Lamar Course Descriptions

Courses change from year to year based on student requests and changing requirements from the State of Texas and IB. Students and parents will be informed of any changes to course sequencing and offerings through the weekly newsletter, course selection, Student Led Conferences, and course verification.

ENGLISH

MYP: Language and Literature

DP/CP: Group 1: Studies in Language & Literature

MYP English 1 Recommended
Grade 9
Prerequisite: None
Credit: 1.0
GPA: 4.0

Students in English I continue to increase and refine their communication skills. Students take their writing through all the steps of the writing process on a regular basis. In addition to planning and drafting, students revise for organization and idea development and edit their papers for clarity and the correct use of the conventions and mechanics of written English. They practice all forms of writing, including literary, narrative, expository, persuasive, interpretive, analytical, research, and procedural/work related writing. English I students read extensively in multiple genres from world literature. They learn forms and terms associated with selections being read, develop comprehension and vocabulary skills to greater depth and complexity, and analyze elements of text for greater understanding and modeling for their own writing.

MYP PDP English 1
Grade 9
Prerequisite: None
Credit: 1.0
GPA: 5.0

The student is expected to meet the Texas Essential Knowledge and Skills for vocabulary, reading, writing, media literacy, research, listening and speaking as outlined by the Texas Education Agency. Vocabulary skills include dictionary usage as well as learning words from context and root study. Reading will include selections from all nine genres identified by the TEA. Planning, drafting, revising, and editing skills will be taught and practiced. Listening and speaking will be supported by Cornell Note-taking practice and project-based learning and presentation. Students will read and annotate various major works of world literature in historical and cultural context. Selected works include prose, poetry, and drama. Students will develop skills in expository essay writing, oral speech writing, media literacy, and research analysis.
Students will gain experience with MLA formatting and formal writing structures, improving their writing through a broader vocabulary.

MYP English 2 Recommended
Grade 10
Prerequisite: English 1
Credit: 1.0
GPA: 4.0

English II focuses on the study of major works of world literature and writing. Selected works include fiction, non-fiction, poetry, and drama. The student is expected to read critically in order to ascertain meaning. Writing instruction focuses on literary analysis and the art of persuasion. Students are encouraged to engage in "free reading" as much as possible to reinforce and extend the concepts taught in class and to encourage them to develop a lifelong habit of reading for pleasure.

MYP PDP English 2
Grade 10
Prerequisite: English 1
Credit: 1.0
GPA: 5.0

Students continue to increase and refine their communication skills. Students take their writing through all the steps of the writing process on a regular basis. In addition to planning and drafting, students revise for organization and idea development and edit their papers for narrative, literary, persuasive, interpretive, analytical, research, and procedural/work-related writing. Students read extensively in multiple genres from world literature, learning forms and terms associated with selections being read. IB Pre-DP Language & Literature is the final year of the Middle Years Program and is vital to prepare for the requirements of the Diploma Programme. This class focuses on the literary analysis of a wide array of genres including Greek theater, non-fiction, persuasive writing, poetry, short stories, and novels.

MYP English 3 Recommended

Grade 11
Prerequisite: English 2
Credit: 1.0
GPA: 4.0

Students in English III continue to increase and refine their communication skills. Students take their writing through all the steps of the writing process on a regular basis. In addition to planning and drafting, students revise for organization and idea development and edit their papers for clarity and the correct use of the conventions and mechanics of written English. In English III, students practice all forms of writing, including literary, narrative, expository, persuasive, interpretive, analytical, research, and procedural/work-related writing. English III students read extensively in multiple genres from American literature and other world literature. Students learn forms and terms associated with selections being read and are able to interpret the possible influences of the historical context on literary work.

MYP English 4 Recommended

Grade 12
Prerequisite: English 3
Credit: 1.0
GPA: 4.0

Students in English IV continue to increase and refine their communication skills. Students take their writing through all the steps of the writing process on a regular basis. In addition to planning and drafting, students revise for organization and idea development and edit their papers for clarity and the correct use of the conventions and mechanics of written English. In English IV, students are expected to write in a variety of forms, including. literary, narrative, expository, persuasive, interpretive, analytical, research, and procedural/work-related writing. English IV students read extensively in multiple genres from British literature and other world literature. Students learn forms and terms associated with selections being read, and they interpret the possible influences of the historical context on a literary work.

IB DP English Language and Literature HL (IB English 3 & 4)

Grades 11 & 12
Prerequisite: English 2 PDP
Credits: 2.0
GPA: 5.0

This two-year course is organized into three areas of exploration and seven central concepts and focuses on the study of both literary and non-literary texts. Together, the three areas of exploration of the course allow the student to explore the English language through its cultural development and use, its media forms and functions, and its literature. Students develop skills of literary and textual analysis, and also the ability to present their ideas effectively. A key aim is the development of critical literacy. Students study 6 works at a higher level from a representative selection of literary forms, periods, and places. Students will develop the techniques needed for the critical analysis of communication, becoming alert to interactions between text, audience, and purpose. An understanding of how language, culture and context determine the construction of meaning is developed through the exploration of texts, some of which are studied in translation, from a variety of cultures, periods, text-types, and literary forms. Students are assessed through a combination of formal examinations and oral and written coursework and oral activities. The formal examination comprises two essay papers, one requiring the analysis of unseen literary and non-literary text, and the other a comparative response to a question based on two literary works studied. Students also perform an oral activity presenting their analysis of a literary work and a non-literary body of work studied. HL students comply with an additional written coursework requirement which consists of writing a 1200 - 1500-word essay on one of the works or bodies of work studied.

