

# Melissa High School



## Course Catalog

## **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](http://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 and 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
- 1 Physical Education
- 1 Fine Arts
- 5 Electives

### ENDORSEMENTS

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

- 4<sup>th</sup> Mathematics
- 4<sup>th</sup> Science
- 2 Electives specific to the chosen endorsement

#### Arts and Humanities

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

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

#### 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 HB 5); or
- 3 levels in one of the following areas:
  - Public speaking; or
  - Debate; or
  - Advanced Journalism; or
- 4 credits in technology applications selected from an approved list of digital technology course (specified in HB 5); or
- A coherent sequence of 4 credits from any of the above options

### Multidisciplinary Studies

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

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

### 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 HB 5)

### 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
  - A coherent sequence of 4 credits in computer science; or
  - 2 mathematics courses for which Algebra 2 is a prerequisite; or
  - 2 advanced science courses (specified in HB 5); 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.

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):

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

## 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 <sup>th</sup> Grade	Freshman
6 – 11.5	10 <sup>th</sup> Grade	Sophomore
12 – 17.5	11 <sup>th</sup> Grade	Junior
18 +	12 <sup>th</sup> 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
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Semester 2 = 42.5% of Quarter 3 + 42.5% of Quarter 4 + 15% of Semester 2 Exam
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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, Dual Credit English 3, English 4, Dual Credit English 4
Mathematics	Algebra 1, Honors Algebra 1, Geometry, Honors Geometry, Algebraic Reasoning, Algebra 2, Honors Algebra 2, Statistics, Precalculus, Dual Credit College Algebra and Precalculus, Dual Credit Calculus
Science	Biology, Honors Biology, Integrated Physics & Chemistry, Chemistry, Honors Chemistry, Physics, Honors Physics, Anatomy & Physiology, Forensic Science, Environmental Systems, Dual Credit Environmental Science, Dual Credit Nutrition and Diet Therapy
Social Studies	World Geography, Honors World Geography, World History, Honors World History, Dual Credit 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 GPA who have been enrolled in the District continuously, commencing with enrollment before the first day of the second quarter of the students' junior year until graduation. Grade points shall be assigned according to the chart below:

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 Courses**

Courses designated as “Honors”, “AP” 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” scales. Courses designated as “AP” are college level courses for which students can earn college credit by passing the AP Examination in the spring.

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.

A strong work ethic and a desire to learn are the key ingredients for success in any honors 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 course is a final grade of at least 80 in the previous honors course. The course descriptions in this catalog provide details. Students considering changes from academic courses to honors courses should consult with their counselors and teachers during the course selection process.

*Students must earn grades of 70 or higher for the first quarter and the first semester to remain enrolled in honors level courses.*

## **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.

## 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 8<sup>th</sup> 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.

## **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: COLLEGE READING AND WRITING**

Weight: Honors

Credit: 1

Prerequisite: English 2 (for Junior students) or English 3 (for Senior students)

Recommended Preparation: Final Grade of 80 or higher in Honors English 2 or 90 or higher in English 3

This course introduces students to writing as an extended, complex and recursive process. Students will write weekly, working on essay organization and development. This course emphasizes close reading, summarizing and analysis of expository texts, including student and professional writing. Students also will rigorously examine forms and structures of argumentative prose and means of adapting writing to alternate audiences.

*Note: This course is open to both Juniors and Seniors. Junior students will receive credit for English 3. Senior students will receive credit for English 4.*

## **DUAL CREDIT ENGLISH: INTRODUCTION TO LITERATURE**

Weight: Honors

Credit: 1

Prerequisite: Dual Credit English: College Reading and Writing

Recommended Preparation: Final Grade of 80 or higher in College Reading and Writing

This course is an intensive study of short stories, novels, nonfiction, poetry and drama. Students will engage in analysis and evaluation of major writers, their techniques, and their contributions to the historical development of our literary heritage. *Note: This course is open to Seniors only. Students will receive credit for English 4.*

## **JOURNALISM**

Weight: Non-GPA

Credit: 1

Students in Journalism write in a variety of forms for a variety of audiences and purposes. Students will plan, draft, and complete written compositions on a regular basis, carefully examining their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English. Students will become analytical consumers of media and technology to enhance their communication skills. Published work of professional journalists, technology, and visual and electronic media are used as tools for learning as students create, clarify, critique, write, and produce effective communications. Students will learn journalistic traditions, research self-selected topics, write journalistic texts, and learn the principles of publishing.

