according to college admissions policies. Students who score a 3 (B) or higher in this course can use this towards a Performance Acknowledgement on their graduation plan. You must see the high school counselor or principal for appropriate dual enrollment forms, and meet the college enrollment deadlines to be enrolled in this course. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook.**

<b>DUAL: CISD – Economics and the Free Enterprise System</b>	<b>Credit: .5</b>
<b>Collin – ECON 2301 Principles of Macroeconomics</b>	<b>College Hrs: 3</b>
<b>Grade Level: 12</b>	<b>GPA Level: 5 point</b>
<b>Semester: 2</b>	
<b>Pre-Requisite: College readiness or TSI Assessment</b>	
<b>Subject to Collin College admissions, tuition and fees</b>	
<b>Algebra 2 and English 3</b>	

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy. Students must remain in and pass this course with a 70 for the entire semester in order to receive both college and/or high school hours/credit. Classes are offered here on campus during the school day, but taught by college personnel. Admissions fees and lab fees apply according to college admissions policies. Students who score a 3 (B) or higher in this course can use this towards a Performance Acknowledgement on their graduation plan. You must see the high school counselor or principal for appropriate dual enrollment forms, and meet the college enrollment deadlines to be enrolled in this course. **Tuition for Collin College courses is approximately \$170 per semester and possibly the cost of a textbook.**

<b>PERSONAL FINANCIAL LITERACY</b>	<b>Credit: .5</b>
<b>Grade Level: 11-12</b>	

Students will develop the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility. Students will learn to apply critical-thinking and problem solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting. This course includes instruction in methods of paying for college and other postsecondary education and training along with completing the application for federal student aid provided by the US Department of Education.

### **Languages Other Than English Arts & Humanities Endorsement Area**

Two years of a Foreign Language are currently required for graduation from Celina High School. Students must complete at least two years in the same language to meet this requirement.

Students who complete all four levels of the same Foreign Language as well as the remainder of the graduation requirements will earn an Arts and Humanities endorsement.

**SPANISH 1** **Credit: 1**  
**Grade Level: 8-11**  
**Pre-Requisite: None**

Spanish 1 is an introduction to the four basic communicative skills of reading, writing, listening, and speaking, with an emphasis on speaking and vocabulary development. A thorough introduction to the sound system, the development of language skills and learning techniques are emphasized as students are introduced to Spanish grammar and Hispanic culture.

**SPANISH 2** **Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: Spanish 1**

Students continue to develop oral communication skills, vocabulary and grammar, with the major emphasis falling on reaching the intermediate proficiency level in speaking and listening. Vocabulary is taught in thematic units with speaking, reading and grammar objectives that are appropriately functional for each theme such as shopping, ordering in a restaurant, reading menus, describing, and communicating with people in everyday situations. Culturally, students are introduced to Hispanic history and geography.

**PRE-AP SPANISH 2** **Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: Spanish 1**

*Requires a Pre-AP/AP Course Agreement.* Students in Pre-AP Spanish 2 are those who intend on continuing in Spanish classes to Spanish 3 and 4. They will continue to attain a measurable degree of proficiency as they move to the upper levels.

**PRE-AP SPANISH 3** **Credit: 1**  
**Grade Level: 10-12**  
**Pre-Requisite: Spanish 2**

*Requires a Pre-AP/AP Course Agreement.* Students in Spanish 3 should have reached the intermediate proficiency level. They will continue to attain a measurable degree of proficiency as they move from intermediate low to the intermediate mid-levels of proficiency in the four communication skills. Use of technology is incorporated into the curriculum at this level with students preparing presentations on a variety of topics. The history and culture of Spain are emphasized, as well as new grammatical concepts that provide students with the opportunity to broaden their communication skills by speaking in past and future tenses.

**AP SPANISH 4** **Credit: 1**  
**Grade Level: 11-12**  
**Pre-Requisite: Spanish 3**

*Requires a Pre-AP/AP Course Agreement.* Spanish 4 is a continuation of the same skills and concepts learned in Spanish 3 with an emphasis on new themes and topics, as well as

development of proficiency in more sophisticated situations. Students at this level should become fully proficient at the intermediate mid to high level and be able to use Spanish in almost any travel situation. The history and culture of Latin America are emphasized as students develop grammatical accuracy. Preparation for the AP Spanish exam is an integral part of this college-level curriculum. At the conclusion of this course, students will be encouraged to take the AP Spanish exam (**approximate cost \$95**). Depending on their scores, students could receive college credit. Students who score a 3 or higher on the exam may use this as a Performance Acknowledgement on their graduation plan. There may be a required summer assignment.

## **Physical Education, Athletics & Waivers**

Celina High School and the Texas Education Agency allow students to substitute certain physical activities for the one required unit of physical education. Such substitutions shall be based upon the physical activity involved in drill team, marching band, and cheerleading during the fall semester only.

Students may earn a maximum of one physical education credit per year, and a maximum of .5 credits per semester. In physical education, students acquire the knowledge and skills for movement that provide the foundation for enjoyment and continued social development through physical activity and access to a physically active lifestyle. The student will understand the relationship between physical activity and health throughout their life span.

**FOUNDATIONS OF PERSONAL FITNESS (PE 1) Credit: 1**  
**Grade Level: 9-10**  
**Pre-Requisite: None**

The basic purpose of this course is to motivate students to strive for lifetime personal fitness with an emphasis on health-related components of physical fitness. The concept of wellness, or striving to reach optimal levels of health, is the corner stone of this course.

**ADVENTURE/OUTDOOR EDUCATION (PE 2) Credit: 1**  
**Grade Level: 9-10**  
**Pre-Requisite: Foundations of Personal Fitness (PE 1)**

Aerobic activities, individual and team sports will be the major emphasis in Adventure/Outdoor Education. Students will obtain awareness and knowledge of family and physical recreation activities.

**BOY'S ATHLETICS Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: Physical**

Students who score a 70 or more will receive 1 credit for each year of participation.

**GIRL'S ATHLETICS Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: Physical**

Students who score a 70 or more will receive 1 credit for each year of participation.

**MARCHING BAND (PE Waiver -fall only)** **Credit: .5**  
**Grade Level: 9-12**  
**Pre-Requisite: None**

Students who score a 70 or more will receive ½ credit of PE in the Fall only. May use this waiver only twice for a total of 1 full credit of PE.

