

Melissa High School



Course Catalog

2021 - 2022

Mission

Melissa High School will prepare all students for success in a rapidly changing world by emphasizing the power of personal relationships, critical thinking skills, and service to the community.

Vision

Melissa High School students will learn how to transform thoughts into ideas, ideas into actions, and actions into results.

Core Beliefs

Knowing that we are committed to being child centered, we will act with and instill:
honesty, integrity, loyalty, humility, and hope.

Students should keep this catalog
until graduation as a resource.
Updates and revisions will be
posted on the Melissa High School
webpage at www.melissaisd.org

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GRADUATION REQUIREMENTS

Our goal is for all graduates of Melissa Schools to be college and career ready. All students will work closely with their campus counselors to make detailed plans for their high school years and beyond. This overview of graduation requirements is intended as an initial resource to help you begin achieving your goals.

Overview

House Bill 5 (HB 5), passed by the 83rd Texas Legislature and signed by the governor, provides for multiple graduation plan options. In accordance with HB 5, every student must complete 22 credits of foundational coursework. Students then select advanced coursework to complete an endorsement in one or more of the following areas:

- Arts and Humanities
- Business and Industry
- Multidisciplinary Studies
- Public Services
- Science, Technology, Engineering and Mathematics (STEM)

Foundation

All students must complete the following 22 credits:

- 4 English
- 3 Mathematics
- 3 Science
- 3 Social Studies
- 2 Language other than English (LOTE/World Language)
- 1 Physical Education
- 1 Fine Arts
- 5 Electives

(See the State Graduation Plan flowchart on page 7 for specific requirements in each area.)

Endorsements

Students must choose at least one endorsement to pursue upon entering 9th grade. However, students may change their endorsement selection at a later date. To receive an endorsement, students must earn 4 or more credits in addition to the 22 foundation credits:

- 4th Mathematics
- 4th Science
- 2 or more electives specific to the chosen endorsement

Arts and Humanities

Students may receive an Arts and Humanities endorsement by earning the following credits:

- 5 Social Studies Credits; or
- 4 levels of the same language in a language other than English or 2 levels in 2 different languages; or
- a coherent sequence of 4 credits from 1 or 2 disciplines within the Fine Arts

Business and Industry

Students may receive a Business and Industry endorsement by earning the following credits:

- A coherent sequence of 4 or more credits in Career and Technical Education (CTE) with 2 courses in the same cluster and 1 advanced course from an approved cluster (specified in Texas Administrative Code ((TAC)) 74.13f); or
- 3 levels in the following area:
 - Debate; or
- A coherent sequence determined by the district of 4 credits from the 2 options above

Multidisciplinary Studies

Students may receive a Multidisciplinary Studies endorsement by earning the following credits:

- 4 credits in each of the 4 foundation subject areas, including
 - English 4
 - Chemistry and/or Physics; or
- 4 or more “Dual Credit” high school credits; or
- 4 advanced courses that prepare a student to successfully enter the workforce or postsecondary education without remediation from within 1 or more endorsement areas

Public Services

Students may receive a Public Services endorsement by earning the following credits:

- A coherent sequence of 4 or more credits in CTE with 2 courses in the same cluster and 1 advanced course from an approved cluster (specified in TAC 74.13)

STEM

Students may receive a STEM endorsement by earning the following credits:

- Algebra 2; and
- Chemistry; and
- Physics; and
 - coherent sequence of 2 or more credits in CTE courses, culminating in at least 1 STEM course; or
 - 2 additional mathematics courses for which Algebra 2 is a prerequisite (not Statistics or Algebraic Reasoning); or
 - 2 additional advanced science courses; or
 - A coherent sequence of 3 credits from no more than 2 of the disciplines represented in the above options

Additional Criteria

House Bill 5 (HB 5) calls for students to demonstrate proficiency in delivering clear verbal messages; choosing effective nonverbal behaviors; listening for desired results; applying valid critical-thinking and problem-solving processes; and identifying, analyzing, developing, and evaluating communication skills needed for professional and social success in interpersonal situations, group interactions, and personal and professional presentations. The Professional Communications course and Debate I course both satisfy this requirement.

To qualify as part of the top ten percent of their graduating class, students must successfully complete Algebra 2.

Testing

Students must pass the following State of Texas Assessments of Academic Readiness End-of-Course exams (STAAR EOCs) prior to graduation:

- English 1
- English 2
- Algebra 1
- Biology
- US History

Grade Level Classifications

Students are organized into grade levels by the number of credits earned. See the chart below:

Credits Earned	Grade Level Number	Grade Level Name
0 – 5.5	9 th Grade	Freshman
6 – 11.5	10 th Grade	Sophomore
12 – 17.5	11 th Grade	Junior
18 +	12 th Grade	Senior

Semester Grades

Semester grades will be calculated as follows:

Semester 1 = 42.5% of Quarter 1 + 42.5% of Quarter 2 + 15% of Semester 1 Exam
Semester 2 = 42.5% of Quarter 3 + 42.5% of Quarter 4 + 15% of Semester 2 Exam

Semester Exam Exemptions

Students may earn exemptions from semester exams in the spring semester of one-credit courses under certain conditions. Exemptions do not apply to dual credit courses and are limited in number:

Grade Level	Maximum Number of Exemptions
9	1
10	2
11	3
12	4

To earn a semester exam exemption, the student must have:

- at least an 85 average in the class.
- at most 3 absences from the class during the semester.
 - Absences that count against exemptions:
 - A - Excused
 - U - Unexcused
 - W - Parent note
- no ISS, OSS or DAEP placements during the semester.
- no outstanding fines.
- a completed exemption request form submitted to the office.

Class Rank and Grade Point Average

Melissa ISD will calculate class rank as follows:

1. Rank shall be determined after each semester.
2. Final senior ranking shall be determined after the third quarter of the student's senior year.
3. Only the following core courses will be used to calculate GPA and class rank:

Subject Area	Courses
English Language Arts	English 1, Honors English 1, English 2, Honors English 2, English 3, Honors English 3, English 4, Dual Credit English 4, Business English, College Prep English
Mathematics	Algebra 1, Honors Algebra 1, Geometry, Honors Geometry, Algebraic Reasoning, Algebra 2, Honors Algebra 2, Statistics, Precalculus, Dual Credit College Algebra and Dual Credit Statistics, Dual Credit Precalculus and Dual Credit Calculus 1, Financial Mathematics, Math Models with Applications, College Prep Math
Science	Biology, Honors Biology, Integrated Physics & Chemistry, Chemistry, Honors Chemistry, Physics, Honors Physics, Anatomy & Physiology, Environmental Science, Dual Credit Environmental Science
Social Studies	World Geography, Honors World Geography, World History, Honors World History, U.S. History, Dual Credit U.S. History, Government, Dual Credit Government, Economics, Dual Credit Economics

4. The valedictorian and the salutatorian shall be the students with the highest and second highest weighted grade point average (GPA) who have been enrolled in the District continuously, commencing with enrollment before the first day of the second nine-week grading period of the students' junior year until graduation. (MISD Board Policy, EIC Local) Grade points shall be assigned according to the following chart:

Numerical Grade	Honors	Academic
100	5.0	4.0
99	4.9	3.9
98	4.8	3.8
97	4.7	3.7
96	4.6	3.6
95	4.5	3.5
94	4.4	3.4
93	4.3	3.3
92	4.2	3.2
91	4.1	3.1
90	4.0	3.0
89	3.9	2.9
88	3.8	2.8
87	3.7	2.7
86	3.6	2.6
85	3.5	2.5
84	3.4	2.4
83	3.3	2.3
82	3.2	2.2
81	3.1	2.1
80	3.0	2.0
79	2.9	1.9
78	2.8	1.8
77	2.7	1.7
76	2.6	1.6
75	2.5	1.5
74	2.4	1.4
73	2.3	1.3
72	2.2	1.2
71	2.1	1.1
70	2.0	1.0
69	1.9	0.9
68	1.8	0.8
67	1.7	0.7
66	1.6	0.6
65	1.5	0.5
64	1.4	0.4
63	1.3	0.3
62	1.2	0.2
61	1.1	0.1
60	1.0	0.0

Guidelines and Requirements for Honors and Dual Credit Courses

Courses designated as “Honors” and “Dual Credit” are taught at an accelerated rate and an advanced level of sophistication. As such, those courses contributing to GPA and class rank are weighted on the 5.0 “Honors” scale.

Courses designated as “Dual Credit” are college courses for which students will earn both high school and college credit. In addition to meeting all requirements for admission to the college, students’ academic records must meet the following criteria before enrolling in a Dual Credit course*:

1. Current GPA of 3.0 or higher
2. Passing score on the EOC(s) in the subject of the Dual Credit course, where applicable
3. Passing grade in each semester of each course in the subject of the Dual Credit course

**The principal may waive one of these three criteria in exceptional cases.*

Melissa High School will continue to pay for Dual Credit course tuition and fees. Students will be responsible for purchasing their own textbooks from the college bookstore or through other online resources.

A strong work ethic and a desire to learn are the key ingredients for success in any honors and dual credit level course. Students who wish to enroll in these courses must be prepared for an increased workload and be committed to meeting increased expectations. In general, the recommended preparation for success in an honors or dual credit course is a final grade of at least 80 in the previous honors or dual credit course. The course descriptions in this catalog provide details. Students considering changes from academic courses to honors or dual credit courses should consult with their counselor and subject area teachers during the course selection process for any additional entry requirements.