## **ADVANCED JOURNALISM: NEWSPAPER 1, 2, 3**

Weight: Non-GPA

Credit: 1

Prerequisite: Journalism

This course provides practical experience in writing, investigative reporting, editing, advertising, and processing the student newspaper. Class members will write, edit, and take photographs for the high school newspaper.

## **ADVANCED JOURNALISM: YEARBOOK 1, 2, 3**

Weight: Non-GPA

Credit: 1

Prerequisite: Journalism

Students in Yearbook plan, draft and complete written and/or visual communications on a regular basis with the ultimate goal of producing the annual Melissa High School Yearbook. While carefully examining their own copy for clarity, engaging language and appropriate use of the conventions and mechanics of written English,

Yearbook students are expected to become analytical consumers of media, analyzing and critiquing published works of professional journalists to enhance their own communication skills. Students research self-selected topics, and plan, organize, and prepare projects in one or more forms of media while adhering to journalistic ethics and standards.

### **CREATIVE WRITING**

Weight: Non-GPA

Credit: .5

Recommended Preparation: English 2

This is a writing course where students develop their skills in a variety of forms and genres in a writing workshop environment. The course emphasizes the use of the writing process and the effective application of the conventions of language along with self- and peer-evaluation and goal-setting. Students will create and publish an anthology of creative works. Works created will be a compilation of short stories, poetry and drama.

### **THE BIBLE AS LITERATURE**

Weight: Non-GPA

Credit: .5

Recommended Preparation: English 2

This course exposes students to the Hebrew Scriptures (Old Testament) and the New Testament which teaches Biblical content, characters, poetry, and narratives that impact understanding of classical and contemporary society and culture, including literature, art and music. The course follows federal and state laws and guidelines in maintaining religious neutrality and accommodating the diverse religious views and perspectives of students.

## **Mathematics**

### **ALGEBRA 1**

Weight: Academic

Credit: 1

Algebra 1 is a foundational course in the real numbers and their operations, linear equations and inequalities, ratio and proportion, polynomials, rational expressions, radicals, quadratic relations and equations, and using algebraic representation in problem solving.

### **HONORS ALGEBRA 1**

Weight: Honors

Credit: 1

Prerequisite: 8<sup>th</sup> Grade Mathematics

Recommended Preparation: Final Grade of 80 or higher in Honors 8<sup>th</sup> Grade Mathematics

Honors Algebra I focuses on the study of algebraic thinking and symbolic reasoning, linear and quadratic functions, relationships between equations and functions, and tools for algebraic representation. Students use a variety of representations (concrete, pictorial, numerical, symbolic, graphical, and verbal), tools, and technology to model mathematical situations to solve meaningful problems.

### **GEOMETRY**

Weight: Academic

Credit: 1

Prerequisite: Algebra 1

Geometry provides an in-depth study of plane and solid figures. Students will apply the principles of deductive reasoning to the basic properties of lines, planes, polygons, circles, and geometric solids, including congruency and similarity of geometric figures.

## **HONORS GEOMETRY**

Weight: Honors

Credit: 1

Prerequisite: Algebra 1

Recommended Preparation: Final Grade of 80 or higher in Honors 8<sup>th</sup> Grade Algebra 1

Honors Geometry is an intensified study of the theorems and concepts of geometry. This course places a greater emphasis on abstraction and proof.

## **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.

## **ALGEBRA 2**

Weight: Academic

Credit: 1

Prerequisite: Algebra 1

Algebra 2 provides a study of linear systems, relations and functions, complex numbers, polynomials, rational expressions, matrices, determinants, conic section, sequences, and series, and exponential and logarithmic functions.