English for Speakers of Other Languages (ESOL) 1

The student is expected to meet the Texas Essential Knowledge and Skills for vocabulary, reading, writing, media literacy, research, listening and speaking as outlined by the Texas Education Agency with appropriate accommodations for English Language Learners. Vocabulary skills include dictionary usage as well as learning words from context and root study. Reading will include selections from all nine genres identified by the TEA. Planning, drafting, revising, and editing skills will be taught and practiced. Listening and speaking will be supported by Cornell note taking practice and project-based learning and presentation.

English for Speakers of Other Languages (ESOL) 2

The student is expected to meet the Texas Essential Knowledge and Skills for vocabulary, reading, writing, media literacy, research, listening and speaking as outlined by the Texas Education Agency with appropriate accommodations for English Language Learners. Vocabulary skills include dictionary usage as well as learning words from context and root study. Reading will include selections from all nine genres identified by the TEA. Planning, drafting, revising, and editing skills will be taught and practiced. Listening and speaking will be supported by Cornell Note-taking practices and project-based learning and presentation.

English 3 Transitional ESL

Students learn English 3 content and strategies as outlined by the Texas Education Agency, with appropriate ESL accommodations, to increase understanding and comprehension. Students grow language acquisition as well as literary acumen.

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ESL Reading

Students of varying language levels extend their learning and knowledge of language acquisition strategies and skills and apply these to various texts and projects.

Reading

This intervention course can enrich struggling readers with the necessary tools students need to cement reading, writing, and comprehension skills. The differentiated instruction and multi-layered lessons will increase student success in content area learning.

Language Other Than English (LOTE)

MYP: Language Acquisition DP/CP: Group 2: Language Acquisition

MYP Arabic 1 Recommended

Grade:9, 10,11, 12
Prerequisite: None
Credit: 1.0
GPA: 4.0

This is a novice level course designed to teach students the basics of Arabic phonology, morphology, calligraphy, syntax, and semantics as well as a brief introduction to Arabic history and culture.

MYP PDP Arabic 2

Grade:9, 10,11, 12
Prerequisite: Arabic 1
Credit: 1.0
GPA: 5.0

This is an intermediate level course designed to further develop students' knowledge of Arabic phonology, morphology, calligraphy, syntax, and semantics as well as continue exploring Arabic history and culture.

MYP PDP Arabic 3

Grades: 9, 10,11, 12
Prerequisite: Arabic 2
Credit: 1.0
GPA: 5.0

This is an advanced level course in Arabic morphology, syntax, and composition; students will delve deeper into understanding Arab customs and relevant historic events.

IB DP Arabic SL/HL

Grades: 11 and 12
Prerequisite: Arabic 2 or 3
Credits: 2.0 for HL, 1.0 for SL
GPA: 5.0

Students develop the ability to communicate in Arabic through the study of language, themes, and texts. In doing so, they also develop conceptual understandings of how language works. Communication is evidenced through receptive, productive, and interactive skills across a range of contexts and purposes that are appropriate to the level of the course. DP Arabic is organized into five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet. Knowledge of vocabulary and grammar (the *what* of language) is reinforced and extended by understanding audience, context, purpose, meaning and variation (the *why* and *how* of language). The development of international-mindedness is one of the key aims of the course. Students will describe situations, narrate events, make comparisons, explain problems, and state and support their personal opinions on a variety of topics. Students also produce a wide variety of oral and written texts for audiences, contexts and purposes associated with academic and personal interests. In HL, students are required to study two literary works originally written in Arabic and are expected to extend the range and complexity of the language they use and understand in order to communicate. Assessments consist of a written examination and an individual oral assessment. Oral assessment in SL includes a presentation by the student and a follow-up discussion based on a visual stimulus linked to one of the prescribed themes of the course, and a general conversation with the teacher based on at least one additional theme of the course. Oral assessment in HL includes a presentation by the student and a follow-up discussion based on an extract from one of the literary works studied during the course, and a general conversation with the teacher using one or more of the five prescribed themes of the course as a starting point.

MYP Chinese 1 Recommended

Grades: 9, 10,11, 12
Prerequisite: None
Credit: 1.0
GPA: 4.0

In Chinese 1, students will learn basic Chinese vocabulary and how to make simple sentences in Chinese. Students will learn how to pronounce Chinese using the Pinyin Romanization system and how to write the characters and pronounce the four tones in the Chinese language.
Time is spent learning about Chinese culture, some important events in Chinese history, social behaviors, cultural norms, and Chinese festivals. There is a special celebration for Chinese New Year and a Chinese calligrapher visits class to demonstrate how to write Chinese characters with the traditional maobi (writing brush) and ink stone.