Students earning grades of below 70 at the 3 weeks progress report or thereafter will be placed on academic probation for that course which will include parent conferences and mandatory tutorials/academic sessions. Students on academic probation for more than 3 weeks who continue to earn a grade of 70 or below may be removed from the honors course and placed in the on-level academic course.

Eligibility for Extracurricular Activities

Most activities involving interscholastic competition are governed by the University Interscholastic League (UIL). Students must maintain grades of 70 or higher in all Academic courses and grades of 60 or higher in all Honors courses to participate in UIL activities. Grades in Dual Credit courses do not affect UIL eligibility. Sponsors of individual programs may set requirements for participation above and beyond these campus-wide standards.

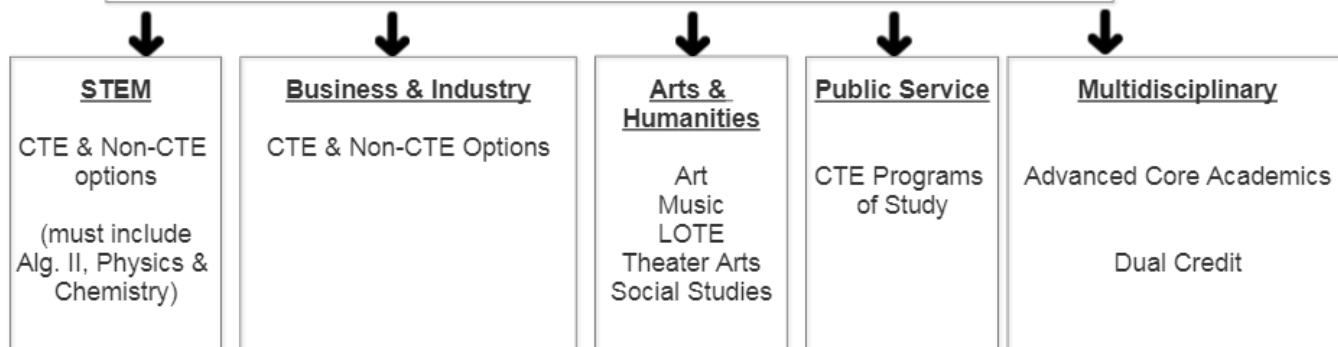
Graduation Requirements

Foundation Plan-22 Credits-All Students

4 English Credits
3 Math Credits
3 Science Credits
3 Social Studies Credits
2 LOTE Credits
1 PE Credit
1 Fine Arts Credit
5 Elective Credits

Foundation + Endorsement Plan- 26 Credits

1 Math credit in addition to the Foundation Plan
1 Science credit in addition to the Foundation Plan
At least 4 of the 26 credits must be in a coherent sequence & content specific to an Endorsement Area



Distinguished Level of Achievement

1 Math Credit in addition to the Foundation Plan-Math Sequence MUST include Algebra II
1 Science Credit in addition to the Foundation Plan
At least 4 of the 26 Credits must be in a coherent sequence & content-specific to an Endorsement Area

Performance Acknowledgments

Advanced Coursework
Bilingualism/Bi-Literacy
College Ready Exam
Workforce Readiness

Arts and Humanities
Must complete foundation and general requirements AND one of the following

5 Social Studies
U S History
World History
World Geography
US Govt/Econ
Psychology/Sociology

LOTE
4 levels of the same language in a language other than English

LOTE
2 levels in one language other than English AND
2 levels in another language other than English

Art Electives
A coherent sequence selected from 1-2 categories:
Art I-IV
Music I-IV
Theater I-IV
Musical Theater I-IV
Technical Theater I-IV

Multi-Disciplinary
Must complete foundation and general requirements AND one of the following

Advanced Courses
4 advanced courses from one endorsement area or across endorsement areas
(See list of district recognized Advanced Courses)

4 Courses in 4 Cores
4 Math
4 Science including Chemistry and/or Physics
4 English including English I-IV
4 Social Studies

4 Dual Credit Courses (24 college hours)
4 Dual Credit courses selected from English, Math, Science, Social Studies, Language Other Than English, or Fine Arts

Non-CTE Business & STEM
Must complete foundation and general requirements AND one of the following

Business through Debate
BIM I
Debate I
Debate II
Debate III

Academic Stem-Math
5 credits in math Including Algebra I & II, Geometry & 2 more from:
Precalculus, Dual Credit College Algebra & Statistics, Dual Credit Calculus

Academic Stem-Science
5 credits in science including Biology, Chemistry, Physics and 2 more:
Anatomy and Physiology, Environmental Systems, Dual Credit Env. Science

CTE Endorsements and Related Programs of Study

Programs of Study

Endorsement Business and Industry	Business Information Management	Networking Systems
	Business Information Management I * Advertising and Social Media Marketing Entrepreneurship I Entrepreneurship II Practicum in Entrepreneurship (2-3 credits)	Principles of Information Technology * Computer Maintenance/w Lab possible (1 or 2 credits) Networking/ w Lab possible (1 or 2 credits) Practicum or Career Prep in Information Tech (2-3 credits)
	Marketing and Sales	Programming & Software Development
	Advertising and Social Media Marketing Sports and Entertainment Marketing I and II Practicum in Entrepreneurship or Marketing or Career Prep (2-3 credits)	Computer Science I Computer Science II (Advanced Course) Computer Science III (Advanced Course) Practicum or Career Prep in Information Tech (2-3 credits)
	Business Management	Digital Communication (Broadcast)
	Business Information Management I * Business Information Management II Business Management Practicum in Business Mgmt or Career Prep (2-3 credits) or Statistics & Business Decision Making (1 credit)	Principles of Arts, A/V, Technology and Communication * Audio/Video Production/Lab I (1 or 2 credits) Audio/Video Production/Lab II (1 or 2 credits) Practicum or Career Prep (2-3 credits)
	Accounting and Financial Services	HVAC and Sheet Metal
	Business Information Management I * Accounting I Accounting II Securities and Investments or Practicum in Accounting or Career Prep (2 or 3 credits)	Business Information Management I * Professional Communications/Dollars and Sense HVAC I (2 credits) HVAC II (2 credits)
	Design & Multimedia Art (Design)	Automotive
	Principles of Art/AV/Tech & Communication * Graphic Design I or Dig Art & Animation or Fashion Design I Graphic Design II or 3D Animation or Fashion Design II Practicum or Career Prep in Graphic Design	Business Information Management I * Dollars and Sense/ Professional Communication Automotive Tech (2 credits) Advanced Automotive (2 credits)
Design and Multimedia Art (Mass Comm)		
Principles of Arts, AV Technology and Communication * or Digital Media Graphic Design I (Mass Communications emphasis) Graphic Design II/Lab (Mass Communications emphasis) 1-2 credits Practicum or Career Prep (2 credits)		

CTE Endorsements and Related Programs of Study

Programs of Study

Endorsement Public Service	Law Enforcement	Programming & Software Development
	Law Enforcement I Law Enforcement II Criminal Investigations Practicum or Career Prep (2 credits) or Counseling & Mental Health (1 credit)	Computer Science I Computer Science II Computer Science III Practicum or Career Prep in Information Tech (2 credits)
	Health Science	Cybersecurity
	Principles of Health Science Medical Terminology ** Health Science Theory (Anatomy & Physiology as 4th Science recommended) Practicum in Health Science ** (2 credits)	Foundations of Cybersecurity Computer Maintenance/Lab (1 or 2 credits) or Computer Science I (1 credit) Networking I/ Lab (1 or 2 credits) Cybersecurity Capstone or Practicum or Project-Based Research/Independent Study (2 credits)
	Teaching and Training	Engineering
	Principles of Education and Training Child Development Instructional Practices (2 credits)	Principles of Applied Engineering * Manufacturing Engineering Tech Engineering Design and Presentation ** Engineering Design and Problem Solving
	Cosmetology	
	Business Information Management I * Professional Communications/Dollars and Sense Cosmetology I (3 credits) Cosmetology II (3 credits)	
	Exercise Science and Wellness	
	Lifetime Nutrition and Wellness (.5) Principles of Exercise Science and Wellness (1) Kinesiology I Kinesiology II (1) and/or Anatomy and Physiology (1) Career Prep (2)	
* Offered at the MS and HS ** Dual Credit Options available	Program of Study - Concentrators: must complete at least 2 credits in the Same Program of study. Program of Study - Completers: must have at least 3 courses for 4 or more credits with at least 1 advanced course in the same Program of Study	

Courses

Melissa High School will offer the following courses as determined by student interest and resource availability on a year-to-year basis.

English Language Arts

ENGLISH 1

Weight: Academic

Credit: 1

This course is designed to place emphasis on fundamental language skills: reading, writing, speaking, listening, viewing and presenting. An emphasis on vocabulary and composition skills will be an on-going part of the program. The course includes studies of various literary genres: short story, poetry, novel, drama and non-fiction. The development of critical reading and critical writing skills is a major emphasis of the course.

HONORS ENGLISH 1

Weight: Honors

Credit: 1

Recommended Preparation: Final Grade of 80 or higher in Honors 8th Grade English

Students will participate in a general review of grammar with emphasis upon usage. Strong attention will be given to the development of composition and critical reading skills. Vocabulary development and outside reading will complement each credit of study. All literature study will be supported by composition. Literary emphasis includes the short story, novel, drama and poetry. *Enrollment may require a summer reading assignment.*

ENGLISH 2

Weight: Academic

Credit: 1

Prerequisite: English 1

This course includes a review of language skills, the teaching of intermediate composition skills, and an examination of literary themes and forms. The course includes study of various literary genres, short story, poetry, drama, non-fiction, and the novel. Emphasis in both semesters will be placed on vocabulary development, composition skills, critical reading and critical writing skills.