## **HONORS ALGEBRA 2**

Weight: Honors

Credit: 1

Prerequisite: Algebra 1

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

Honors Algebra 2 covers the topics of Algebra 2 in greater depth and breadth, in addition to selected additional topics.

## **STATISTICS**

Weight: Academic

Credit: 1

Prerequisite: Algebra 1

Recommended Preparation: Algebra 2

In 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 collection and analysis.

## **PRECALCULUS**

Weight: Academic

Credit: 1

Prerequisite: Algebra 2 and Geometry

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

Precalculus is specifically designed to prepare students for success in college-level introductory calculus. Topics covered include in-depth study of quadratic relations and functions, polynomials, exponential and logarithmic functions, trigonometric and polar functions, probability and statistics, vectors, sequences and series, and an introduction to limits.

## **DUAL CREDIT COLLEGE ALGEBRA and PRECALCULUS**

Weight: Honors

Credit: .5 each

Prerequisite: Algebra 2

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 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**

Weight: Honors

Credit: 1

Prerequisite: Dual Credit Precalculus

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

Dual Credit Calculus 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.

## **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 evaluating 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 8<sup>th</sup> 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.

### **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.

## **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.

## **ENVIRONMENTAL SYSTEMS**

Weight: Academic

Credit: 1

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

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.

## **ANATOMY AND PHYSIOLOGY**

Weight: Academic

Credit: 1

Prerequisite: Three high school Science credits

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.

## **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.

## **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 8<sup>th</sup> 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.

**DUAL CREDIT or 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 Dual Credit or Honors World History

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

**DUAL CREDIT PSYCHOLOGY and SOCIOLOGY**

Weight: Non-GPA

Credit: .5 each

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

Dual Credit 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.

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.

**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.

## **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.

### **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 will cover 5 of the 7 simple tenses with regular and irregular verbs. 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

Spanish 3 will review the 5 simple tenses with regular and irregular verbs. 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

Spanish 4 will review the tenses with regular and irregular verbs from Spanish I-III. 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.

## **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.

### **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.*

### **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. Attendance at activities including football games, contests, parades and other trips is required. *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.

### **AP MUSIC THEORY**

Weight: Non-GPA

Credit: 1

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

AP Music Theory builds 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.

### **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.

### **MUSICAL THEATRE**

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.

### **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 test throughout the year. This class will require stage setup, stage strike, including the use of hand tools, ladders and other equipment.

## **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.

## **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.

### **ENTREPRENEURSHIP**

Weight: Non-GPA

Credit: 1

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.

## **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.

## **COMPUTER MAINTENANCE**

Weight: Non-GPA

Credit: 1

Recommended Preparation: Business Information Management 1

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**

Weight: Non-GPA

Credit: 1

Prerequisite: 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.

## **COMPUTER PROGRAMMING 1**

Weight: Non-GPA

Credit: 1

In this course, students will begin learning structured programming concepts and techniques to develop executable programs and maintain appropriate documentation. A major emphasis of Computer Programming is for students to gain hands-on experience applying programming skills to various applications of emerging technologies. Students also will analyze the responsibilities of computer programming professionals regarding environmental, ethical, health, safety, and diversity issues in society and in the workplace.

## **COMPUTER PROGRAMMING 2**

Weight: Non-GPA

Credit: 1

Prerequisite: Computer Programming 1

Recommended Preparation: Final Grade of 80 or higher in Computer Programming 1

In Advanced Computer Programming, students will expand their knowledge and skills by developing comprehensive programming solutions to complex problems in a variety of applied scenarios. Students will

engage in a nuanced discussion of professional responsibility regarding environmental, ethical, health, safety, and diversity issues in society and in the workplace.

### **PRACTICUM IN INFORMATION TECHNOLOGY**

Weight: Non-GPA

Credit: 2

Prerequisite: Computer Programming 2

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.

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

Weight: Non-GPA

Credit: 1

Recommended Preparation: Professional Communications

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 topics related to the pre-production, production and post-production of audiovisual products.