MYP PDP Chinese 2

Grades 9, 10, 11, 12
Prerequisite: Chinese 1
Credit: 1.0
GPA: 5.0

In Chinese 2, students will continue their study of basic Chinese. Students will learn vocabulary and how to build sentences for shopping, days of the week, how to tell time, colors, how to count money, make phone calls to friends, and many basic daily routine vocabularies. Students will continue learning the correct stroke order for writing the characters and will learn the correct tones for each word. Each semester the class will read one outside reading book about China. The teacher will provide this book.

MYP PDP Chinese 3

Grades: 9, 10, 11, 12
Prerequisite: Chinese 2 PIB
Credit: 1.0
GPA: 5.0

In Chinese 3, students will continue their study of basic Chinese. Students will learn vocabulary and how to build sentences for a more extensive study of Chinese than that of Chinese II. Units cover a variety of topics. Students will begin writing longer essays in Chinese and practicing IB oral presentations in advance of the IB Exam which is taken in either Chinese SL or Chinese HL.

IB DP Chinese SL & HL

Grades 11 & 12
SL Prerequisite: Chinese 2 PIB
HL Prerequisite: Chinese 3 PIB
Credits: 2.0 for HL, 1.0 for SL
GPA: 5.0

Students develop the ability to communicate in Chinese through the study of language, themes, and texts. In doing so, they also develop conceptual understandings of how language works. Communication is evidenced through receptive, productive, and interactive skills across a range of contexts and purposes that are appropriate to the level of the course. DP Chinese is organized into five prescribed themes: identities, experiences, human ingenuity, social organization and sharing the planet. Knowledge of vocabulary and grammar (the *what* of language) is reinforced and extended by understanding audience, context, purpose, meaning and variation (the *why* and *how* of language). The development of international-mindedness is one of the key aims of the course. Students will describe situations, narrate events, make comparisons, explain problems, and state and support their personal opinions on a variety of topics. Students also produce a wide variety of oral and written texts for audiences, contexts and purposes associated with academic and personal interests. In HL, students are required to study two literary works originally written in Chinese and are expected to extend the range and complexity of the language they use and understand in order to communicate. Assessments consist of a written examination and an individual oral assessment. Oral assessment in SL includes a presentation by the student and a follow-up discussion based on a visual stimulus linked to one of the prescribed themes of the course, and a general conversation with the teacher based on at least one additional theme of the course. Oral assessment in HL includes a presentation by the student and a follow-up discussion based on an extract from one of the literary works studied during the course, and a general conversation with the teacher using one or more of the five prescribed themes of the course as a starting point.

MYP French 1 Recommended

Grades: 9, 10, 11, 12
Prerequisite: None
Credit: 1.0
GPA: 4.0

Students are introduced to the study of French by expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend basic vocabulary words in French, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries.

MYP PDP French 2

Grades: 9,10,11,12
Prerequisite: French 1
Credit: 1.0
GPA: 5.0

Students have already learned the structures necessary to communicate in French. They further review and refine their grammatical structures while learning new vocabulary to communicate in French on a variety of topics. PDP French 2 course emphasizes all aspects of language learning: listening, speaking, reading, writing and culture. This course is designed to prepare students to cope with language learning challenges faced by Diploma Students. There is fully a stronger emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be more actively engaged in their own language learning, understand complex vocabulary terms and phrases, use a wider range of grammar patterns in their speaking and writing, participate more in conversations and respond more appropriately to conversational prompts, analyze and further compare cultural practices, products, and perspectives of various French-speaking countries.

MYP PDP French 3

Grades: 9, 10, 11, 12
Prerequisite: PDP French 2
Credit: 1.0
GPA: 5.0

The course begins with a review of the material covered in French 1 & 2. Students will improve communicative proficiency in the four skills of listening, speaking, reading, and writing. Students work to expand their understanding of vocabulary and grammar. Students increase awareness and foster an understanding of French Speaking cultures and are encouraged to develop a life-long love of language acquisition

and exploration of new cultures.

IB DP French SL & HL

Grades: 11 & 12
SL Prerequisite: PDP French 2
HL Prerequisite: PDP French 3
Credits: 2.0 for HL, 1.0 for SL
GPA: 5.0