HONORS ENGLISH 2

Weight: Honors

Credit: 1

Prerequisite: English 1

Recommended Preparation: Final Grade of 80 or higher in Honors English 1

Students will review writing skills and extend their study of vocabulary, the short story, novel, poetry, and drama. Strong attention will be given to the development of persuasive composition and critical reading skills. Composition will support all literature study. Outside reading assignments will continue. New areas of emphasis will be the development of research skills and rhetoric. *Enrollment may require a summer reading assignment.*

ENGLISH 3

Weight: Academic

Credit: 1

Prerequisite: English 2

This course continues emphasis on composition skills, vocabulary skills and literary analysis. The student will explore English as a developing and changing language. Students will study the development of American Literature and important American authors. All literary study is supported by composition with an emphasis in rhetoric. Students will also be engaged in writing research papers and literary analysis papers.

HONORS ENGLISH 3

Weight: Honors

Credit: 1

Prerequisite: English 2

Recommended Preparation: Final Grade of 80 or higher in Honors English 2

This course is designed for students who wish to have a more challenging and rigorous English III experience. In addition to the emphasis areas listed for English III, English III Honors students will be afforded opportunities to engage in lengthier and more challenging reading and writing experience with more sophisticated levels of instruction and more advanced skill work. Ultimately, this course prepares them for dual credit English IV.

ENGLISH 4

Weight: Academic

Credit: 1

Prerequisite: English 3

This course includes a final review of all language skills together with a study of the ideas and culture presented in English literature. Students will receive continued composition practice including critical literary and analysis skills. Students will focus on British literature and authors to examine the breadth of authors of the time period.

DUAL CREDIT ENGLISH 4: ENGLISH COMPOSITION I (Fall Semester)

Weight: Honors

Credit: .5

Prerequisite: English 3 Honors (Final grade 80 or higher) and must meet TSI college-readiness standard for Reading and Writing; or equivalent. Upon successful completion of the course, students can earn 3 college credit hours while simultaneously earning credit for English IV.

This course is an Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis 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.

DUAL CREDIT ENGLISH 4: ENGLISH COMPOSITION II (Spring Semester)

Weight: Honors

Credit: .5

Prerequisite: English 1301. Upon successful completion of the course, students can earn 3 college credit hours while simultaneously earning credit for English IV.

This is the second course in the college freshman English track. It is an intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis 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. Lab required.

BUSINESS ENGLISH

Weight: Academic

Credit: 1

Prerequisite: English 3

This CTE course enhances communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology. *Note: This course is open to seniors only. Students will receive credit for English 4. However, Business English is not recognized as Advanced English for the NCAA Clearinghouse.*

NEWSPAPER, YEARBOOK (see CTE- Mass Communications)

COLLEGE PREP ENGLISH

Weight: Academic

Credit: .5 to 1

Prerequisite: Completion of English 1, 2 and 3

This course is designed to increase the college readiness of current high school students in English Language Arts. This course is intended for college bound students at 12th grade whose performance indicates the student is not ready to perform entry level college coursework, but is committed to progressing to higher education. College Prep English may be used to fulfill the 4th year Advanced English requirement. *However, this course is not recognized as an English credit for the NCAA Clearinghouse.*

Mathematics

ALGEBRA 1

Weight: Academic

Credit: 1

In Algebra I, students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables and will create new functions through transformations.

HONORS ALGEBRA 1

Weight: Honors

Credit: 1

Prerequisite: 8th Grade Mathematics

Recommended Preparation: Final Grade of 80 or higher in Honors 8th Grade Mathematics

Honors Algebra I students will study linear, quadratic, and exponential functions and their related transformations, equations, and associated solutions. Students will connect functions and their associated solutions in both mathematical and real-world situations. In addition, students will study polynomials of degree one and two, radical expressions, sequences, and laws of exponents. Students will generate and solve linear systems with two equations and two variables using multiple strategies and will create new functions through transformations.

GEOMETRY

Weight: Academic

Credit: 1

Prerequisite: Algebra 1

Geometry students will begin to focus on more precise terminology and symbolic representations. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Proportionality is the unifying component of the similarity, proof, and trigonometry strand. The two- and three-dimensional figure strand focuses on the application of formulas in multi-step situations since students have developed background knowledge in two- and three-dimensional figures. Using patterns to identify geometric properties, students will apply theorems about circles to determine relationships between special segments and angles in circles.

HONORS GEOMETRY

Weight: Honors

Credit: 1

Prerequisite: Algebra 1

Recommended Preparation: Final Grade of 80 or higher in Honors Algebra 1

Honors Geometry students will begin to focus on more precise terminology, symbolic representations, and the development of proofs. Students will explore concepts covering coordinate and transformational geometry; logical argument and constructions; proof and congruence; similarity, proof, and trigonometry; two- and three-dimensional figures; circles; and probability. Proportionality is the unifying component of the similarity, proof, and trigonometry strand. The two- and three-dimensional figure strand focuses on the application of formulas in multi-step situations since students have developed background knowledge in two- and three-dimensional figures. Using patterns to identify geometric properties, students will apply theorems about circles to determine relationships between special segments and angles in circles. Due to the emphasis of probability and statistics in the college and career readiness standards, standards dealing with probability have been added to the geometry curriculum to ensure students have proper exposure to these topics before pursuing their post-secondary education.

ALGEBRAIC REASONING

Weight: Academic

Credit: 1

Prerequisite: Algebra 1

In Algebraic Reasoning, students will deepen their understanding of algebraic processes and broaden their knowledge of functions and relationships. Students will study functions through analysis and application that include explorations of patterns and structure, numerical and algebraic methods, and modeling from data using appropriate measurement and software tools.

FINANCIAL MATHEMATICS

Weight: Academic

Credit: 1

Prerequisite: Algebra 1

This CTE course is about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. This course satisfies a high school mathematics graduation requirement.

STATISTICS

Weight: Academic

Credit: 1

Prerequisite: Algebra 1

Recommended Preparation: Two years of high school math

Statistics students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis.

ALGEBRA 2

Weight: Academic

Credit: 1

Prerequisite: Algebra 1

Algebra II students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations.

HONORS ALGEBRA 2

Weight: Honors

Credit: 1

Prerequisite: Algebra 1

Recommended Preparation: Final Grade of 80 or higher in Honors Geometry

Honors Algebra II students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will study logarithmic, square root, cubic, cube root, absolute value, rational functions, and their related equations. Students will connect functions to their inverses and associated equations and solutions in both mathematical and real-world situations. In addition, students will be introduced to and begin practicing techniques to pass the ACT and SAT with an emphasis on Trigonometry.

MATHEMATICAL MODELS WITH APPLICATIONS

Weight: Academic

Credit: 1

Prerequisite: Algebra I

Mathematical Models with Applications provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions. Students will select from tools such as physical objects; manipulatives; technology, including graphing calculators, data collection devices, and computers; and paper and pencil and from methods such as algebraic techniques, geometric reasoning, patterns, and mental math to solve problems.

HONORS PRECALCULUS

Weight: Honors

Credit: 1

Prerequisite: Algebra I, Algebra 2 and Geometry

Recommended Preparation: Final Grade of 80 or higher in Algebra 2

Precalculus approaches topics from a function point of view. Students systematically work with functions and their multiple representations. The study of Precalculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

DUAL CREDIT COLLEGE ALGEBRA and STATISTICS

Weight: Honors

Credit: .5 each

Prerequisite: Algebra 2 and TSI college readiness standard for Mathematics

Recommended Preparation: Final Grade of 80 or higher in Honors Algebra 2

Dual Credit College Algebra covers an in-depth study of quadratic, polynomial, rational, exponential and logarithmic functions, as well as systems of equations and their applications. Arithmetic and geometric progressions; sequences and series; and matrices and determinants also are discussed.

Dual Credit Statistics covers the 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. Graphing calculator is required. Lab is required.

DUAL CREDIT PRECALCULUS and CALCULUS I

Weight: Honors

Credit: 1

Prerequisite: Dual Credit College Algebra

Recommended Preparation: Final Grade of 80 or higher in Dual Credit College Algebra

Dual Credit Precalculus provides a thorough treatment of trigonometric functions and their graphs; radian measurement; solution of triangles; trigonometric identities; trigonometric equations; applications of trigonometry; polar coordinates; parametric curves; and an introduction to limits.

Dual Credit Calculus I is a full course in single variable calculus for science majors. All standard topics will be covered, including limits and continuity; the Fundamental Theorem of Calculus; definition of the derivative of a function and techniques of differentiation; applications of the derivative; the chain rule, mean value theorem, and rate of change problems; curve sketching; definite and indefinite integration of algebraic, trigonometric, and transcendental functions, with applications; parametric equations and polar coordinates; advanced techniques of integration; sequences and series; and improper integrals.

COLLEGE PREP MATHEMATICS

Weight: Academic

Credit: 1

Prerequisite: Algebra 1, Geometry and Algebra 2

College Prep Mathematics provides a smoother transition from high school math to college-level mathematics courses. Intended for college bound twelfth graders who are not yet college-ready, students who successfully complete and pass this course, will be TSI math exempt. This course is a study of relations and function, inequalities, algebraic expressions and equations with a special emphasis on linear and quadratic expressions and equations. *College Prep Mathematics satisfies the 4th year Advanced Math requirement, but is not recognized as a mathematics for credit for the NCAA Eligibility Center.*

Science

BIOLOGY

Weight: Academic

Credit: 1

Biology students classify, compare and analyze organisms and systems; identify variables, clarify operational terms and communicate data verbally and graphically; and evaluate research. The course emphasizes using manipulative laboratory materials and equipment to acquire data through the senses.