### **AUDIO/VIDEO PRODUCTION 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.

### **AUDIO/VIDEO PRODUCTION 2 LAB**

Weight: Non-GPA

Credit: 1

Corequisite: Audio/Video Production 2

This course builds on the Audio/Video Production 1 Lab through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills. This course must be taken concurrently with Audio/Video Production 2 and may not be taken as a stand-alone course.

### **COMMERCIAL PHOTOGRAPHY 1**

Weight: Non-GPA

Credit: 1

Recommended Preparation: Art 1

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. Within this context, Commercial Photography students will develop a generalized understanding of the commercial photography industry while building a foundational body of knowledge and skills needed for success in the Arts, Commercial Photography, and Communications. This course will include a wide range of pre-production, production and post-production activities with a focus on creating quality photographs.

## **COMMERCIAL PHOTOGRAPHY 2**

Weight: Non-GPA

Credit: 1

Prerequisite: Commercial Photography 1

In this course, the student will develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting and presenting professional quality photographs.

## **COMMERCIAL PHOTOGRAPHY 2 LAB**

Weight: Non-GPA

Credit: 1

Corequisite: Commercial Photography 2

This lab course challenges Commercial Photography 2 students to apply technical knowledge in solving practical problems and composing professional quality photographs. This course must be taken concurrently with Commercial Photography 2 and may not be taken as a stand-alone course.

## **GRAPHIC DESIGN AND ILLUSTRATION 1**

Weight: Non-GPA

Credit: 1

Recommended Preparation: Art 1

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.

## **GRAPHIC DESIGN AND ILLUSTRATION 2**

Weight: Non-GPA

Credit: 1

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.

## **GRAPHIC DESIGN AND ILLUSTRATION 2 LAB**

Weight: Non-GPA

Credit: 1

Corequisite: Graphic Design and Illustration 2

In this course, 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.

## **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.

## **SCREEN PRINTING**

Weight: Non-GPA

Credit: 2

Recommended Preparation: 2 credits from Graphic Design or Fashion Design

Screen printing students will gain skill proficiency and a technical understanding of the industry while focusing on the production of high quality apparel. Students will apply and enhance skills acquired in previous courses while developing professionalism through real world experience. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

## **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 may require an additional fee and daily travel to a separate MISD facility.*

## **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 may require an additional course fee and daily travel to a separate MISD facility.*

## Public Services Endorsement

### **COUNSELING AND MENTAL HEALTH**

Weight: Non-GPA

Credit: 1

Recommended Preparation: Professional Communications

This course prepares students to model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

### **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 the examine the relationships among individuals involved in investigations.

### **PRINCIPLES OF HEALTH SCIENCE**

Weight: Non-GPA

Credit: 1

In Principles of Health Science, students are provided an overview of career exploration through systems of the health care 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 health care field.

### **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.

## **HEALTH SCIENCE CLINICAL**

Weight: Non-GPA

Credit: 1

Corequisite: Health Science Theory

This course implements the knowledge and skills of a health science professional in the clinical setting. The student complies with industry standards, models expectations of professional conduct, employs medical vocabulary specific to the setting, demonstrates first aid, and performs skills specific to health science professionals. This course must be taken concurrently with Health Science Theory and may not be taken as a stand-alone course.

## **PRACTICUM IN HEALTH SCIENCE – CERTIFIED NURSING ASSISTANT**

Weight: Non-GPA

Credit: 2

Recommended Preparation: Final Grade of 80 or higher in Principles of Health Science

This course is designed to provide instruction toward a Certification with the State of Texas for Certified Nursing Assistant (CNA). CNA's provide basic bedside care, under the direction of a Physician, Registered Nurse and/or Licensed Vocational Nurse. Students will be able to work in a medical facility after passing state certification. Class requirements include 76 hours of classroom instruction along with a minimum of 30 to 40 hours of clinical instruction at a Nursing Facility. Career and post-secondary options in nursing will also be explored. Students must provide their own transportation to and from their clinical rotations. *This course requires an additional course fee and may require daily travel to Princeton, TX.*