Students continue to develop vocabulary and perfect fluency in contextual, conversational situations. Theory of Knowledge discussions and course readings focus on the following: Customs and Traditions, Cultural Diversity, Leisure Activities, Health, Science and Technology. Students continue to develop the ability to communicate in French through the study of language, themes, and texts. In doing so, they also develop conceptual understandings of how language works. Communication is evidenced through receptive, productive, and interactive skills across a range of contexts and purposes that are appropriate to the level of the course. Knowledge of vocabulary and grammar (the *what* of language) is reinforced and extended by understanding audience, context, purpose, meaning and variation (the *why* and *how* of language). The development of international-mindedness is one of the key aims of the course. Students will describe situations, narrate events, make comparisons, explain problems, and state and support their personal opinions on a variety of topics. Students also produce a wide variety of oral and written texts for audiences, contexts and purposes associated with academic and personal interests. In HL, students are required to study two literary works originally written in French and are expected to extend the range and complexity of the language they use and understand in order to communicate. Assessments consist of a written examination and an individual oral assessment. Oral assessment in SL includes a presentation by the student and a follow-up discussion based on a visual stimulus linked to one of the prescribed themes of the course, and a general conversation with the teacher based on at least one additional theme of the course. Oral assessment in HL includes a presentation by the student and a follow-up discussion based on an extract from one of the literary works studied during the course, and a general conversation with the teacher using one or more of the five prescribed themes of the course as a starting point.

MYP Spanish 1 Recommended

Grades: 9, 10, 11,12
Prerequisite: None
Credit: 1.0
GPA: 4.0

This course will provide the student with a general introduction to the Spanish language: sound system, pronunciation, functional vocabulary related to everyday life, cultural information, and basic grammatical structures. Emphasis will be on the acquisition of four skills: listening, speaking, reading and limited writing. There are two main objectives to the course. Foremost is to give the students the ability to carry on a simple conversation. The second is to provide the students with instruction that teaches a basic understanding of Spanish culture, vocabulary, and grammatical concepts.

MYP PDP Spanish 2

Grades: 9, 10, 11, 12
Prerequisite: Spanish 1
Credit: 1.0
GPA: 5.0

Spanish 2 focuses on the development of novice language skills that can be immediately used and built on in future language courses, most specifically advanced levels of Spanish. The course seeks to help students develop knowledge of basic language skills through a variety of classroom and outside activities. The linguistic abilities necessary to achieve the specific objective of the MYP (Middle Years Program) are speaking and listening, writing, and reading comprehension.

MYP PDP Spanish 3

Grades: 9, 10, 11, 12
Prerequisite: Spanish 2
Credit: 1.0
GPA: 5.0

Spanish 3 PDP will be a proficiency-oriented curriculum in which students will learn to use the language as accurately as possible in simulated real-life situations. Grammar and vocabulary will be taught at an accelerated pace with advanced constructions. Vocabulary will also include elements most frequently used in daily life. The four skills of reading, writing, listening, and speaking will be taught in context along with culture.

Spanish Seminar
Grades: 9 or 10
Prerequisite: Spanish 3
Credit: 1.0
GPA: 4.0

This course is intended for students who enter Lamar with 2 or more Spanish credits. These students cannot enter IB Diploma Level Spanish until 11th grade. This course is designed to improve the student's Spanish language skills and prepare them for the rigor of the IB Diploma Level Spanish course.

IB DP Spanish SL & HL (Spanish 4, 5, & 6) Grades: 11 & 12
SL Prerequisites: Prel8 Spanish 2
HL Prerequisites: Prel8 Spanish
3 Credits: 2.0 for HL, 1.0 for SL
GPA: 5.0

This is a college level course designed to advance students' abilities to use the language they have studied as a basis for further study, work, and leisure. Students will continue to perfect their grammar skills and increase vocabulary while reading, reflecting about, and specifying their own personal opinion about a variety of texts relating to controversial topics. The primary focus at this level is to become precise in the use of the language, with a particular focus on spoken language.
Students continue to develop the ability to communicate in Spanish through the study of language, themes, and texts. In doing so, they also develop conceptual understandings of how language works. Communication is evidenced through receptive, productive, and interactive skills across a range of contexts and purposes that are appropriate to the level of the course. Knowledge of vocabulary and grammar
(the *what* of language) is reinforced and extended by understanding audience, context, purpose, meaning and variation
(the *why* and *how* of language). The development of international-mindedness is one of the key aims of the course. Students will describe situations, narrate events, make comparisons, explain problems, and state and support their personal opinions on a variety of topics. Students also produce a wide variety of oral and written texts for audiences, contexts and purposes associated with academic and personal interests. In HL, students are required to study two literary works originally written in Spanish and are expected to extend the range and complexity of the language they use and understand in order to communicate. Assessments consist of a written examination and an individual oral assessment. Oral assessment in SL includes a presentation by the student and a follow-up discussion based on a visual stimulus linked to one of the prescribed themes of the course, and a general conversation with the teacher based on at least one additional theme of the course. Oral assessment in HL includes a presentation by the student and a follow-up discussion based on an extract from one of the literary works studied during the course, and a general conversation with the teacher using one or more of the five prescribed themes of the course as a starting point.

Mathematics

MYP: Mathematics DP/CP: Group 5: Mathematics

MYP Algebra 1 Recommended
Grade: 9
Prerequisites: None
Credit: 1.0
GPA: 4.0

Students will begin to develop the abstract study of numbers and the ability to reason symbolically. The key content involves identifying the critical attributes of linear, quadratic, and exponential equations; and using these attributes in writing equations, graphing, interpreting, and applying them in real-world scenarios. Algebraic skills are applied in a wide variety of problem-solving situations. The course also includes polynomial expressions, inequalities (one- and two-dimensional), laws of exponents, and evaluating rational expressions. The skills developed in Algebra are critical and foundational to the study of Geometry and Intermediate Algebra, as well as the quantitative aspects of other fields or professions.