HONORS BIOLOGY

Weight: Honors

Credit: 1

Recommended Preparation: Final Grade of 80 or higher in Honors 8th grade Science

Honors Biology will exceed the requirements of the regular course of study by providing students with a more rigorous, comprehensive and analytical study of biology involving more group and problem solving skills. Students will work in lecture, discussion, laboratory and project situations with the emphasis on practical applications of biological sciences.

CHEMISTRY

Weight: Academic

Credit: 1

Prerequisite: Algebra 1 and one high school Science credit

Chemistry is the study of the composition, structure, and properties of substances and the changes they undergo. Chemistry includes acquiring data, communication of data, manipulative laboratory skills, concepts and skills of measurement, drawing logical inferences, predicting outcomes and forming generalized statements, applying defined terms based on observations, identifying and manipulating the conditions of investigations, and applications of chemistry in daily life. Topics include the organization of matter, chemical equations and stoichiometry, phases of matter, solutions, chemical reactions, and acid/base chemistry.

HONORS CHEMISTRY

Weight: Honors

Credit: 1

Prerequisite: Algebra 1 and one high school Science credit

Recommended Preparation: Final Grade of 80 or higher in Algebra 1

Honors Chemistry will exceed the requirements of the regular course of study by providing students with a more rigorous, comprehensive and analytical study of chemistry involving more group and problem solving skills. Students will work in lecture, discussion, laboratory and project situations with the emphasis on preparation for College Chemistry.

PHYSICS

Weight: Academic

Credit: 1

Prerequisite: Algebra 1

Recommended Preparation: Junior Standing

Physics is the study of matter and energy and their interactions. Students are introduced to fundamental concepts in the areas of mechanics, light, sound, heat, electricity and magnetism, as well as atomic and nuclear physics. Student investigations emphasize accurate observation, collection and analysis of data. Additional topics may include vector representations and relativity theories.

HONORS PHYSICS

Weight: Honors

Credit: 1

Prerequisite: Algebra 1

Recommended Preparation: Junior Standing and Final Grade of 80 or higher in Honors Algebra 2

Honors Physics will exceed the requirements of the regular course of study by providing students with a more rigorous and math-intensive study of physics. Vector representations will be emphasized and additional topics may be introduced.

ANATOMY AND PHYSIOLOGY

Weight: Academic

Credit: 1

Prerequisite: Three high school science credits (1 may be taken concurrently)

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods and make informed decisions using critical thinking and scientific problem solving. Students learn about a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

ENVIRONMENTAL SYSTEMS

Weight: Academic

Credit: 1

Prerequisite: 1 credit of a Life Science and 1 credit of a Physical Science

Recommended Preparation: Three high school science credits (1 may be taken concurrently)

Environmental Systems applies the scientific process to environmental analysis. Key topics will include ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. This course also will discuss management of natural resources and analysis of private and governmental decisions involving the environment. Students will examine case studies and conduct hands-on research, learning that decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

DUAL CREDIT ENVIRONMENTAL SCIENCE

Weight: Honors

Credit: 1

Prerequisite: 1 credit of a Life Science and 1 credit of a Physical Science

Recommended Preparation: Final Grade of 80 or higher in Honors Physics

Dual Credit Environmental Science provides a survey of the forces, including humans, which shape our physical and biologic environment, and how they affect life on Earth. Students will be introduced to the science and policy of global and regional environmental issues, including pollution, climate change, and sustainability of land, water, and energy resources.

INTEGRATED PHYSICS AND CHEMISTRY

Weight: Academic

Credit: 1

IPC integrates the disciplines of physics and chemistry in topics such as: motion, waves, energy, transformations, properties of matter, changes in matter, and solution chemistry. The use of technology and laboratory investigation will be a primary focus in instruction. Student investigations emphasize accurate observations, collection of data, data analysis, and the safe manipulation of laboratory apparatus and materials in the laboratory.

Social Studies

WORLD GEOGRAPHY

Weight: Academic

Credit: 1

World Geography is the study of the world's people, places, and environments, with a focus on world regions. Students will explore the physical processes that shape patterns in the physical environment; the characteristics of major landforms, climates, and ecosystems and their interrelationships; the political, economic, and social processes that shape cultural patterns of regions; types and patterns of settlement; the distribution and movement of the world population; and relationships among people, places, and environments. Students describe the influence of geography on events of the past and present. Particular emphasis is placed on understanding geographic concepts and skills and applying them to students' daily lives.

HONORS WORLD GEOGRAPHY

Weight: Honors

Credit: 1

Recommended Preparation: Final Grade of 80 or higher in Honors 8th Grade Social Studies

In Honors World Geography, students will make greater use of geographic resources, inquiry, research, and technology skills to ask and answer geographic questions for a more in-depth study of World Geography.

WORLD HISTORY

Weight: Academic

Credit: 1

World History is a survey of the history of humankind, emphasizing the study of significant people, events, and issues from the earliest times to the present. Traditional points of reference are identified as students analyze important events and issues in western and nonwestern civilizations. Students will examine political and economic imperialism, major political revolutions, geographic influences on historical events, development of contemporary economic systems, evolution of constitutional governments, development of major legal concepts, major religious and philosophical traditions and the connection of major developments in science and technology with the growth of industrial economies.

HONORS WORLD HISTORY

Weight: Honors

Credit: 1

Recommended Preparation: Final Grade of 80 or higher in Honors World Geography

Encounters between human populations who perceive the differences that separate them to be greater than the similarities that unite them have punctuated world history. Such encounters have frequently led to war, imperialism and colonization, and less frequently to cultural imitation and syncretism. The modern world is the product of these encounters as much as, if not more than, it is the product of the development of distinct regional cultures, such as Western Civilization. This course explores the nature of such encounters and the consequences they have had for cultural and political developments.

UNITED STATES HISTORY

Weight: Academic

Credit: 1

This course is a history of the United States from 1877 through the present. Emphasis is given to America's development as a nation built on free enterprise, a world power among nations, and a democratic society based on government by Constitutional laws. Historical content focuses on the political, economic and social events and issues related to industrialization and urbanization, major wars, domestic and foreign policies, and reform movements, including civil rights.

DUAL CREDIT UNITED STATES HISTORY

Weight: Honors

Credit: 1

Recommended Preparation: Final Grade of 80 or higher in Honors World History

Dual Credit US History is a broad interdisciplinary course in the historical development of the United States and North America from pre-colonial to modern times. Assignments will focus on reading, writing, and analysis.

GOVERNMENT

Weight: Academic

Credit: .5

Recommended Preparation: Senior standing

This course provides an opportunity to explore political and governing processes, theories, structures and functions. Content includes such topics as the political processes at national, state, and local governmental levels; the political heritage; comparative economic systems; and international relations. Emphasis is placed on concepts of the free enterprise system, political participation, leadership, decision making, political institutions, nature of laws, and the rights and responsibilities of American citizenship.

ECONOMICS

Weight: Academic

Credit: .5

Recommended Preparation: Senior standing

This course is designed to provide opportunities for students to identify and analyze characteristics and goals of the American free enterprise system. Emphasis is given to the basic principles and theories of production, consumption, and distribution of goods and services. Essential elements of the course include private ownership of property, the role of government, international economic relations, consumer economics, and monetary systems of money and banking.

DUAL CREDIT GOVERNMENT and ECONOMICS

Weight: Honors

Credit: .5 each

Recommended Preparation: Final Grade of 80 or higher in Dual Credit United States History

Dual Credit Government is a survey of the underlying ideas, principles, and participatory practices of constitutional government in the United States and Texas. Topics considered include civil liberties and civil rights, constitutionalism, federalism, ideology, pluralism, political culture and socialization, political parties and interest groups, public opinion, republicanism, and voting and electoral politics.

Dual Credit Economics introduces students to the workings and interrelationships of the U.S. and world economics. Topics covered include principles of economic analysis including measurement of aggregate economic activity, national income determination, money and banking, monetary and fiscal policy, and business fluctuation. Emphasis is given to analyzing real world problems such as poverty, inflation, unemployment, and economic instability.

PSYCHOLOGY

Weight: Non-GPA

Credit: .5

Recommended Preparation: Final Grade of 80 or higher in World History

Psychology focuses on theoretical models of learning, cognition and motivation as well as factors that impact learning and applications of learning strategies. Students will use assessment instruments to

identify their own strengths and weaknesses as strategic learners and apply learning skills to coursework.

In Psychology, an elective course, students study the science of behavior and mental processes. Students examine the full scope of the science of psychology such as the historical framework, methodologies, human development, motivation, emotion, sensation, perception, personality development, cognition, learning, intelligence, biological foundations, mental health, and social psychology.

SOCIOLOGY

Weight: Non-GPA

Credit: .5

Recommended Preparation: Final Grade of 80 or higher in World History

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology.

Sociology, an elective course, is an introductory study in social behavior and organization of human society. This course will describe the development of the field as a social science by identifying methods and strategies of research leading to an understanding of how the individual relates to society and the ever changing world. Students will also learn the importance and role of culture, social structure, socialization, and social change in today's society.

PERSONAL FINANCIAL LITERACY

Weight: Non-GPA

Credit .5

Students in Personal Financial Literacy will develop their abilities to make sound financial decisions. This course will teach students to apply critical-thinking and problem-solving skills to relevant financial situations. Students examine the effects of compound interest on investments and debt and how these concepts affect the building of wealth over time. Students analyze the relationship between education and training and earning potential; evaluate the quality and cost of postsecondary education and training options; and analyze various methods to pay for these options.