## **PRACTICUM IN HEALTH SCIENCE – PHARMACY TECHNICIAN**

Weight: Non-GPA

Credit: 2

Recommended Preparation: Final Grade of 80 or higher in Principles of Health Science

The Pharmacy Technician Program provides students with skills and knowledge to prepare them for the national Pharmacy Technician Certification Board exam and enable students to qualify for entry-level positions in retail and hospital pharmacies. This integrated occupational course will provide an overview of the pharmacokinetics and pharmacodynamics of prescription and nonprescription medications. Course content will emphasize drug classifications, drug action, drug administration, ethical and legal issues, and safety. Students will develop an understanding of pharmaceuticals and their impact on the health care industry. Career and post-secondary options in pharmacy will also be explored. *This course requires an additional course fee and daily travel to Princeton, TX.*

## **COSMETOLOGY 1**

Weight: Non-GPA

Credit: 2 – 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 include 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

Credit: 2 – 3

Prerequisite: Cosmetology 1

In Cosmetology 2, students refine the skills introduced in Cosmetology 1 as they transition from working on manikins 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

### **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.

### **ENGINEERING DESIGN AND PRESENTATION**

Weight: Non-GPA

Credit: 1

Prerequisite: Algebra 1

Recommended Preparation: Final Grade of 80 or higher in Concepts of Engineering

Students in this course will apply the design process to engineering fields. Using multiple hardware and software applications, students will transfer advanced academic skills to component designs then produce and present working drawings, solid model renderings, and prototypes. This course will guide students in exploring career opportunities in engineering, technology, and drafting. Additionally, students will have an opportunity to earn industry certification in mechanical design. Students who achieve a final grade of 85% and pass an external final exam will earn 3 hours of college credit for this course.

### **ENGINEERING SCIENCE**

Weight: Non-GPA

Credit: 1

Recommended Preparation: Principles of Applied Engineering and concurrent enrollment in Honors Algebra 2 or higher Mathematics course

Engineering Science exposes students to major concepts they will encounter in a postsecondary engineering course of study, including energy, materials, machines and statistics. Students in this course will employ engineering and scientific concepts in the solution of engineering design problems while learning how to document their work and communicate their solutions to peers and members of the professional community. Students who achieve a final grade of 85% and pass an external final exam will earn 3 hours of college credit for this course.

### **AEROSPACE ENGINEERING**

Weight: Non-GPA

Credit: 1

Recommended Preparation: Principles of Engineering and concurrent enrollment in Dual Credit College Algebra or higher Mathematics course

This course deepens the knowledge and skills of engineering students within the context of atmospheric and space flight. Students explore the fundamentals of flight and bring the concepts to life by designing and testing various flight craft components, creating models to apply principles of orbital mechanics and applying aerospace concepts to alternative applications such as a wind turbine or a parachute. Students who achieve a final grade of 85% and pass an external final exam will earn 3 hours of college credit for this course.

## General Electives

### **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**

Weight: Non-GPA

Credit: 1

Recommended Preparation: Final Grade of 80 or higher in Biology

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, organizational and administrative considerations, 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, nutrition, sports psychology, human anatomy and physiology, therapeutic modalities, and therapeutic exercise.