MYP PDP Algebra 1
Grade: 9 Prerequisites:
None Credit: 1.0
GPA: 5.0

This class takes a deeper examination of topics covered in Recommended Algebra 1. It is more rigorous and thus requires students with a higher level of mathematical competency. Required for students wishing to take IB DP Math in their junior year.

MYP Geometry Recommended
Grade: 10
Prerequisites: Algebra 1
Credit: 1.0
GPA: 4.0

Geometry is an Algebra based course. The course examines algebraic principles and integrates them into the parameters of Euclidean Geometry. Students adapt these principles working with proofs, two-dimensional figures, and three-dimensional figures. Students adapt these principles working with proofs, two-dimensional figures, and three-dimensional figures. Geometry promotes a powerful universal language, analytical reasoning and problem-solving skills that contribute to the development of logical, abstract, and critical thinking. We will study congruence, similarity, lines, quadrilaterals, triangles, circles, basic trigonometry, proofs, volume, and surface area. The goal is for students to see how geometry is applied to their everyday lives.

MYP PDP Geometry Grade: 9 or 10 Prerequisites: PDP Algebra 1 Credit: 1.0
GPA: 5.0

This class takes a deeper examination of topics covered in Recommended Geometry. It is more rigorous and thus requires students with a higher level of mathematical competency. Required for students wishing to take IB DP Math in their junior year.

MYP PDP Algebra 2 Grade: 9 or 10 Prerequisites: Geometry Credit: 1.0
GPA: 5.0

This class takes a deeper examination of topics covered in Recommended Algebra 2; therefore, it is more rigorous, thus requiring students with a higher level of mathematical competency. Required for students wishing to take IB DP Math in their junior year.

AP Pre-Calculus
Grade: 10
Prerequisites: PDP Geometry Credit: 1.0
GPA: 5.0

This course is only for students who complete Algebra 1, Algebra 2, *and Geometry prior to 10th grade.* AP Precalculus centers on functions modeling dynamic phenomena. This research-based exploration of functions is designed to better prepare students for college-level calculus and provide grounding for other mathematics and science courses. In this course, students study a broad spectrum of function types that are foundational for careers in mathematics, physics, biology, health science, business, social science, and data science.

MYP Algebra 2 Recommended
Grade: 11
Prerequisites: Geometry Credit: 1.0
GPA: 4.0

Students will continue their exploration of Algebraic topics, building on the knowledge and skills from Algebra I. Students will broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Students will begin to investigate 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 extend their knowledge of data analysis and numeric and algebraic methods.

MYP Statistics
Grade: 12

Prerequisites: Geometry Credit: 1.0
GPA: 4.0

The course introduces students to the theory of probability and its field of application, statistics. Topics studied include descriptive measures for empirical data, the theory of probability, probability distributions, sampling distributions of statistics from large and small samples, hypothesis testing, correlation, and regression.

IB DP Applications & Interpretations (AI) SL/HL

Grade: 11 and 12 Prerequisites: PDP Geometry Credits: 2.0
GPA: 5.0

This course recognizes the increasing role that mathematics and technology play in a diverse range of fields in a data-rich world. As such, it emphasizes the meaning of mathematics in context by focusing on topics that are often used as applications or in mathematical modeling. To give this understanding a firm base, this course also includes topics that are traditionally part of a pre-university mathematics course such as calculus and statistics.
The course makes extensive use of technology to allow students to explore and construct mathematical models. Mathematics: applications and interpretation will develop mathematical thinking, often in the context of a practical problem and using technology to justify conjectures.
Students who choose this subject at Standard (SL) or Higher Level (HL) should enjoy seeing mathematics used in real-world contexts and to solve real-world problems. Students who wish to take Mathematics: applications and interpretation at HL will have good algebraic skills and experience of solving real-world problems. They will be students who get pleasure and satisfaction when exploring challenging problems and who are comfortable undertaking this exploration using technology.

AI-SL: Students who are interested in pursuing careers in social sciences, natural sciences, medicine, statistics, business, economics, psychology, or design. Recommended pairing with the following science class: Biology SL, Biology HL, or Environmental SL.
AI-HL: Students who are interested in pursuing careers in social sciences, natural sciences, medicine, statistics, business, economics, psychology, or design. This class takes a deeper examination of topics covered in SL; therefore, it is more rigorous, thus requiring students with a higher level of mathematical competency. Recommended pairing with the following science class: Biology HL or Physics HL.

IB DP Analysis & Approaches (AA) HL

Grade: 11 and 12 Prerequisites: PDP Geometry Credits: 2.0
GPA: 5.0

This course recognizes the need for analytical expertise in a world where innovation is increasingly dependent on a deep understanding of mathematics. This course includes topics that are both traditionally part of a pre-university mathematics course (for example, functions, trigonometry, calculus) as well as topics that are amenable to investigation, conjecture, and proof, for instance the study of sequences and series.