**CHEERLEADING (PE Waiver-fall only)**  
**or**  
**DRILL TEAM (PE Waiver-fall only)** **Credit: .5**  
**Grade Level: 9-12**  
**Pre-Requisite: by tryout only**

Students who make the cheerleading squad or the Drill Team and score a 70 or more will receive ½ credit of PE in the Fall only. May use this waiver only twice for a total of 1 full credit of PE. Cheerleading and Drill Team activities are held outside of the school day.

**Fine Arts**  
**Art & Humanities Endorsement Area**

One credit of Fine Arts is currently required for graduation from Celina High School. Any of the beginner courses listed in this section will meet that Fine Art requirement. Students planning to earn an Arts & Humanities endorsement in Fine Arts must complete a coherent sequence of four credits from only one or two disciplines in Fine Arts: Art, Dance, Music, or Theater.

<b>BAND 1</b>		<b>Credit: 1</b>
<b>Grade Level:</b>	<b>9-12</b>	
<b>Pre-Requisite:</b>	<b>Auditions</b>	
<b>BAND 2</b>		<b>Credit: 1</b>
<b>Grade Level:</b>	<b>10-12</b>	
<b>Pre-Requisite:</b>	<b>Band 1</b>	
<b>BAND 3</b>		<b>Credit: 1</b>
<b>Grade Level:</b>	<b>11-12</b>	
<b>Pre-Requisite:</b>	<b>Band 2</b>	
<b>BAND 4</b>		<b>Credit: 1</b>
<b>Grade Level:</b>	<b>12</b>	
<b>Pre-Requisite:</b>	<b>Band 3</b>	

Bobcat Band is a performance organization that performs at UIL contests, athletic events, and several concerts each year at Celina High School. Participants are expected to organize and rehearse as announced prior to the beginning of the school year. Marching season rehearsals begin at 7:00 a.m. There will be one evening rehearsal per week. Concert season rehearsals begin at 7:45 a.m. Students are expected to attend other rehearsals as announced. Students in grades 9-12 are eligible for membership in the Symphonic Band during both semesters. Enrollment will be determined through auditions. Auditions will be held in the spring, summer, and by appointment with the director.

**CHOIR 1** **Credit: 1**



<b>Grade Level:</b>	<b>9-12</b>		
<b>Pre-Requisite:</b>	<b>None</b>		
<b>CHOIR 2</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>10-12</b>		
<b>Pre-Requisite:</b>	<b>Choir 1</b>		
<b>CHOIR 3</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>11-12</b>		
<b>Pre-Requisite:</b>	<b>Choir 2</b>		
<b>CHOIR 4</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>12</b>		
<b>Pre-Requisite:</b>	<b>Choir 3</b>		

This is a performance-based choir. Members are to participate in all rehearsals and performances. There are UIL contests and several performances throughout the school year. In music, students develop creative expression by applying music literacy and the critical thinking skills of music to sing, play, read, write, and/or move. Students explore the relevance of music to history, culture, and the relationship of music to other academic disciplines and the vocational possibilities offered. There is a \$65 cost for uniform rentals, a t-shirt, and supplies.

<b>VOCAL ENSEMBLE 1</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>10-12</b>		
<b>Pre-Requisite:</b>	<b>Choir 1, audition</b>		
<b>VOCAL ENSEMBLE 2</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>11-12</b>		
<b>Pre-Requisite:</b>	<b>Vocal Ensemble 1</b>		
<b>VOCAL ENSEMBLE 3</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>12</b>		
<b>Pre-Requisite:</b>	<b>Vocal Ensemble 2</b>		

This choir is a Varsity level performance-based choir. Members are to participate in all rehearsals and performances and prepare to take on leadership roles. The foundation of music literacy is fostered through reading, writing, reproducing, and creating music. Students will study choral methods by taking an advanced look into music literature, practices and performance of choral music, as well as some conducting. This choir also doubles as a Madrigal Ensemble that competes in UIL solo and small ensemble contests. There is a \$65 cost for uniform rental, a t-shirt, and supplies.

<b>AP MUSIC THEORY</b>		<b>Credit:</b>	<b>1</b>
<b>Grade Level:</b>	<b>10-12</b>		
<b>Pre-Requisite:</b>	<b>Band or Choir</b>		

*Requires a Pre-AP/AP Course Agreement.* This is a yearlong course that teaches a wide array of musical concepts. Along with music theory and beginning composition the students also deal with aural skills, dictation, keyboard skills, and sight singing. The objectives for this course are taken from the AP Music Theory and Composition Course Description published by the College Board. Students learn the basics of music notation and score analysis along with knowledge of basic tonal harmony in the eighteenth century common practice period style. The ultimate goal of the course is to develop a student's ability to recognize, understand, analyze, and describe the aspects and processes of music that is heard or seen on a score. Students engage in a variety of written, singing, and compositional exercises that teach them the many aspects of musical composition and analysis. The focus is on learning the foundation and principles of music theory that lead to aptitude in analysis and beginning composition. Preparation for the AP

Music Theory exam is an integral part of this college-level curriculum. At the conclusion of this course, students will be encouraged to take the AP exam (**approximate cost \$95**). Depending on their scores, students may receive college credit. Students that score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan.

**ART 1** **Credit: 1**  
**Grade Level: 8-10**  
**Pre-Requisite: None**

Art 1 will allow the student the opportunity to learn how to work with a large variety of materials. The first semester of Art 1 will introduce the student to drawing and color study using the elements and principals of design. Drawing will consist of sequential learning steps with emphasis of developing shading skills. Color studies will include, but not be restricted to, using water-based paints. The second semester, which builds on first semester skills, will include the study of painting skills, printmaking, and 3-dimensional constructions. Semesters must be taken in sequence. Approximate cost of supplies is \$30.00

**ART 2 –DRAWING** **Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: Art 1**

Art 2 Drawing allows the student the opportunity to work with a large variety of materials. This course is designed to continue a sequential study of drawing and colored media. Formal compositions will be completed in realistic, abstract, and non-objective styles, plus relating art history to periods of drawing and painting. Semesters must be taken in sequence. Supply fee per semester is \$30.00 Students are expected to draw 1 to 2 hours per week.

**ART 2 – PHOTOGRAPHY 1** **Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: Art 1**

Photography 1 students will develop basic photography skills and learn appropriate visual arts vocabulary. They will explore a variety of techniques, experiment with composition and format, critique their work and the work of others, and express art ideas both orally and in writing. Students are required to join the Photography Club for off-campus photography lab experiences. The supply fee is \$30.