World Languages

AMERICAN SIGN LANGUAGE 1

Weight: Non-GPA

Credit: 1

Students in American Sign Language 1 develop the ability to understand ASL phrases receptively and respond expressively when dealing with familiar topics; sign learned words, concepts, phrases, and

sentences; recognize the importance of communication and how it applies to the American Deaf culture; and recognize the importance of accuracy of expression by knowing the components of ASL.

AMERICAN SIGN LANGUAGE 2

Weight: Non-GPA

Credit: 1

Prerequisite: American Sign Language 1

American Sign Language 2 will extend and enrich the topics introduced in American Sign Language 1. Students will learn to utilize more directional verbs, deeper levels of description with classifiers, and expanded receptive and expressive skills. We also will continue to explore deaf culture. The course will include storytelling with ABC and number stories, as well as De'VIA art. Receptive and Expressive proficiency will be tested throughout the year.

HONORS AMERICAN SIGN LANGUAGE 3

Weight: Non-GPA

Credit: 1

Prerequisite: American Sign Language 2

Students in Honors American Sign Language 3 improve the ability to understand ASL phrases receptively and expressively when discussing family history, life cycles, global events and nationalities. Students improve storytelling and practical use of directions through classifiers. Students will experience greater exposure to the Deaf community and deeper understanding of Deaf culture, as well as exploring ASL storytelling and poetry.

HONORS AMERICAN SIGN LANGUAGE 4

Weight: Non-GPA

Credit: 1

Prerequisite: Honors American Sign Language 3

Honors Sign Language 4 provides a review and application of conversational skills in American Sign Language and provides intensive practice in interpreting from signing to voice as well as from voice to signing, while increasing vocabulary. The course provides an introduction to American Sign Language literature and folklore. Students will develop speed in expressive and receptive skills in fingerspelling and numbers.

SPANISH 1

Weight: Non-GPA

Credit: 1

Spanish 1 is a course for beginners. The course will establish basic vocabulary and elementary conversation skills. Listening and reading comprehension skills will be taught. Cultural points of interest will be covered. Speaking, listening, reading and writing proficiency will be tested throughout the year.

SPANISH 2

Weight: Non-GPA

Credit: 1

Prerequisite: Spanish 1

Spanish 2 students will learn the three most common verb tenses. Points of cultural interest will be presented, as well as situations with opportunities for broadening vocabulary and concepts of the language. Speaking, listening, reading and writing proficiency will be tested throughout the year.

HONORS SPANISH 3

Weight: Non-GPA

Credit: 1

Prerequisite: Spanish 2

Recommended Preparation: Final Grade of 80 or higher in Spanish 2

Honors Spanish 3 students will focus on five commonly used verb tenses. The compound tenses will be learned and used in all skill levels including reading, writing, listening, and speaking. Points of cultural interest will be presented, as well as situations with opportunities for broadening vocabulary and concepts of the language. Speaking, listening, reading and writing proficiency will be tested throughout the year.

HONORS SPANISH 4

Weight: Non-GPA

Credit: 1

Prerequisite: Spanish 3

Recommended Preparation: Final Grade of 80 or higher in Honors Spanish 3

Honors Spanish 4 students will add two more useful verb tenses, and will be able to use all seven verb tenses comfortably. Points of cultural interest will be presented, as well as situations with opportunities for broadening vocabulary and concepts of the language. Speaking, listening, reading, & writing proficiency will be tested throughout the year.

HONORS SPANISH 5

Weight: Non-GPA

Credit: 1

Prerequisite: Spanish 4

Recommended Preparation: Achieving an Intermediate Mid to Intermediate High proficiency level for Honors Spanish 4 in listening, reading, writing and speaking.

Honors Spanish 5 students will use all the knowledge they gained in Spanish 1-4 and apply it to real-world situations. Students will discuss current events, analyze literature, and experience Hispanic

culture as they work on achieving true fluency. Students will leave Spanish 5 prepared for college Spanish and real communication with Spanish speakers.

COMPUTER SCIENCE 1 and 2

Weight: Non-GPA

Credit: 1

Prerequisite: Algebra I (Computer Science 1 **must** be completed prior to taking Computer Science 2)

Computer Science 1 and 2 will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. **Note: These 2 courses combined fulfill the Foundation high school diploma World Languages requirement.**

Fine Arts

ART 1, 2, 3, 4

Weight: Non-GPA

Credit: 1

Art students will explore basic principles of two- and three-dimensional art through drawing, painting, printing and the creation of multimedia projects. Students will apply principles such as emphasis, balance and movement in developing and evaluating artistic work. Art courses include the study of artistic styles and artists as well as vocabulary related to various media and techniques.

DIGITAL ART AND ANIMATION

Weight: Non-GPA

Credit: 1

Students use the computer as a fine art tool to create original two-dimensional and three-dimensional works of art. This course offers an introduction to the elements and principles of design as they relate to the work being created in class as well as work created by master artists in the field.

3-D MODELING AND ANIMATION

Weight: Non-GPA

Credit: 1

3-D Modeling and Animation consists of computer images created in a virtual three-dimensional (3-D) environment. 3-D Modeling and Animation has applications in many careers, including criminal justice, crime scene, and legal applications; construction and architecture; engineering and design; and the movie and game industries. Students in this course will produce various 3-D models of real-world objects.

CHOIR 1, 2, 3, 4

Weight: Non-GPA

Credit: 1

Membership in the Melissa Choral Department is open to all interested students. Choir courses will focus on the development of vocal and sight-reading skills through the performance of a variety of styles of music. Participation in concert programs and competitive events will take place throughout the year. Attendance at after school performances and rehearsals will be required. *This course requires additional course fees.*

BAND 1, 2, 3, 4

Weight: Non-GPA

Credit: 1

Band members will rehearse and perform as members of various large and small ensembles, including the Wind Ensemble, Symphonic Band, Marching Band and Percussion Ensemble. While every aspect of the band program focuses on the development of individual student musicianship through performance, membership in specific ensembles is determined by instrumentation needs and audition results. Attendance at activities including football games, contests, parades and other trips is required. *This course requires additional course fees.*

JAZZ ENSEMBLE 1, 2, 3, 4

Weight: Non-GPA

Credit: 1

Prerequisite: Audition and Director Approval

This course focuses on the study of jazz, rock, funk, fusion, Latin and big band-literature. Improvisation, jazz theory and jazz history will also be studied. Concurrent enrollment in a concert band class is required. Members must enroll for the entire school year.

COLOR GUARD 1, 2, 3, 4

Weight: Non-GPA

Credit: 1

Prerequisite: Audition

Guard members will gain an understanding of the fundamentals in various dance styles and develop skills with guard implements such as flag, rifle and sabre. Guard members will rehearse and perform as the Color Guard with the marching band during the fall semester and as a stand-alone Winter Guard during the spring semester. Any student who participates in Color Guard or Winter Guard must be enrolled in the class period. Attendance at activities including football games, contests, parades and other trips is required. Band students must be enrolled concurrently in Band and Color Guard. *This course requires additional course fees.*

MUSIC THEORY 1

Weight: Non-GPA

Credit: 1

Music Theory 1 includes an in-depth introduction to the fundamental elements of music: pitch, rhythm, melody, harmony and form. Students are likely to be most successful if they are familiar with musical notation and have some instrumental or vocal performance experience before enrolling in the course.

MUSIC THEORY 2, 3, 4

Weight: Non-GPA

Credit: 1

Prerequisite: Music Theory 1 and two credits of Band or Choir; or permission of instructor

Music Theory 2, 3 and 4 build on the skills developed in Music Theory 1 to develop fluency with basic music materials and the fundamental elements of music. Students should be able to recognize and describe basic materials and processes of music as performed or presented scores before enrolling in the course. Enrolling students must be able to read musical notation and demonstrate instrumental or vocal performance competency.

THEATRE ARTS 1, 2, 3, 4

Weight: Non-GPA

Credit: 1

Theatre Arts presents an overview of the various performance and technical aspects of the theatre. Performance areas of study include but are not limited to improvisation, pantomime, mime, voice and diction, stage movement, and acting. Technical aspects discussed include design concepts of lighting, sound, scenery, props, makeup, costumes, and publicity. History of the theatre and careers in theatre will also be explored. Students will be involved in many performances, projects, and other theatrical exercises throughout the year. Students may be required to attend/participate in theatrical performances outside of class.

TECHNICAL THEATRE 1, 2, 3, 4

Weight: Non-GPA

Credit: 1

General areas of study in Technical Theatre include, but are not limited to: principles of costumes, make-up, scenery, lighting, sound design and application, and general stagecraft. History of the theatre and careers in the theatre are also explored. Students will be involved in many design projects, written projects, and tests throughout the year. This class will require stage setup, stage strike, including the use of hand tools, power tools, ladders and other equipment.

MUSICAL THEATRE 1, 2, 3, 4

Weight: Non-GPA

Credit: 1

Musical Theatre is an exploration of American Musical Theatre and the work of the actor/singer/dancer. In order to develop as performers, students will prepare material for class presentation and critique as soloists, as members of small groups and in larger ensembles. We will focus on the audition process as well as musical theatre history and repertoire. The class will participate in a culminating showcase performance at the end of the year. This course will expose students to a wide range of on-stage performance disciplines, including acting performance, vocal performance, and dance performance. The course will also provide an atmosphere in which students benefit from a teaching and learning experience in these performance disciplines of musical theatre. Students will receive comprehensive and rigorous instruction so that they may make informed choices about the craft, college, and the profession. The course will enhance and cultivate the creative gifts of each student while encouraging a sense of self-confidence. The course will enable students to study and perform the varied styles of musical theatre with special attention to the principles of stage movement, stage vocal technique, stage choreography, acting, characterization, and other aspects of a musical production.