The course allows the use of technology, as fluency in relevant mathematical software and hand-held technology is important regardless of choice of course. However, there is a strong emphasis on the ability to construct, communicate and justify correct mathematical arguments. There will be a recognition that the development of mathematical thinking is important for a student.

Students who choose this subject should be comfortable in the manipulation of algebraic expressions and enjoy the recognition of patterns and understand the mathematical generalization of these patterns. Students who wish to take Mathematics: analysis and approaches at HL will have strong algebraic skills and the ability to understand simple proof. They will be students who enjoy spending time with problems and get pleasure and satisfaction from solving challenging problems.

AA-HL: Students who are interested in pursuing careers in mathematics, engineering, computer science, or physical science. This class takes a deeper examination of topics covered in SL; therefore, it is more rigorous, thus requiring students with a higher level of mathematical competency. Recommended pairing with the following science class: Chemistry SL, Physics SL or Physics HL.

SCIENCE

MYP: Sciences
DP/CP: Group 4: Experimental Sciences

Biology Recommended

Grade 9 Prerequisite: None Credit: 1.0
GPA: 4.0

This course will introduce students to inquiry-based learning through laboratory experiments and discussions based on biology as foundation for understanding biology. Topics include an introduction to biological molecules, membrane structure and function, expression of genetic information, the cell cycle, and cancer. This course will also introduce students to the fundamentals of science, such as the scientific method to advance investigations into cell structure and function as a consequence of evolutionary processes. Lastly, this class will educate students about the importance of taxonomy classification, ecosystems, plant systems, and body systems.

PDP Biology Grade 9 Prerequisite: None Credit: 1.0
GPA: 5.0

This course includes the standard Biology curriculum while introducing topics that students will see in IB DP Biology. Students will gain more in-depth knowledge of biomolecules, genetics, and specialized cells and their functions.

Chemistry Recommended

Grade 9 or 10 Prerequisite: Biology Credit: 1.0
GPA: 4.0
This course is taught at Lamar High School as a second-year science course. This course is designed for students to understand the fundamental principles of chemistry which characterize the properties of matter and how it reacts. The course is taught with the flipped assignment using carefully selected online videos (or online course resources) and traditional classroom discussion with hands-on laboratory techniques. Throughout the course students are taught to obtain, organize, and analyze data. Conclusions are developed using both qualitative and quantitative procedures.

PDP Chemistry Grade 9 or 10 Prerequisite: Biology Credit: 1.0
GPA: 5.0

This course is taught at Lamar High School as a second-year science course. This course is designed for students to understand the fundamental principles of chemistry which characterize the properties of matter and how it reacts. The course is taught with the flipped assignment using carefully selected online videos (or online course resources) and traditional classroom discussion with hands-on laboratory techniques. Throughout the course students are taught to obtain, organize, and analyze data. Conclusions are developed using both qualitative and quantitative procedures. Students are challenged to relate science and chemistry in their daily lives that they have learned in this course.

PDP Physics

Grade 10
Prerequisite: Chemistry Credit: 1.0
GPA: 5.0

This course is for 10th graders who completed Biology in 8th grade. In this course, students will learn to analyze the physical interactions that govern reality and develop novel solutions to global problems using mathematical models. The relationship between course concepts and the environment is emphasized as part of the MYP fundamental concepts. The students will be encouraged to adapt the IB learner profile to their own academic development as they study the physics curriculum and its lab applications.

Anatomy and Physiology

Grade 11
Prerequisite: Chemistry Credit: 1.0
GPA: 4.0

Anatomy and Physiology is a discussion and laboratory-based study of the human body. The study will include molecules, cells, body systems, and processes. The format of the course will ensure student-driven learning through real-life application of concepts. Throughout the year, students will be encouraged to become inquirers, communicators, principled, risk takers, balanced, caring, and reflective in their learning. This course builds on biological concepts taught in 9th grade Biology.

Aquatic Science

Grade 12
Prerequisite: Anatomy and Physiology Credit: 1.0
GPA: 4.0

This course will introduce students to the fundamentals of science, such as scientific methods and basic physical science as a foundation for understanding marine biology. The main focus of this class will be on the ecology of the marine environment. It will also introduce students to all

of the major groups of marine organisms either through examination or dissection. Lastly, this class will educate students about the importance of marine ecosystems to terrestrial ecosystems and to mankind.

Diploma Program Sciences:

In most cases, both SL and HL courses consist of the same educational aims, core syllabus and curriculum, and assessment models. The assessment criteria are equally demanding for both levels. The difference is in the depth of the study that the course offers. All Diploma level sciences are two-year courses spanning 11th and 12th grades. Students must enroll in both years of the course.