**ART 2- CERAMICS** **Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: Art 1**

Art 2 Ceramics allows the student the opportunity to work with a large variety of materials. The student will be required to provide supplies for personal outside art projects. Art 2 provides an in-depth compositional study in ceramic and sculpture. The supply fee per semester is \$50.00.

**ART 3 – DRAWING** **Credit: 1**

**Grade Level:** 10-12  
**Pre-Requisite:** Art 2 Drawing

Intended for individuals interested in pursuing an art-related field of study, students are required to enter their artwork into a local art show. Independent art projects will require 1 to 2 hours per week outside the classroom. The student will be required to provide supplies for personal outside art projects. Art 3 provides an in-depth compositional study in drawing and painting. Drawing studies will emphasize life-drawing techniques. Painting emphasis may be on techniques of watercolor and mixed media, plus relating art history to periods of drawing and painting. Semesters must be taken in sequence. Supply fee per semester is \$30.00

**ART 3 – CERAMICS** **Credit:** 1  
**Grade Level:** 10-12  
**Pre-Requisite:** Art 2 Ceramics

Intended for individuals interested in pursuing an art-related field of study, students are required to enter their artwork into a local art show. Independent art projects will require 1 to 2 hours per week outside the classroom. The student will be required to provide supplies for personal outside art projects. Art 3 provides an in-depth compositional study in ceramic and sculpture. The supply fee per semester is \$50.00.

**ART 3 – PHOTOGRAPHY 2** **Credit:** 1  
**Grade Level:** 10-12  
**Pre-Requisite:** Art 2 – Photography 1

This is a foundation course for second-year photography students. The emphasis is on observational photos, lighting, and career opportunities. The elements of media addressed are visual literacy, problem-solving through the use of a variety of media, journaling, sketchbook work for idea development and investigation, technology as a creative tool, development of a single concept into a series, and written analysis of artwork and photographs. Students are required to join the Photography Club for off-campus photography lab experiences. The supply cost is \$30.

**ART 4 – PHOTOGRAPHY 3** **Credit:** 1  
**Grade Level:** 11-12  
**Pre-Requisite:** Art 3 – Photography 2

This is a continuation of studies from Photography 1 and 2.

**AP STUDIO ART: DRAWING** **Credit:** 1  
**Grade Level:** 10-12  
**Pre-Requisite:** Any Art 2 course, Portfolio

*Requires a Pre-AP/AP Course Agreement.* AP Studio Art Drawing is an advanced placement course that deals with drawing in many different studio areas. The Drawing Portfolio is designed to address a very broad interpretation of drawing issues and media. The class is geared toward students planning to submit an AP Drawing Portfolio to the College Board. About five hours of outside work is usually required per week. Students are to submit four portfolio quality pieces per nine-week period. Students are graded using the AP Drawing Studio rubric. Quality work is expected in both Breadth and Concentration. By the year's end, students should have twelve pieces to submit in the Breadth section and twelve works in the Concentration section. At the conclusion of this course, students will be encouraged to submit portfolios for the

AP exam (**approximate cost \$95**). Depending on their scores, students may receive college credit. Students that score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan. Students should submit a portfolio to the art teacher for consideration into this program. Students are expected to sign and honor a contract upon acceptance. Supply fee is \$50.00 per semester.

**AP STUDIO ART: 2D DESIGN** **Credit: 1**  
**Grade Level: 10-12**  
**Pre-Requisite: Any Art 2 course, Portfolio**

*Requires a Pre-AP/AP Course Agreement.* AP Studio Art 2D Design is an advanced placement course that deals with 2 dimensional art in many different studio areas. The class is geared toward students planning to submit an AP Design Portfolio to the College Board. About five hours of outside work is usually required per week. Students are graded using the AP Design Studio rubric. Quality work is expected in both Breadth and Concentration. At the conclusion of this course, students will be encouraged to submit portfolios for the AP exam (**approximate cost \$95**). Depending on their scores, students may receive college credit. Students that score a 3 or higher on this exam may use this as a Performance Acknowledgement on their graduation plan. Students should submit a portfolio to the art teacher for consideration into this program. Students are expected to sign and honor a contract upon acceptance. Supply fee is \$50.00 per semester.

**THEATER PRODUCTION 1** **Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: None**

In Production 1 students learn about voice, movement, stage areas/directions, auditioning, dramatic acting, comedic acting, monologue, improv, pantomime, character development, Shakespearean acting and ensemble. Students gain experience in these areas through short scene work, audition practice, improv games, theatre warm-ups and activities, team building exercises, and a full production with a student director. Performances outside of class time are required for this class.

**THEATER PRODUCTION 2** **Credit: 1**  
**Grade Level: 10-12**  
**Pre-Requisite: Theater Production 1**

**THEATER PRODUCTION 3** **Credit: 1**  
**Grade Level: 11 – 12**  
**Pre-Requisite: Theater Production 2, Possible Auditions**

**THEATER PRODUCTION 4** **Credit: 1**  
**Grade Level: 12**  
**Pre-Requisite: Theater Production 3, Possible Auditions**

The upper-level production classes are for students who are dedicated to continuing their study of acting and production. Students are required to attend after school rehearsals as scheduled. Students will also participate in scheduled performances for this class including student directed scenes, poetry and prose, full productions, children’s theatre, improvisational acting, and other productions.

**TECHNICAL THEATER 1** **Credit: 1**  
**Grade Level: 9-12**  
**Pre-Requisite: None**

In Technical Theatre students learn about the parts of the stage, tools, lumber grades and uses, building practices, safety in the shop, color, painting techniques, lighting, sound, costuming, theatrical makeup, production teams, set design, props, publicity and evaluating a script for production. Students participate in many design projects and gain hands-on experience through building usable materials for current productions. Students are required to work backstage for at least one production during the school year.

**TECHNICAL THEATER 2** **Credit: 1**  
**Grade Level: 10-12**  
**Pre-Requisite: Tech Theater 1**

**TECHNICAL THEATER 3** **Credit: 1**  
**Grade Level: 11-12**  
**Pre-Requisite: Tech Theater 2**

**TECHNICAL THEATER 4** **Credit: 1**  
**Grade Level: 12**  
**Pre-Requisite: Tech Theater 3**

Technical Theaters 2, 3, and 4 is for students who wish to bring their design concepts to fruition. They will take the basic ideas of the design areas and work on specific projects for upcoming and current activities and/or productions.