THEATRE PRODUCTION 1, 2, 3, 4

Weight: Non-GPA

Credit: 1

Prerequisite: Audition

This course for advanced theatre students centers around the production of 2-4 shows per year. Students will explore various production aspects of the art of Theatre as productions vary. The class is largely project based and will require production/rehearsal hours outside of class as a component of the student's grade. The specifics of the course vary from production to production.

Physical Education

FOUNDATIONS OF PERSONAL FITNESS

Weight: Non-GPA

Credit: 1

The purpose of the course is to motivate students to strive for lifetime personal fitness with an emphasis on the health-related components of physical fitness. Students will learn about the process of becoming fit as well and achieve some degree of fitness within the class. The concept of wellness, or striving to reach optimal levels of health, is the cornerstone of this course.

ATHLETICS

Weight: Non-GPA

Credit: 1

Prerequisite: Athletic Director Approval

To achieve the maximum value from athletic program participation, athletes are expected to be enrolled for the full year in order to compete in any UIL sport.

PHYSICAL EDUCATION SUBSTITUTIONS

Some students may earn physical education credit for participation in cheerleading, marching band or certain off-campus activities. Students considering these options should work with a counselor to determine eligibility.

Career and Technical Education

PROFESSIONAL COMMUNICATIONS

Weight: Non-GPA

Credit: .5

For successful participation in professional and social life, students must develop effective communication skills. Rapidly expanding technologies as well as changing social and corporate systems demand that students learn to send clear verbal messages, choose effective nonverbal behaviors, listen for desired results, and apply valid critical thinking and problem solving processes. Students enrolled in Professional Communications will identify, analyze, develop, and evaluate communication skills needed for professional and social success in individual, small group and large group settings.

DOLLARS AND SENSE

Weight: Non-GPA

Credit: .5

This course focuses on consumer practices and responsibilities, money-management processes, decision-making skills, impact of technology, and preparation for human services careers. The student demonstrates management of individual and family resources such as finances, food, clothing, shelter and time. The student identifies skills and attributes necessary for sustaining a chosen lifestyle. The student also analyzes relationships between the economic system and consumer actions.

****Practicum, Career Prep and Project Based Research courses** are offered in multiple programs of study as the fourth year or capstone course of the program. **Practicum and Career Prep** options require students to have a class period on campus to work with a teacher on the skills that will be needed in the workplace in that field and then to work at least 10 hours a week in a job that relates to the field. These courses are worth **2-3 credits** depending on the hours a week worked. **Project Based Research** is a **1 credit** class where the student works on an in-depth project in the field, producing a product for presentation at the conclusion of the project.

BUSINESS AND INDUSTRY ENDORSEMENT

BUSINESS INFORMATION MANAGEMENT 1

Weight: Non-GPA

Credit: 1

In preparation for success in college and in the workplace, BIM 1 students learn to select and efficiently utilize appropriate information management tools. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop spreadsheets, formulate databases, and make electronic presentations using appropriate software

BUSINESS INFORMATION MANAGEMENT 2

Weight: Non-GPA

Credit: 1

Prerequisite: Business Information Management 1

Students in BIM 2 will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

BUSINESS MANAGEMENT

Weight: Non-GPA

Credit: 1

This course 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. Business Management allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

STATISTICS AND BUSINESS DECISION MAKING

Weight: Non-GPA

Credit: 1

This is an advanced course in the business program of study that fulfills a requirement of the Business and Industry Endorsement. Students will explore employability skills required by business and industry. Students will apply mathematics to problems arising in everyday life. Activities include research projects, presentations and lab simulations.

PRACTICUM OR CAREER PREP IN BUSINESS MANAGEMENT

Weight: Non-GPA

Credit: 2-3

PROJECT BASED RESEARCH IN BUSINESS MANAGEMENT

Weight: Non-GPA

Credit: 1

ADVERTISING

Weight: Non-GPA

Credit: .5

This is a comprehensive introduction to the principles and practices of advertising providing an overview of how communication tools can be used to reach target audiences and increase consumer knowledge. Students will gain knowledge and skill in current advertising techniques across print, broadcast, and digital media. The course explores the social, ethical, and legal issues of advertising as well as historical influences, strategies, and media decision processes.

SOCIAL MEDIA MARKETING

Weight: Non-GPA

Credit: .5

This course examines the rise of social media and how marketers integrate social media tools into their overall marketing strategy. Students will learn techniques for gaining consumer buy-in to achieve marketing goals and will intentionally select social media platforms to engage consumers. Students will manage a social media presence for an organization and measure the results of their efforts.

ENTREPRENEURSHIP 1

Weight: Non-GPA

Credit: 1

Recommended Preparation: Advertising and Social Media Marketing

Students in this course will explore the principles and processes needed to begin and operate a business. Students will analyze business opportunities, prepare business plans, determine feasibility of ideas, and develop plans to organize and promote businesses. In addition, students gain an understanding of required startup capital, expected return on investment, and potential for profit.

ENTREPRENEURSHIP 2

Weight: Non-GPA

Credit: 1

Prerequisite: Entrepreneurship I

Entrepreneurship II builds on the skills learned in Entrepreneurship I and offers a deeper dive into business creation, ownership, and sustainment.

PRACTICUM OR CAREER PREP IN ENTREPRENEURSHIP

Weight: Non-GPA

Credit 2-3

SPORTS AND ENTERTAINMENT MARKETING I

Weight: Non-GPA

Credit: .5

The course will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

SPORTS AND ENTERTAINMENT MARKETING II

Weight: Non-GPA

Credit: .5

Prerequisite: Sports and Entertainment Marketing I

The course is the second semester of the Sport and Entertainment Marketing I course.

PRACTICUM OR CAREER PREP IN MARKETING AND SALES

Weight: Non-GPA

Credit: 2-3

PROJECT BASED RESEARCH IN MARKETING AND SALES

Weight: Non-GPA

Credit: 1

ACCOUNTING I

Weight: Non- GPA

Credit: 1

Accounting I students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making. Accounting includes such activities as bookkeeping, systems design, analysis, and interpretation of accounting information.

ACCOUNTING II

Weight: Non- GPA

Credit: 1

Accounting II students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

PRACTICUM OR CAREER PREP IN ACCOUNTING

Weight: Non GPA

Credit: 2-3

PRINCIPLES OF INFORMATION TECHNOLOGY

Weight: Non-GPA

Credit: 1

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.

FOUNDATIONS OF CYBERSECURITY

Weight: Non GPA

Credit:1

Students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks. The skills obtained in this course prepare students for additional study in cybersecurity.

COMPUTER MAINTENANCE (WITH LAB POSSIBLE)

Weight: Non-GPA

Credit: 1 - 2 credits

Recommended Preparation: Principles of Information Technology

Students in this course will investigate the design, operation and maintenance of major computer hardware technologies as well as the principles and practices behind system software updates and network connections. This course will address appropriate documentation and other communication skills needed in the workplace. Students will apply technical skills in preparation for industry certification in IT support.

NETWORKING (WITH LAB POSSIBLE)

Weight: Non-GPA

Credit: 1

Recommended Preparation: Computer Maintenance

This course introduces students to the fundamental building blocks of a modern network, such as protocols, topologies, hardware, and network operating systems and provides in-depth coverage of important concepts, such as TCP/IP, Ethernet, wireless transmission, and security. Students will select optimal network designs, hardware, and software for specific environments. Students also will learn to build a network from scratch and to maintain, upgrade, and troubleshoot an existing network.

PRACTICUM OR CAREER PREP IN INFORMATION TECHNOLOGY

Weight: Non-GPA

Credit: 2 -3

Prerequisite: Networking

Students in the Practicum in Information Technology will gain advanced knowledge and skills in the design, production, implementation, application, maintenance, and evaluation of products, services, and systems. Students will display their critical thinking skills and professional potential through individualized capstone projects in relevant contemporary fields of Information Technology, such as Web Development or Programming. Students will define and defend their projects in a formal proposal, throughout development, and with the end product. This course requires teacher recommendation.

AUDIO/VIDEO PRODUCTION 1/LAB 1

Weight: Non-GPA

Credit: 1

Recommended Preparation: Principles of Arts, AV Technology and Communication or Digital Media Careers in audio/video technology and film production span all aspects of the communications industry. Within this context, Audio/Video Production students will develop a generalized understanding of the industry and build a foundational body of technical knowledge and skills needed for success in the arts, audio/video technology and communications. This course will address a wide range of topics related to the pre-production, production and post-production of audiovisual products.

AUDIO/VIDEO PRODUCTION 2/LAB 2

Weight: Non-GPA

Credit: 1

Prerequisite: Audio/Video Production 1

This course builds on the concepts taught in Audio/Video Production 1. In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills.

PRACTICUM OR CAREER PREP IN AUDIO VIDEO PRODUCTION

Weight: Non-GPA

Credit: 2-3

MASS COMMUNICATION PROGRAM

Mass communication has evolved from content generated largely through a paper medium and within silos of teams with a single focus to one that is largely digital and more collaborative. In an effort to more closely align instruction with the communications industry of today, students with interests in all communications industries will work in teams through 21st century course content. The parentheses next to the class titles indicate the previously offered areas of interest that the courses will address.