IB DP Biology

Grades 11 & 12 Prerequisite: Chemistry PDP Credits: 2.0
GPA: 5.0

Biologists investigate the living world at all levels using many different approaches and techniques. Students investigate everything from a micro to a macro level in this dynamic, fascinating, and challenging field. Students apply the body of biological knowledge, methods, and techniques to practical scenarios. This course is for students interested in life sciences, medicine, biomedical sciences, biotechnology fields, veterinary medicine, bioengineering.

IB DP Biology (SL)

IB Biology SL at Lamar High School provides students with extensive material such as basic biochemistry, cell structure and function, genetic patterns of inheritance, plant function, evolution, ecology, and the international nature of science. Lamar's student environment promotes critical thinking with rigorous class activity. Students will acquire advanced knowledge of experimental procedures and data examination.

IB DP Biology (HL)

At Lamar High School, the IB Biology HL course will provide students with higher order investigative experiences. Activities throughout the course will promote a deeper understanding of critical concepts in Biology. Such concepts will include basic molecular biology, biochemistry, genetic patterns of inheritance, plant form and function, evolution, ecology, animal physiology and the international nature of science. It will emphasize the development of inquiry skills and higher order thinking via experiential learning in both classroom and laboratory settings.

IB DP Chemistry:

Grades 11 & 12 Prerequisite: Chemistry PDP Credits: 2.0
GPA: 5.0

Chemistry is an experimental science that combines academic study with the acquisition of practical and investigational skills. Often called the central science as chemical principles underpin both the physical environment in which we live and all biological systems. The DP chemistry course allows students to develop a wide range of practical skills and to increase facility in the use of mathematics. For students interested in medicine, biomedical sciences, technology fields, veterinary medicine, chemical engineering.

IB DP Chemistry (SL)

IB Chemistry Standard Level course promotes students' academic study with the acquisition of practical and investigational skills that are essential for experimental science. It facilitates students' development of a wide range of practical skills and enhances their ability in the use of mathematics that are both transferable to other scientific fields and crucial for 21st century learners.

IB DP Physics

Grades 11 & 12 Prerequisite: Chemistry PDP Credits: 2.0
GPA: 5.0

Physics is the most fundamental of experimental sciences, as it seeks to explain the universe itself from the very smallest particles to the vast distances between galaxies. Observations are the core of the subject. Models are developed to try to understand observations, and theses themselves can become theories that attempt to explain observations. For students interested in engineering, further exploration of higher-level applied mathematics, any field within the sciences, design.

IB DP Physics (SL)

You are interested in comprehending how things work from first principles. You wish to pursue a greater understanding of the mathematical beauty of the universe from the sub-atomic scale to the cosmological scale.

IB DP Physics (HL)

You love the idea of comprehending how things work from first principles. You wish to pursue a greater understanding of the mathematical beauty of the universe from the sub-atomic scale to the cosmological scale. You hope to continue to study physics-related field after high school. In this sequence, students will learn to analyze the physical interactions that govern reality and develop novel solutions to global problems using mathematical models. The relationship between course concepts and the environment is emphasized as part of the fundamental IB concepts. The students will be encouraged to adapt the IB learner profile to their own academic development as they study the physics curriculum and its lab applications.

IB DP Environmental Systems and Societies (SL)

Grades 11 & 12 Prerequisite: Chemistry PDP Credits: 2.0
GPA: 5.0

You possess a wide range of skills, including the ability to perform research and investigations, participation in philosophical *discussion* and problem-solving. Through studying ESS, students will be provided with a coherent perspective of the interrelationships between environmental systems and societies; one that enables them to adopt an informed personal response to the wide range of pressing environmental issues that they will inevitably come to face. Students develop thinking and research skills related to text analysis, comprehension, knowledge transfer, and use of primary sources. For students interested in the liberal arts, interdisciplinary studies, human sciences, political science, non-science endeavors.

IB DP Sports, Exercise and Health Science

Grade 12
Prerequisite: Anatomy & Physiology Credits: 1.0
GPA: 5.0

The SEHS course incorporates the disciplines of anatomy and physiology, biomechanics, psychology, and nutrition, which are studied in the context of sport, exercise, and health. A combination of syllabus content and experimental work provides the opportunity for students to acquire the knowledge and understanding necessary to apply scientific principles and analyze human performance. The SEHS course has strong international dimensions such as international sporting competitions and the international bodies that regulate them. Ethical issues that exist within sporting competitions are considered.

Social Studies

MYP: Individuals & Societies
DP: Group 3: Individuals and Societies

MYP World Geography Recommended

Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

The world geography course introduces students to the world in spatial terms where they use tools such as maps, mental maps, and other data tools to learn about places and regions. Students learn how physical systems and environment affect society, population, and migration. They also learn how social cultural aspects influence people's perceptions. Political systems, economic activity and conflict and cooperation among peoples and countries are likewise explored so that students learn about the background that has led to the globalization the world finds itself in today.

MYP PDP Geography Grade: 9 Prerequisites: None Credit: 1.0
GPA: 5.0

This Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use,

and alternation of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.