### Other Electives

**SPORTS MEDICINE 1** **Credit: 1**  
**Grade Level: 10-12**  
**Pre-Requisite: Teacher Approval**

This course is designed to advance student's knowledge and capabilities in the field of athletic training through active learning. Topics contained within this course include management of emergency medical situations, first aid, safety, basic anatomy, injury prevention, injury treatment, sports nutrition, and training and conditioning principles. CPR certifications are obtainable.

**SPORTS MEDICINE 2** **Credit: 1**  
**Grade Level: 11-12**  
**Pre-Requisite: Sports Medicine 1, Teacher Approval**

**SPORTS MEDICINE 3** **Credit: 1**  
**Grade Level: 12**  
**Pre-Requisite: Sports Medicine 2, Teacher Approval**

These courses are designed for students who have successfully completed Sports Medicine I and truly have an interest in Athletic Training. Students in these courses will serve as Student Athletic Trainers. They will be required to complete 30 clock hours of observation for this class. Observations can be completed with the instructor at all home athletic events or through approved away games, clinics, and rotations that are fitting. Since this course is hands-on

training, students will be tested on practical situations like taping ankles, etc. CPR certifications are obtainable.

Students may earn an endorsement by successfully completing at least 26 credits on the Foundation High School Program plan to include 4 math and 4 science credits and the coherent sequence of courses required for a specific endorsement. Celina ISD offers endorsements in Arts and Humanities, Business and Industry, Multi-Disciplinary Studies, Public Services and STEM Math and Science courses. Students may earn more than one endorsement if more than one pathway of courses is completed. The courses necessary to complete different endorsements are outlined below.

## *Arts & Humanities*

**FINE ARTS - a coherent sequence of 4 credits by selecting from one or two categories or disciplines of Fine Arts. Please view course descriptions earlier in this catalogue for pre-requisites and course specifics.**

### Fine Art - Art

1 <sup>st</sup> course in sequence	2 <sup>nd</sup> course in sequence	3 <sup>rd</sup> course in sequence	4 <sup>th</sup> course in sequence
<input type="checkbox"/> Art 1	<input type="checkbox"/> Art 2 Drawing <input type="checkbox"/> Art 2 Ceramics <input type="checkbox"/> Art 2 Photo 1	<input type="checkbox"/> Art 3 Drawing <input type="checkbox"/> Art 3 Ceramics <input type="checkbox"/> Art 3 Photo 2	<input type="checkbox"/> AP Art Drawing <input type="checkbox"/> AP Art 2-D <input type="checkbox"/> Art 4 Photo 3

### Fine Art - Music

1 <sup>st</sup> course in sequence	2 <sup>nd</sup> course in sequence	3 <sup>rd</sup> course in sequence	4 <sup>th</sup> course in sequence
<input type="checkbox"/> Band 1  <input type="checkbox"/> Choir 1	<input type="checkbox"/> Band 2  <input type="checkbox"/> Choir 2	<input type="checkbox"/> Band 3  <input type="checkbox"/> Choir 3	<input type="checkbox"/> Band 4  <input type="checkbox"/> Choir 4

### Fine Art - Theater

1 <sup>st</sup> course in sequence	2 <sup>nd</sup> course in sequence	3 <sup>rd</sup> course in sequence	4 <sup>th</sup> course in sequence
<input type="checkbox"/> Theater Prod 1  <input type="checkbox"/> Tech Theater 1	<input type="checkbox"/> Theater Prod 2  <input type="checkbox"/> Tech Theater 2	<input type="checkbox"/> Theater Prod 3  <input type="checkbox"/> Tech Theater 3	<input type="checkbox"/> Theater Prod 4  <input type="checkbox"/> Tech Theater 4

### Other Languages - 4 levels of the same language other than English

1 <sup>st</sup> course in sequence	2 <sup>nd</sup> course in sequence	3 <sup>rd</sup> course in sequence	4 <sup>th</sup> course in sequence

<input type="checkbox"/> Spanish 1	<input type="checkbox"/> Spanish 2 <input type="checkbox"/> Spanish 2 Pre-AP	<input type="checkbox"/> Spanish 3 Pre-AP	<input type="checkbox"/> Spanish 4 AP
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## *Business and Industry*

**Non-CTE - English 4 and courses to include three levels in one of the following areas. Please view course descriptions earlier in this catalogue for pre-requisites and course specifics.**

1 <sup>st</sup> course in sequence	2 <sup>nd</sup> course in sequence	3 <sup>rd</sup> course in sequence	4 <sup>th</sup> course in sequence
<input type="checkbox"/> Journalism  <input type="checkbox"/> Princ of Art/AV Technology	<input type="checkbox"/> Adv Journ: Newspaper 1  <input type="checkbox"/> Adv Journ: Broadcasting 1 <input type="checkbox"/> Adv Journ: Yearbook 1	<input type="checkbox"/> Adv Journ: Newspaper 2  <input type="checkbox"/> Adv Journ: Broacasting 2  <input type="checkbox"/> Adv Journ: Yearbook 2	<input type="checkbox"/> Adv Journ: Newspaper 3  <input type="checkbox"/> Adv Journ: Broacasting 3  <input type="checkbox"/> Adv Journ: Yearbook 3
<input type="checkbox"/> Debate 1	<input type="checkbox"/> Debate 2	<input type="checkbox"/> Debate 3	<input type="checkbox"/> Ind Study Speech

## *Multi-Disciplinary Studies*

**A student may earn a multi-disciplinary studies endorsement by completing the required 26 credits for graduation and one of the following in tables A, B, or C. Please view course descriptions earlier in this catalogue for pre-requisites and course specifics.**

A	B	C
4 credits each in English, Math, Science, and Social Studies to include English 4 and Chemistry and/or Physics  or	4 credits in Advanced Placement (AP) courses selected from English, Math, Science, Social Studies, Economics, Languages other than English, Fine Arts  or	4 Dual Credit courses selected from English, Math, Science, Social Studies, or Economics.

**STEM - Math:** must complete the required 26 credits for graduation including Algebra 2, Chemistry, and Physics or Princ of Technology, plus additional math credits for which Algebra 2 is a pre-requisite (a total of 5 math classes). Please view course descriptions earlier in this catalogue for pre-requisites and course specifics.

1 <sup>st</sup> course in sequence	2 <sup>nd</sup> course in sequence	3 <sup>rd</sup> course in sequence	4 <sup>th</sup> course in sequence	5 <sup>th</sup> course in sequence
<input type="checkbox"/> Algebra 1	<input type="checkbox"/> Geometry	<input type="checkbox"/> Algebra 2	<input type="checkbox"/> Pre-Calculus	<input type="checkbox"/> AP Calculus <input type="checkbox"/> Statistics & Business Decision Making

**STEM - Science:** must complete the required 26 credits for graduation including Algebra 2, Chemistry, and Physics or Princ of Technology, plus additional science credits for a total of 5 science classes. Please view course descriptions earlier in this catalogue for pre-requisites and course specifics.