DIGITAL MEDIA (FOR YEARBOOK AND MASS COMMUNICATION)

Weight: Non-GPA

Credit: 1

In Digital Media, students will analyze and assess current and emerging technologies, while designing and creating multimedia projects that address customer needs and resolve a problem. Students will implement personal and interpersonal skills to prepare for a rapidly evolving workplace environment. The knowledge and skills acquired and practiced will enable students to successfully perform and interact in a technology-driven society. Students will enhance reading, writing, computing, communication, and critical thinking and apply them to the IT environment.

GRAPHIC DESIGN AND ILLUSTRATION 1

Weight: Non-GPA

Credit: 1

Recommended preparation: Digital Media or Principles of Arts, AV Technology and Communication
Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing 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 how those principles apply to design. *Offers both a Mass Communication Emphasis as well as an Art Design Emphasis *does not count toward Fine Arts Credit*

GRAPHIC DESIGN AND ILLUSTRATION 2/Lab

Weight: Non-GPA

Credit: 1-2

Prerequisite: Graphic Design and Illustration 1

This course enables the student to apply academic knowledge and skills in art and design projects. The student develops an advanced understanding of graphic design and illustration by interpreting, evaluating and justify design decisions. In the lab class the student employs a creative design process to create original two- or three-dimensional projects. Students will create designs for defined applications, demonstrate elements of design and design principles and typography, and gain experience with composition and perspective. This course must be taken concurrently with Graphic Design and Illustration 2 and may not be taken as a stand-alone course.

DIGITAL ART AND ANIMATION

Weight: Non-GPA

Credit: 1

Students use the computer as a fine art tool to create original two-dimensional and three-dimensional works of art. This course offers an introduction to the elements and principles of design as they relate to the work being created in class as well as work created by master artists in the field. ***This course satisfies a fine arts credit.***

3-D MODELING AND ANIMATION

Weight: Non-GPA

Credit: 1

3-D Modeling and Animation consists of computer images created in a virtual three-dimensional (3-D) environment. 3-D Modeling and Animation has applications in many careers, including criminal justice, crime scene, and legal applications; construction and architecture; engineering and design; and the movie and game industries. Students in this course will produce various 3-D models of real-world objects. *This course satisfies a fine arts credit.*

FASHION DESIGN 1

Weight: Non-GPA

Credit: 1

This course introduces students to basic clothing construction techniques, clothing care and maintenance, design principles, textile information, and clothing consumerism. Students also will be prepared to understand the psychological aspects of clothing and textiles. In addition to developing technical knowledge and skills, students will develop an understanding of fashion and textile industries.

FASHION DESIGN 2

Weight: Non-GPA

Credit: 1

Prerequisite: Fashion Design 1

Recommended Co-Requisite: Fashion Design 2 Lab

Careers in fashion span all aspects of the textile and apparel industries. Within this context, students will be expected to develop an understanding of the fashion industry with an emphasis on design and construction.

FASHION DESIGN 2 LAB

Weight: Non-GPA

Credit: 1

Corequisite: Fashion Design 2

The lab challenges Fashion Design 2 students to apply academic and technical knowledge in fashion design to create professional quality designs from multiple genres. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

AUTOMOTIVE TECHNOLOGY

Weight: Non-GPA

Credit: 2

Prerequisite: Junior standing

In Automotive Technology, students gain knowledge and skills in the repair, maintenance and diagnosis of motor vehicles. The primary goal of this course is to prepare students to pass the Automotive Service Excellence (ASE) certification exams for Braking Systems (A5) and Automotive Electrical/Electronic Systems (A6). Students will work in a simulation lab as well as on actual vehicles. Students also will learn to safely use and care for major shop equipment and tools. Students will explore career and educational

opportunities related to the automotive repair industry. *This course requires an additional course fee and daily travel to Princeton, TX.*

ADVANCED AUTOMOTIVE TECHNOLOGY

Weight: Non-GPA

Credit: 2

Prerequisite: Automotive Technology

In Advanced Automotive Technology, students gain knowledge and skills in the repair, maintenance and diagnosis of motor vehicles. The primary goal of this course is to prepare students to pass the Automotive Service Excellence (ASE) certification exams for Suspension and Steering (A4) and Engine Performance (A8). Students will work in a simulation lab as well as on actual vehicles. Students also will learn to safely use and care for major shop equipment and tools. Students will explore career and educational opportunities related to the automotive repair industry. *This course requires an additional course fee and daily travel to Princeton, TX.*

HVAC AND REFRIGERATION TECHNOLOGY 1

Weight: Non-GPA

Credit: 2

Prerequisite: Junior standing

In HVAC and Refrigeration Technology 1, students will gain knowledge and skills in refrigeration principles, including the refrigeration cycle, basic thermodynamics, heat transfer, temperature/pressure relationship, safety, refrigeration containment and refrigeration components. Students also will learn basic electricity for HVAC, including AC and DC circuits as well as component theory and operation. Students will demonstrate proper application and use of tools, test equipment and safety procedures. *This course requires an additional fee and daily travel to Princeton, TX.*

HVAC AND REFRIGERATION TECHNOLOGY 2

Weight: Non-GPA

Credit: 2

Prerequisite: HVAC and Refrigeration Technology 1

In HVAC and Refrigeration Technology 2, students will gain knowledge and skills in residential air conditioning, including components, applications, installation, operating conditions, troubleshooting, repair and charging of air conditioning systems. Students also will gain proficiency in servicing gas and electric heating systems, including operating conditions, troubleshooting, and repair and safety inspections. Students will demonstrate proper application and use of tools, test equipment and safety procedures. Upon completion of this program, students will be eligible to take the state certification exam in HVAC Repair. *This course requires an additional course fee and daily travel to Princeton, TX.*

Public Services Endorsement

PRINCIPLES OF EDUCATION AND TRAINING

Weight: Non-GPA

Credit: 1

Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze career options within the Education and Training Career Cluster.

CHILD DEVELOPMENT

Weight: Non-GPA

Credit: 1

Recommended Preparation: Counseling and Mental Health (can be taken concurrently)

Child Development is a technical laboratory course that addresses knowledge and skills related to child growth and development from prenatal through school-age children, equipping students with child development skills. Students use these skills to promote the well-being and healthy development of children and investigate careers related to the care and education of children.

INSTRUCTIONAL PRACTICES

Weight: Non-GPA

Credit: 2

Instructional Practices is a field-based internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators or trainers in direct instructional roles with elementary, middle school, and high school aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel.

LAW ENFORCEMENT 1

Weight: Non-GPA

Credit: 1

Law Enforcement 1 is an overview of the history, organization, and functions of local, state, and federal law enforcement. This course includes the role of constitutional law, the United States legal system, criminal law, law enforcement terminology, and the classification and elements of crime.

LAW ENFORCEMENT 2

Weight: Non-GPA

Credit: 1

Prerequisite: Law Enforcement 1

This course provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations and courtroom testimony.

CRIMINAL INVESTIGATION

Weight: Non-GPA

Credit: 1

Prerequisite: Law Enforcement 2

Students in this course will analyze the field of criminal investigations, research criminal investigative procedures including preliminary and follow-up practices, examine the characteristics of effective criminal investigators and evaluate and examine the relationships among individuals involved in investigations.

PRINCIPLES OF HEALTH SCIENCE

Weight: Non-GPA

Credit: 1 (Articulated with Collin College)

Recommended Preparation or Corequisite: Biology

In Principles of Health Science, students are provided an overview of career exploration through systems of the healthcare industry, with a focus on leadership development, medical terminology, medical math, ethical and legal issues, nutrition and concepts of past and current medical trends in the healthcare field.

1) MEDICAL TERMINOLOGY (HS CREDIT) OR

2) MEDICAL TERMINOLOGY/PATHOPHYSIOLOGY (DC WITH COLLIN COUNTY COLLEGE)

Weight: Non-GPA

Credit: 1 credit (option 1-1 HS credit; option 2- two .5 dual credits)

Recommended Preparation: Principles of Health Science

Medical Terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. The course may be taken as a full year, high school or course or as a semester dual credit course with a second semester dual credit Pathophysiology course. The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

HEALTH SCIENCE THEORY

Weight: Non-GPA

Credit: 1

Prerequisite: Principles of Health Science and Biology

This course provides 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 with health record systems, safe environments, as well as assessing wellness strategies for disease prevention.

PRACTICUM IN HEALTH SCIENCE (CCMA)

Weight: Non-GPA

Credit: 2

Prerequisites: Principles of Health Science and Health Science Theory

The course content includes developing the skills to assist physicians with exams, take vital signs, practice aseptic technique, interview patients for medical history, provide proper medical documentation, perform clinical procedures, use aseptic laboratory techniques and protocols, understand and use medical terminology and understand and use office procedures including HIPPA, OSHA, medical insurance billing and medical coding. Students will gain valuable knowledge to prepare them to handle both the clinical duties and administrative responsibilities in a variety of healthcare settings. All students will become certified in American Heart Association CPR and AED. Students who successfully complete the course and are on track to graduate will have the opportunity to sit for the Medical Assistant Certification Exam offered by the National Healthcare Association. **This course involves periodic travel to clinical sites. Students are responsible for providing their own transportation to and from clinical sites.*

LIFETIME NUTRITION AND WELLNESS

Weight: Non-GPA

Credit: .5

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.