### **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.

# Melissa High School Personal Graduation Plan

Student Name \_\_\_\_\_

Expected Graduation Date \_\_\_\_\_

<b>Foundation Plan</b>
<p>English Language Arts</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> English 1</li> <li><input type="checkbox"/> English 2</li> <li><input type="checkbox"/> English 3</li> <li><input type="checkbox"/> Advanced English Course                             <ul style="list-style-type: none"> <li>○ _____</li> </ul> </li> </ul> <p>Mathematics</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Algebra 1</li> <li><input type="checkbox"/> Geometry</li> <li><input type="checkbox"/> Advanced Math Course                             <ul style="list-style-type: none"> <li>○ _____</li> </ul> </li> </ul> <p>Science</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Biology</li> <li><input type="checkbox"/> IPC or Chemistry or Physics</li> <li><input type="checkbox"/> Advanced Science Course                             <ul style="list-style-type: none"> <li>○ _____</li> </ul> </li> </ul> <p>Social Studies</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> World Geo or World History</li> <li><input type="checkbox"/> US History</li> <li><input type="checkbox"/> Government</li> <li><input type="checkbox"/> Economics</li> </ul> <p>Language other than English</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Level 1 _____</li> <li><input type="checkbox"/> Level 2 _____</li> </ul> <p>Fine Arts</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> _____</li> </ul> <p>Physical Education</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> _____</li> </ul> <p>Electives</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> _____</li> </ul>
<b>STAAR EOC Tests</b>
<ul style="list-style-type: none"> <li><input type="checkbox"/> English 1</li> <li><input type="checkbox"/> English 2</li> <li><input type="checkbox"/> Algebra 1</li> <li><input type="checkbox"/> Biology</li> <li><input type="checkbox"/> US History</li> </ul>

<b>Endorsements</b>
<p>Additional Math</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> _____</li> </ul> <p>Additional Science</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> _____</li> </ul> <p>Endorsement Electives</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> _____</li> <li><input type="checkbox"/> _____</li> </ul> <p style="text-align: center;"><b>ENDORSEMENT EARNED</b></p> <div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div> <p>Additional Endorsement Electives</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> _____</li> <li><input type="checkbox"/> _____</li> </ul> <p style="text-align: center;"><b>ADDITIONAL ENDORSEMENT</b></p> <div style="border: 1px solid black; width: 100%; height: 20px; margin-bottom: 5px;"></div>
<b>Performance Acknowledgements</b>
<p><b>Dual Credit</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 12 credit hours; and</li> <li><input type="checkbox"/> 3.0 on 4.0 scale</li> </ul> <p><b>Advanced Placement</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> 3 or higher on an AP exam</li> </ul> <p><b>Business or Industry Certification</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Business/Industry Certificate</li> </ul> <p><b>College Preparation Exam</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> PSAT commended or higher; or</li> <li><input type="checkbox"/> ACT composite 28 or higher; or</li> <li><input type="checkbox"/> SAT 410 reading and 520 mathematics</li> </ul> <p><b>Bilingual/Biliterate</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> All ELAR w/ GPA of 80/100; and                             <ul style="list-style-type: none"> <li>○ 3 credits in same LOTE w/ GPA of 80/100; or</li> <li>○ Level 4 course in LOTE w/ GPA of 80/100</li> </ul> </li> <li><input type="checkbox"/> If ELL, student must also have                             <ul style="list-style-type: none"> <li>○ Met exit criteria for ESL program; and</li> <li>○ Scored Advanced High on TELPAS</li> </ul> </li> </ul>

<b>Distinguished Achievement</b>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Endorsement</li> <li><input type="checkbox"/> Algebra 2</li> </ul>
<b>CTE Career Cluster</b>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Architecture and Construction</li> <li><input type="checkbox"/> Arts/AV/Tech/Communications</li> <li><input type="checkbox"/> Business Management/Admin</li> <li><input type="checkbox"/> Health Science</li> <li><input type="checkbox"/> Human Services</li> <li><input type="checkbox"/> Information Technology</li> <li><input type="checkbox"/> Law and Public Safety</li> <li><input type="checkbox"/> STEM</li> <li><input type="checkbox"/> Transport/Distribution/Logistic</li> </ul>
<b>Postsecondary Plans</b>
<ul style="list-style-type: none"> <li><input type="checkbox"/> Two-year College</li> <li><input type="checkbox"/> Four-year College</li> <li><input type="checkbox"/> Trade/Technical School</li> <li><input type="checkbox"/> Employment</li> <li><input type="checkbox"/> Military</li> <li><input type="checkbox"/> Other                             <ul style="list-style-type: none"> <li>○ _____</li> </ul> </li> </ul>
<b>Notes</b>