1 <sup>st</sup> course in sequence	2 <sup>nd</sup> course in sequence	3 <sup>rd</sup> course in sequence	4 <sup>th</sup> course in sequence	5 <sup>th</sup> course in sequence
<input type="checkbox"/> Biology	<input type="checkbox"/> Chemistry	<input type="checkbox"/> Physics Or <input type="checkbox"/> Princ of Technology	<input type="checkbox"/> Forensic Science Or <input type="checkbox"/> Anatomy & Physiology	<input type="checkbox"/> AP Biology Or <input type="checkbox"/> AP Chemistry

## ***Career and Technical Education (CTE) Endorsements***

CTE Pathways - a coherent sequence of three or more courses for four or more credits in the same CTE Pathway and at least one advanced CTE class. An advanced CTE class is any class in the 3rd or 4th level. Upon completion an Endorsement in either Human Services or Business and Industry will be awarded.

### **Career & Technical Education (CTE)**

Celina High School offers courses in the following eight (8) Career Clusters:



- Agriculture, Food, & Natural Resources
- Arts, A/V Technology & Communications
- Business, Marketing and Finance
- Construction and Architecture
- Health Science
- Human Services
- Information Technology
- Law, Public Safety, Corrections, & Security
- STEM: Engineering and Computer Science

<b>Pathways</b>	<b>Courses</b> (in coherent sequence)	<b>Credits</b>	<b>Grade Levels</b>	<b>Pre-Requisites</b>
Ag Engineering	Principles of Ag and Natural Resources Ag Mech & Metal Tech Ag Structures Design & Fabrication Practicum in Ag Career Preparation	1 1 1 2 3	9-12 10-12 11-12 11-12 11-12	None PANR Ag Mech Ag Mech None
Ag Science	Principles of Ag and Natural Resources Small Animal Management Equine Science Livestock Production Practicum in Ag Or Career Preparation	1 .5 .5 1 2 3	9-12 10-12 10-12 11-12 11-12 11-12	None PANR PANR PANR PANR None
AV Production	Principles of Arts AV Tech and Comm AV Production I AV Production II Practicum in AV Production	1 1 2 2	8-12 9-12 10-12 11-12	None Principles of AV AV I AV II
AV Graphic Design	Principles of Arts AV Tech and Comm Graphic Design I Graphic Design II Practicum in AV	1 1 2 2	8-12 9-12 10-12 11-12	None Principles of AV Graphic D. I Graphic D. II
Business	Principles of Bus, Mkt and Finance Business Law Business Management Practicum in Business Management Or Career Prep Or Statistics and Business Decision Making	1 1 1 2 3 1	9-12 10-12 11-12 11-12 11-12 11-12	None PBMF Bus Law Bus Mgmt None None
Construction and Architecture	Principles of Construction Construction Mgmt I Construction Mgmt II Practicum in Construction	1 2 2 3	9-12 10-12 11-12 11-12	None PrinCon ConMgmt I ConMgmt II
Marketing	Principles of Bus, Mkt and Finance Sports & Entertainment Marketing Sports & Entertainment Marketing II Social Media Marketing Advertising Practicum in Marketing Or Career Preparation	1 .5 .5 .5 .5 2 3	9-12 10-12 10-12 11-12 11-12 11-12 11-12	None PBMF SEM I SEM II SMM Advertising None

Health Science	Principles of Health Science	1	9-12	None
	Medical Terminology	1	10-12	Prin Health Sci
	Health Science Theory (Clinical)	1	11-12	Med Term
	Practicum in Health Science	2	11-12	Theory
	Or Anatomy & Physiology	1	11-12	None
Human Services	Principles of Human Services	1	9-12	None
	Lifetime Nutrition and Wellness	.5	10-12	PHS
	Dollars & Sense	.5	10-12	PHS
	Or Human Growth Development	1	10-12	PHS
	Family & Community Services	1	11-12	PHS
	Practicum in Human Services	2	11-12	2 FCS Credits
Information Technology (SWAT)	See Counselor			
Law, Public Safety, Corrections & Security	Principles of Law, Public Safety, Corr & Sec	1	9-12	None
	Law Enforcement I	1	10-12	PLPSCS
	Law Enforcement II	1	11-12	Law Enf I
	Practicum in Law and Public Safety	2	11-12	Law Enf II
Legal Studies	Principles of Law, Public Safety, Corr & Sec	1	9-12	None
	Business Law	1	10-12	PLPSCS
	Court Systems & Practices	1	11-12	Business Law
	Practicum in LPSCS	2	11-12	Business Law
	Or Career Preparation	2	11-12	Business Law
STEM: Engineering	Introduction to Engineering Design	1	9-12	None
	Principles of Engineering	1	10-12	IED
	Aerospace Engineering	1	11-12	POE
	Engineering Design and Problem Solving	1	11-12	POE
STEM: Computer Science	Fundamentals of Computer Science	1	9-12	None
	Computer Science I	1	10-12	Algebra I
	Computer Science II	1	11-12	Comp Sci II
	Computer Science III	1	11-12	Comp Sci II
	Practicum in AV	2	11-12	Comp Sci II
	Or Practicum in IT	2	11-12	Comp Sci II
	Or Career Preparation	2	11-12	Comp Sci II

### ***Agriculture Science and Technology***

#### **PRINCIPLES OF AGRICULTURE, FOOD & NATURAL RESOURCES**

**Grade Level:** 9-12 **Credit:** 1

**Pre-Requisite:** None

To be prepared for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for success, students need to have opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

**SMALL ANIMAL MANAGEMENT****Credit: .5****Grade Level: 10-12****Pre-requisite: Princ of Ag, Food, & Nat'l Resources****Semester Course paired with Equine Science**

Students will enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings. Suggested small animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

**EQUINE SCIENCE****Grade Level: 10-12****Credit: .5****Pre-Requisite: Princ of Ag, Food, & Nat'l Resources****Semester Course paired with Small Animal Management**

To be prepared for careers in the field of animal science, students need to enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Suggested animals which may be included in the course of study include, but are not limited to, horses, donkeys, and mules.