PRINCIPLES OF EXERCISE SCIENCE AND WELLNESS

Weight: Non-GPA

Credit: 1

The Principles of Exercise Science and Wellness course is designed to provide for the development of knowledge and skills in fields that assist patients with maintaining physical, mental, and emotional health. Students in this course will understand diet and exercise, as well as techniques to help patients recover from injury, illness, and disease. They will also learn about introductory health science topics such as employability skills, lifespan development, and ethical and legal standards. Students who take this course are ideally interested in such careers as physical therapy, athletic training, nutrition, personal training and recreational therapy. The central focus of this course is to provide students with a solid foundation in the topics of health and wellness and increase their interest in the various careers available in these fields.

KINESIOLOGY

Weight: Non-GPA

Credit: 1

This course is designed to introduce students to the basic concepts of kinesiology. Students will gain an understanding of body mechanics, physiological functions of muscles and movements, the history of kinesiology, and the psychological impact of sports and athletic performance. Students will also explore careers within the kinesiology field and be able to explain the societal demand for kinesiology-related jobs. Students will develop a foundation in Kinesiology I that will prepare them for upper level courses that will dive deeper into the anatomical and physiological functions of the human body and provide opportunities for an industry certified exam such as a certified personal trainer.

ANATOMY AND PHYSIOLOGY

Weight: Academic

Credit: 1

Prerequisite: Three high school science credits (1 may be taken concurrently)

In Anatomy and Physiology, students conduct laboratory and field investigations, use scientific methods and make informed decisions using critical thinking and scientific problem solving. Students learn about a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

PRACTICUM IN ENTREPRENEURSHIP (ATHLETIC TRAINING)

Weight: Non-GPA

Credit: 2-3

COSMETOLOGY 1

Weight: Non-GPA

Credits: 3

Prerequisite: Junior standing

In Cosmetology 1, students gain the knowledge and skills in the principles and practices of the treatment of hair, skin and nails required to be competitive in the field of cosmetology. Students will learn primary technical skills including cutting, coloring, texture services, waxing and styling as well as secondary skills such as appropriate work habits, safety and sanitation procedures, customer service and communication. Students will explore career and educational opportunities related to cosmetology. *This course requires an additional course fee and daily travel to Princeton, TX.*

COSMETOLOGY 2

Weight: Non-GPA

Credits: 3

Prerequisite: Cosmetology 1

In Cosmetology 2, students refine the skills introduced in Cosmetology 1 as they transition from working on mannequins to actual people. Upon completion of the course, students are eligible to take the Cosmetology Licensure Examination. Students will explore career and educational opportunities related to cosmetology. *This course requires an additional course fee and daily travel to Princeton, TX.*

Science, Technology, Engineering and Mathematics Endorsement

COMPUTER SCIENCE 1

Weight: Non-GPA

Credit: 1

Prerequisite: Algebra I

Computer Science I will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations, systems, and concepts. *Note: This course combined with Computer Science II fulfills the Foundation high school diploma World Languages requirement. Also part of STEM endorsement.*

COMPUTER SCIENCE 2

Weight: Non-GPA

Credit: 1

Prerequisite: Algebra I and Computer Science I

Computer Science II will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. 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. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts. *Note: This course combined with Computer Science I fulfills the Foundation high school diploma World Languages requirement. Also part of STEM Endorsement.*

COMPUTER SCIENCE 3

Weight: Non GPA

Credit: 1

Computer Science III will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. 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.

PRACTICUM OR CAREER PREP IN COMPUTER SCIENCE

Weight: Non- GPA

Credit: 2-3

PRINCIPLES OF INFORMATION TECHNOLOGY

Weight: Non-GPA

Credit: 1

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.

FOUNDATIONS OF CYBERSECURITY

Weight: Non GPA

Credit:1

Students will develop the knowledge and skills needed to explore fundamental concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will review and explore security policies designed to mitigate risks. The skills obtained in this course prepare students for additional study in cybersecurity.

PRINCIPLES OF APPLIED ENGINEERING

Weight: Non-GPA

Credit: 1

Principles of Applied Engineering provides an overview of various fields of science, technology, engineering and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects and will work on a design team to develop a product or system. Students also will make presentations over course assignments.

MANUFACTURING ENGINEERING TECHNOLOGY

Weight: Non GPA

Credits: 1

This course focuses on planning, managing, and performing the processing of materials into intermediate or final products and support activities such as production planning and control, maintenance, and manufacturing/process engineering. The course will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

ENGINEERING DESIGN AND PRESENTATION

Weight: Non-GPA

Credit: 1

Prerequisite: Algebra 1

This course covers the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects. Through implementation of the design process, students transfer advanced academic skills to component designs.

ENGINEERING DESIGN AND PROBLEM SOLVING

Weight: Non-GPA

Credit: 1

Prerequisite: Algebra 1 and Geometry

Recommended Preparation: Two STEM courses

The Engineering Design and Problem Solving course is the creative process of solving problems by identifying needs and then devising solutions. The solution may be a product, technique, structure, or process depending on the problem. Science aims to understand the natural world, while engineering seeks to shape this world to meet human needs and wants. Engineering design takes into consideration limiting factors or "design under constraint." Various engineering disciplines address a broad spectrum of design problems using specific concepts from the sciences and mathematics to derive a solution. The design process and problem solving are inherent to all engineering disciplines. *Note: this course satisfies a high school science credit as a graduation requirement.*

PROJECT BASED RESEARCH

Weight: Non-GPA

Credit: 1

Prerequisites: 3 prior courses in Cybersecurity or Networking Programs of Study

Culminating course in Cybersecurity that will be designed by the student and teacher to target improving strengths and interests in the field toward employment readiness.

General Electives

HEALTH

Weight: Non-GPA

Credit: .5

This course develops skills that will make students health-literate adults. Students gain a deeper understanding of the knowledge and behaviors they use to safeguard their health, particularly pertaining to health risks. Students are taught how to access accurate information that they can use to promote health for themselves and others. Students use problem-solving, research, goal-setting and communication skills to protect their health and that of the community.

ATHLETIC TRAINING

Weight: Non-GPA

Credit: 1

Prerequisite: Athletic Trainer Approval

The Athletic Training course is designed for students who are interested in sports medicine related fields such as athletic training, physical therapy, medicine, nursing, kinesiology and nutrition. Each student trainer is required to assist the head trainer during practice and games. Student Athletic Trainers must have a willingness to work hard and at times work long hours. Through hands-on experience, students will become familiar with the concepts relevant to the prevention, treatment, and evaluation of athletic injuries, as well as the importance of maintaining an efficient and professional athletic training facility.

SPORTS MEDICINE 1

Weight: Non-GPA

Credit: 1

This course provides an opportunity for the study and application of the components of sports medicine, including, but not limited to: sports medicine related careers, prevention of athletic injuries, recognition, evaluation, and immediate care of athletic injuries, rehabilitation and management skills, taping and wrapping techniques, first aid/CPR/AED, emergency procedures, human anatomy, and therapeutic exercise. **You must attend 2 athletic practices and 1 game per semester as part of your grade for this course. **

SPORTS MEDICINE 2

Weight: Non-GPA

Credit: 1

Prerequisite: Sports Medicine 1 and approval by the Athletic Trainer

****Must complete the Melissa HS Athletic Training program application****

This course provides a more in-depth study and application of the components of sports medicine including: CPR and AED certification, rehabilitative techniques; therapeutic modalities; prevention, recognition, and care of injuries to the head and face, spine, upper extremity, taping and bandaging; injuries to the young athlete; substance abuse in sports; and general health concerns in sports medicine.

DEBATE 1, 2, 3

Weight: Non-GPA

Credit: 1

The major object of Debate class is to train and develop students in the art and science of argumentation. Students will prepare to compete in speech and debate tournaments and will have the opportunity to earn awards and honors, including membership in the National Speech and Debate Association. The course develops skills in argumentation, persuasion, research, audience analysis, critical thinking, time management, and other life skills. Tournament participation (4 per semester) is required. Students in Debate 2/3 will use the class as a tournament prep class.

ORAL INTERPRETATION 1, 2, 3

Weight: Non-GPA

Credit: 1

Oral Interpretation is an intensive speech and performance course focused on the oral reading of literary texts and scripts as a communication art. Students will choose and analyze literature from many genres and prepare dynamic performances of selections in preparation for tournament competitions in NSDA, TFA, UIL, and NIETOC speaking events. Tournament participation (4 per semester) is required. Students in Oral Interpretation 2/3 will use the class as a tournament prep class.

PALs 1 (Peer Assistance and Leadership)

Weight: Non-GPA

Credit: 1

Prerequisite: 11th or 12th grade standing

****Must complete the Melissa HS Leadership Application & Interview****

Peer Assistance and Leadership (PALs) is a two-semester course with in-depth training that develops leadership, group-dynamics, mentoring, communication, problem-solving and decision-making skills. PALs 1 students mentor K-9th grade students two days a week and serve the schools and community. Students are selected through an interview and application process. PALs 1 uses leadership, peer mediation, and interpersonal skills. Students must work well with others.

PALs 2 (Peer Assistance and Leadership)

Weight: Non-GPA

Credit: 1

Prerequisite: Completion of PALs 1

Must complete the Melissa HS Leadership Application & Interview

Peer Assistance and Leadership 2 (PALs 2) is a two semester course. This course is only for seniors who have previously been in PALs 1 and have met all the requirements. Students are selected through an application and interview process. Students must be able to display and apply previously learned skills. PALs 2 further develops leadership, group-dynamics, mentoring, communication, problem-solving and decision-making skills. PALs 2 students mentor K-9th grade students weekly, organize numerous school events and charity fundraisers, and serve the schools and community. Selected PALs 2 students will serve as the governing body of the PALs program through the Leadership Council and the Security Council.