**AGRICULTURAL MECHANICS & METAL TECHNOLOGIES****Grade Level: 10-12****Credit: 1****Pre-Requisite: Princ of Ag, Food, & Nat'l Resources**

This course prepares students for careers in agriculture power, structural, and technical systems by developing skills and understanding as it relates to safety in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metalworking techniques.

**AGRICULTURAL STRUCTURES DESIGN & FABRICATION****Grade Level: 11-12****Credit: 1****Pre-Requisite: Princ of Ag, Food, & Nat'l Resources  
Ag Mechanics & Metal Techn**

This course prepares students for careers in mechanized agriculture and technical systems by developing knowledge and skills related to agriculture facilities and design. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

**VETERINARY MEDICAL APPLICATIONS****Grade Level: 11-12****Credit: 1****Pre-Requisite: Princ of Ag, Food & Nat'l Resources  
Equine Science/Small Animal Science**

Veterinary Medical Applications covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and

technologies in a variety of settings. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### **ADVANCED ANIMAL SCIENCE**

**Grade Level:** 12  
**Pre-Requisite:** Princ of Ag, Food, and Nat'l Resources  
Biology

**Credit:** 1  
**GPA Level:** none  
(unless used  
as a 4<sup>th</sup> or 5<sup>th</sup>  
Science)

This course is to prepare students in the field of animal science. Students will attain academic skills and knowledge related to animal systems and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. Students will examine the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. **This course is a Career and Technical Education Agriculture course that may be used as a 4<sup>th</sup> or 5<sup>th</sup> science course. To receive Science credit, students must meet a 40% lab and fieldwork requirement.** All required Agriculture and Science courses must be completed before taking this course.

### **PRACTICUM IN AGRICULTURE, FOOD, & NATURAL RESOURCES**

(2 hr class)

**Grade Level:** 11-12  
**Pre-Requisite:** Ag Mech & Metal, Ag Struct Design, or Veterinary Medical  
Application

**Credit:** 2

**Teacher Approval**

This course prepares students for careers in mechanized agriculture and technical systems by developing knowledge and skills related to agriculture facilities and design with a practicum in this area. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses. Ag teacher must approve any student wishing to enroll in this course.

## ***Art & Audio Visual Technology***

### **PRINCIPLES OF ARTS, A/V TECHNOLOGY & COMMUNICATION**

**Grade Level:** 9-12  
**Pre-Requisite:** None

**Credit :** 1

In this class, students develop an understanding of the multifaceted career opportunities and characteristics, such as a creative aptitude, strong background in computer and technology applications, a strong academic foundation and a proficiency in oral and written communication that are necessary for those interested in the field of Arts, A/V Technology. This course may count as the required technology credit.

### **AUDIO/VIDEO PRODUCTION 1**

**Grade Level:** 10-12  
**Pre-Requisite:** Princ of Arts, A/V Tech & Comm

**Credit:** 1

Students develop technical knowledge and skills related to careers in audio and video technology and film production with a focus on pre-production, production, and postproduction audio and video activities.

**AUDIO/VIDEO PRODUCTION 2 W/LAB** (2 hr class)  
**Grade Level:** 11-12 **Credit:** 2  
**Pre-requisite:** Audio/Video Production 1

Students develop an advanced understanding of the industry with a focus on pre-production, production, and post production activities. Both the class and the lab must be taken concurrently.

**Graphic Design & Illustration I**  
**Grade Level:** 10-12  
**Credit:** 1  
**Pre-requisite:** Principles of Arts, A/V Tech & Comm

Students develop knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

**Fashion Design**  
**Grade Level:** 10-12 **Credit:** 1  
**Pre-requisite or Concurrent:** Principles of Arts, A/V Tech & Comm

Students develop an advanced understanding of the industry with a focus on fashion with using software and design techniques.

**Graphic Design & Illustration II w/Lab** (2 hr class)  
**Grade Level:** 10-12 **Credit:** 2  
**Pre-requisite:** Graphic Design & Illustration I

Students expand their knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

**Commercial Photography I & II (with Lab optional)** (1 or 2 hr class)  
**Grade Level:** 10-12 **Credit:** 1 or 2  
**Pre-requisite:** Principles of Arts, A/V Tech & Comm

In addition to developing advanced technical knowledge and skills needed for success, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

**PRACTICUM IN AV PRODUCTION** (2 hr class)  
**Grade Level:** 12 **Credit:** 2  
**Pre-requisite:** Audio/Video Production 2 w/Lab

Careers in audio/video production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production II and its co-requisite Audio/Video Production II Lab, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an increasing understanding of the industry with a focus on applying pre-production, production, and post-production audio and video products in a professional environment. This course may be implemented in an advanced audio/video or audio format. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### ***Business Management and Administration Technology***

#### **PRINCIPLES OF BUSINESS, MARKETING & FINANCE**

**Grade Level:** 9-12 **Credit:** 1  
**Pre-Requisite:** None

Students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, advertising, and product pricing.

#### **BUSINESS LAW**

**Grade Level:** 10-12 **Credit:** 1  
**Pre-requisite:** PRINCIPLES OF BUSINESS, MARKETING & FINANCE

Business Law provides an insight into the evolution and development of laws that govern business in our society. Students will develop a clear understanding of their rights and duties within the business environment. The course includes a focus on criminal vs. civil law, contract law, tort law, and consumer law. Students will analyze various aspects of the legal environment, including ethics, the judicial system, contracts, personal property, sales, negotiable instruments, agency and employment, business organization, risk management, and real property.

#### **BUSINESS MANAGEMENT**

**Grade:** 11-12 **Credit:** 1  
**Prerequisites:** Business Law

Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

#### **SPORTS & ENTERTAINMENT MARKETING**

**Grade 10-12** **Credit:** .5  
**Suggested Prerequisite:** Principles of Business, Marketing & Finance

Students learn basic marketing, target marketing and segmentation, sponsorship, event marketing, promotions, sponsorship proposals, and implementation of sports and entertainment marketing plans.

**BUSINESS ENGLISH**  
**Grade level:** 12  
**Pre-Requisite:** English 3,  
**Recommended Pre-Req:** BIM 1

**Credit:** 1  
**GPA Level:** none  
(unless used  
as a 4<sup>th</sup>  
English)

This course is a Career and Technology Education course that can be used as a 4th year English class. Students recognize, evaluate, and prepare for a rapidly evolving global business environment that requires flexibility and adaptability. They will apply technical skills to address business applications of emerging technologies; enhance reading, writing, computing, communication and reasoning skills and apply them to the business environment; plan, draft, edit, and complete written compositions; proof compositions for clarity, engaging language, and the correct use of the conventions and mechanics of the written English language, and produce final, error-free drafts for business reproduction.

**STATISTICS & BUSINESS DECISION MAKING**  
**Grade Level:** 11-12  
**Pre-Requisite:** Algebra 2

**Credit:** 1  
**GPA Level:** none  
(unless used  
as a 4<sup>th</sup> Math)

This course is a Career and Technology Education course that can be used as a 4th year math class. Students will use a variety of graphical and numerical techniques to analyze patterns and departures from patterns to identify and manage risks that could impact an organization. Students will use probability as a tool for anticipating and forecasting data within business models to make decisions, and determine the appropriateness of methods used to collect data to ensure conclusions are valid. Students will use career planning concepts, tools, and strategies to explore careers in the area of risk management.

### *Construction and Architecture*

**Principles of Construction**  
**Grade Level:** 9-12  
**Pre-Requisite:** None

**Credit:** 1  
**GPA Level:** none

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

**Construction Management I**  
**Grade Level:** 10-12  
**Pre-Requisite:** Principles of Construction

**Credit:** 2  
**GPA Level:** none

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power

tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

**Construction Management II** **Credit: 2**  
**Grade Level: 10-12** **GPA Level: none**  
**Pre-Requisite: Construction Management I**

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

**Practicum in Construction Management** **Credit: 3**  
**Grade Level: 11-12** **GPA Level: none**  
**Pre-Requisite: Construction Management I**

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. For safety and liability considerations, limiting course enrollment to 15 students is recommended. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

### ***Marketing Technology***

**SPORTS & ENTERTAINMENT MARKETING** **Credit: .5**  
**Grade Level: 10-12**  
**Pre-requisite: Princ of Business, Marketing, & Finance**

Taught 1st semester, this course will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and sporting events and entertainment. The areas this course will cover include basic marketing, target marketing and segmentation, sponsorship, and event marketing. This course will also provide students an opportunity to develop promotional plans and proposals.

**ADVERTISING** **Credit: .5**  
**Grade Level: 10-12**  
**Pre-requisite: Princ of Business, Marketing, & Finance**

Taught 2nd semester, this course is designed as a comprehensive introduction into the principals and practices of advertising. Students will gain knowledge of techniques used in



current advertising, including print, broadcast, and digital media. Students will explore the social, ethical, and legal issues of advertising; historical influences, strategies, and media decision processes as well as integrated marketing communications.

**ENTREPRENEURSHIP** **Credit: 1**  
**Grade Level: 10-12**  
**Pre-Requisite: Princ of Business, Marketing, & Finance**

Students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students understand the capital required, the return on investment desired, and the potential for profit.

### *Health Science (Healthcare Therapeutic)*

**PRINCIPLES OF HEALTH SCIENCE** **Credit: 1**  
**Grade Level: 9 – 12**  
**Pre-Requisite: None**

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

**MEDICAL TERMINOLOGY** **Credit: 1**  
**Grade Level: 10 – 12**  
**Pre-Requisite: Principles of Health Science**

In this course, the student will learn medical terminology, symbols and abbreviations, and the application of this language in the field of health care. Although the student will analyze terms related to body structure and function, the main focus will be on medical vocabulary and being able to construct terms using word parts such as roots, suffixes, and prefixes.

**HEALTH SCIENCE THEORY** **Classes: 1**  
**Grade Level: 11** **Credit: 1**  
**Pre-Requisite: Medical Terminology and Biology**

The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development. **This course is a requirement for PRACTICUM IN HEALTH SCIENCE.**

**ANATOMY AND PHYSIOLOGY** **Credit: 1**  
**Grade Level: 11-12** **GPA Level: none**  
**Pre-Requisite: Biology, Chemistry and Physics** **(unless used as a 4<sup>th</sup> Science credit)**

Anatomy and Physiology is a detailed study of the systems of the human body. Students conduct field and laboratory investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics that include: structures and functions of organs and systems and their interactions with each other and their environments and body processes that maintain homeostasis. **This course is a Career and Technical Education course that may be used as a 4th year science course. To receive Science credit, students must meet a 40% lab and fieldwork requirement.**

**PHARMACOLOGY** **Credit: 1**  
**Grade Level: 12**  
**Pre-Requisite: Princ of Health Sciences, Biology, Chemistry**

The Pharmacology course is designed to study how natural and synthetic chemical agents such as drugs affect biological systems. Knowledge of the properties of therapeutic agents is vital in providing quality health care. It is an ever-changing, growing body of information that continually demands greater amounts of time and education from health care workers. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

**PRACTICUM IN HEALTH SCIENCES** **2 hr class**  
**Grade Level: 12** **Credit:2**  
**Pre-Requisite: Health Science Theory and Biology**

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. To pursue a career in the health care industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others. The health care industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students recognize the employment opportunities, technology, and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science certification or licensure through further education and employment. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### *Human Services Technology*

**PRINCIPLES OF HUMAN SERVICES** **Credit: 1**  
**Grade Level: 9-12**  
**Pre-requisite: None**

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early

childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers. Possible lab fee: \$25.

### **LIFETIME NUTRITION & WELLNESS**

**Grade Level:** 10-12 **Credit:** .5  
**Pre-Requisite:** Princ of Human Services or  
Princ of Health Science

Lifetime Nutrition and Wellness is a laboratory course that allows students to use principles of lifetime wellness and nutrition to help them make informed choices that promote wellness as well as pursue careers related to hospitality and tourism, education and training, human services, and health sciences.

### **DOLLARS AND SENSE**

**Grade Level:** 10-12 **Credit:** .5  
**Pre-Requisite:** Princ of Human Services or  
Princ of Health Science

This class focuses on consumer practices and responsibilities, the money management process, decision-making skills, and the impact of technology in preparation for human services careers. Students will learn how to manage money, how to make wise purchases, how to invest money, save money, create a budget, college budgeting, scholarship researching, resume writing, college application preparation, and other college and workforce readiness skills.

### **COUNSELING & MENTAL HEALTH**

**Grade Level:** 11-12 **Credit:** 1  
**Pre-Requisite:** Princ of Human Services

Students will model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

### **PRACTICUM IN HUMAN SERVICES**

**(FUTURE COURSE)**

**Grade Level:** 11-12 **Credit:** 2  
**Pre-Requisite:** Princ in Human Services  
Interview with Teacher  
Driver's license and/or Transportation  
Must be a member of FCCLA organization (\$25)

This course provides occupational specific training and focuses on the development of consumer services, early childhood development and services, counseling and mental health services, family and community service careers and personal care services.

## ***Information Technology***

## **PRINCIPLES OF INFORMATION TECHNOLOGY – SWAT 1**

**Grade Level:** 10-12

**Credit:** 1

**Pre-Requisite:** Teacher Approval

In Principles of Information Technology, students will develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. Students will enhance reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

## **COMPUTER MAINTENANCE – SWAT 2**

**Grade Level:** 11-12

**Credit:** 1

**Pre-Requisite:** Princ of Information Tech  
Teacher Approval

In Computer Maintenance, students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.

## **NETWORKING – SWAT 3**

**Grade Level:** 12

**Credit:** 1

**Pre-Requisite:** Computer Maintenance  
Teacher Approval

In Networking, students will develop knowledge of the concepts and skills related to data networking technologies and practices in order to apply them to personal or career development. To prepare for success, students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.

## ***Law, Public Safety, & Security Technology***

## **PRINCIPLES OF LAW, PUBLIC SAFETY, CORRECTIONS AND SECURITY**

**Grade Level:** 9-10

**Pre-Requisite:** None

**Credit:** 1

Students will examine the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services. The course provides students with an overview of the skills necessary for careers in law enforcement, fire service, security, and corrections.

## **FORENSIC SCIENCE**

**Grade Level:** 11 – 12

**Pre-Requisite:** Biology and Chemistry

**Credit:** 1

**GPA Level:** none  
(unless used as a

## 4<sup>th</sup> Science credit)

Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood splatter analysis. Students will learn the history, legal aspects, and career options for forensic science. **This course is a Career and Technical Education course that may be used as a 4<sup>th</sup> or 5<sup>th</sup> science course. To receive Science credit, students must meet a 40% lab and fieldwork requirement.** All required Science courses must be completed before taking this course.

### *Science, Technology, Engineering & Math Technology (STEM)*

**INTRODUCTION TO ENGINEERING AND DESIGN (PLTW)      Credit:      1**  
**Grades:      9-10**  
**Pre-Requisite: None**

The major focus of the IED course is to expose students to design process, research and analysis, teamwork, communication methods, global and human impacts, engineering standards, and technical documentation. The course of study includes the Design Process, Modeling, Sketching, Measurement, Statistics, Applied Geometry, Presentation Design and Delivery, Engineering Drawing Standards, CAD Solid Modeling, Reverse Engineering, Consumer Product Design Innovation, Marketing, Graphic Design, Engineering Ethics and Virtual Design.

**PRINCIPLES OF ENGINEERING (PLTW)      Future Course**  
**Grades:      10-12**  
**Pre-Requisite: Introduction to Engineering and Design (PLTW)**

Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations.

**AEROSPACE ENGINEERING (PLTW)      Future Course**  
**Grades:      11-12**  
**Pre-Requisite: Principles of Engineering**

Students learn the fundamentals of atmospheric and space flight. As they explore the physics of flight, students bring the concepts to life by designing an airfoil, propulsion system, and rockets. They learn basic orbital mechanics using industry-standard software. They also explore robot systems through projects such as remotely operated vehicles & drones.

**ENGINEERING DESIGN & PROBLEM SOLVING (PLTW)      Future Course**  
**Grades:      12**  
**Pre-Requisite: Aerospace Engineering**

Capstone engineering course for students to explore and create using what they have learned in previous learning.

### **PHYSICS: PRINCIPLES OF TECHNOLOGY**

**Grade Level:** 11-12  
**Pre-Requisite:** Biology and Algebra 1

**Credit:** 1  
**GPA Level:** none  
(unless used as a  
Physics credit)

*Credit may not be earned for both Physics and Principles of Technology to satisfy a science credit.* In Principles of Technology, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations using safe practices. **This course is a Career and Technical Education course that may be used as a 3<sup>rd</sup> or 4<sup>th</sup> science course. To receive Science credit, students must meet a 40% lab and fieldwork requirement.**

### **Computer Science**

Some of the courses listed in this section are planned for the future. We will begin to implement them as resources become available and as student interests in this area rises.

#### **COMPUTER SCIENCE I**

**Grade Level:** 9-10  
**Pre-Requisite:** Algebra 1

**Credit:** 1

Computing has changed the world in profound ways: it has opened wonderful new ways for people to connect, design, research, play, create, and express themselves. However, using the computer is just a small part. The TEALS Computer Science I uses Snap!, an approachable, visual, block-based programming language, with a robust tool set, perfect for introducing students to code for the first time. Snap! is taught as a single semester course or during the first semester of the full year course. In the year-long option, students will benefit from exposure to a Python-based programming curriculum.

#### **COMPUTER SCIENCE II**

**Grade Level:** 10-12  
**Pre-Requisite:** Computer Science 1

**Credit:** 1

Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results.

## Scheduling Notes/Grad Plan

Student Name: \_\_\_\_\_ ID # \_\_\_\_\_

Expected Grad Date: \_\_\_\_\_

<p>Endorsement Selected (Select One)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> STEM</li> <li><input type="checkbox"/> Arts &amp; Humanities</li> <li><input type="checkbox"/> Business &amp; Industry</li> <li><input type="checkbox"/> Multidisciplinary</li> <li><input type="checkbox"/> Public Services</li> </ul>	<p>STARR EOC Checklist (Must Pass all)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> English I</li> <li><input type="checkbox"/> English II</li> <li><input type="checkbox"/> Algebra I</li> <li><input type="checkbox"/> Biology</li> <li><input type="checkbox"/> US History</li> </ul>
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### Courses

<p>English Language Arts (4 Credits)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> English I</li> <li><input type="checkbox"/> English II</li> <li><input type="checkbox"/> English III</li> <li><input type="checkbox"/> English IV</li> </ul>	<p>Social Studies (4 Credits)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> World Geography</li> <li><input type="checkbox"/> World History</li> <li><input type="checkbox"/> US History</li> <li><input type="checkbox"/> Government and Economics</li> </ul>
<p>Mathematics (4 Credits)</p>	<p>Science (4 Credits)</p>

Algebra I Geometry Algebra II Advanced Mathematics	Biology Chemistry Advanced Science
Fine Arts (1 Credit)	
PE (1 Credit)	
	Elective/Endorsement Course: Course 1 _____ Course 2 _____ Course 3 _____ Course 4 _____ Course 5 _____



Celina High School

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