MYP World History Recommended

Grade: 10
Prerequisites: World Geography Credit: 1.0
GPA: 4.0

The World History curriculum is a rich, integrated study of historical events with significant consequences for the evolution of man, culture, institutions, customs, thought, ideas, and philosophy. Students will read and frequently examine historical events and perspectives to obtain knowledge and comprehensive skills while developing into a global citizen.

AP World History

Grade: 10
Prerequisites: World Geography Credit: 1.0
GPA: 5.0

The AP World History course focuses on developing students' understanding of world history from approximately 8000 B.C.E. to the present. The course has students investigate the content of world history for significant events, individuals, developments, and processes in six historical periods, and develop and use the same thinking skills and methods (analyzing primary and secondary sources, making historical comparisons, chronological reasoning, and argumentation) employed by historians when they study the past. The course also provides five themes (interaction between humans and the environment; development and interaction of cultures; state building, expansion, and conflict; creation, expansion, and interaction of economic systems; and development and transformation of social structures) that students explore throughout the course in order to make connections among historical developments in different times and places encompassing the five major geographical regions of the globe: Africa, the Americas, Asia, Europe, and Oceania.

MYP US History Recommended

Grade: 11
Prerequisites: World History/AP World History Credit: 1.0
GPA: 4.0

In this course, the second part of a two-year study of U.S. history that begins in Grade 8, students study the history of the United States from Reconstruction to the present through the use of reading, research, writing, and interpretation of maps, charts, graphs, and tables. Historical content focuses on political, economic, military, diplomatic, and social events and issues, including the contributions of significant groups and individuals to the history of this country, and the impact of geographic factors on major events. An important part of the content is the development and application of the principles of citizenship. Students will use critical thinking skills to explain and apply methods of interpreting the past, including points of *view* and historical context. They will use a variety of rich primary and secondary source material, such as biographies and autobiographies, Supreme Court cases, novels, speeches, letters, diaries, poetry, songs, artworks, photographs, documentaries, and films.

MYP PDP US History

Grade: 11
Prerequisites: World History/AP World History Credit: 1.0
GPA: 5.0

This course promotes the ongoing development of students' knowledge and skills in the areas of historical analysis, evaluation, and synthesis. This goal will be accomplished through various learning experiences throughout each six weeks. The primary goal of the PIB U.S. History course is the ongoing development in the areas of analysis, evaluation, and synthesis in the 11th grade IB student. This goal will be accomplished through various assignments throughout each six weeks. The United States history course covers the period from 1877 through the present day.

MYP Government Recommended

Grades: 11 or 12 Prerequisites: None Credit: 0.5
GPA: 4.0

In the United States Government, the focus is on the principles and beliefs upon which the United States was founded and, on the structure, functions, and powers of government at the national, state, and local levels. Students learn major political ideas and forms of government in

history. A significant focus of the course is on the U.S. Constitution, its underlying principles and ideas, and the form of government it created. Students analyze major concepts of republicanism, federalism, checks and balances, separation of powers, popular sovereignty, and individual rights and compare the U.S. system of government with other political systems.

AP US Government

Grades: 11 or 12 Prerequisites: None Credit: 0.5
GPA: 5.0

AP U.S. Government and Politics studies the nature of the American Political System, its development over the past two hundred years, and how it works today in the 21st century. This course will give an analytical perspective on government and politics in the United States.

MYP Economics Recommended

Grades: 12 Prerequisites: None Credit: 0.5
GPA: 4.0

Economics with Emphasis on the Free Enterprise System and Its Benefits is the culmination of the economic content and concepts studied from kindergarten through required secondary courses. The focus is on the basic principles concerning production, consumption, and distribution of goods and services (the problem of scarcity) in the United States and a comparison with those in other countries around the world. Students analyze the interaction of supply, demand, and price. Students will investigate the concepts of specialization and international trade, economic growth, key economic measurements, and monetary and fiscal policy.

IB DP Economics SL/HL Grades: 11 and/or 12 Prerequisites: None Credits: 2.0 for HL, 1.0 for SL
GPA: 5.0

Economics is an exciting, dynamic subject that allows students to develop an understanding of the complexities and interdependence of economic activities in a rapidly changing world. At the heart of economic theory is the problem of scarcity. While the world's population has unlimited needs and wants, there are limited resources to satisfy these needs and wants. As a result of this scarcity, choices have to be made. The DP economics course, at both SL and HL, uses economic theories to examine the ways in which these choices are made:

- at the level of producers and consumers in individual markets (microeconomics)
- at the level of the government and the national economy (macroeconomics)
- at an international level where countries are becoming increasingly interdependent through international trade and the movement of labor and capital (the global economy).
- As a social science, economics examines these choices using models and theories. Given the rapidly changing world, economic activity and its outcomes are constantly in flux. Therefore, students are encouraged, throughout the course, to research current real-world issues.

Through their own inquiry, it is expected that students will be able to appreciate both the values and limitations of economic models in explaining real-world economic behavior and outcomes. By focusing on the six real-world issues through the nine key concepts (scarcity, choice, efficiency, equity, economic well-being, sustainability, change, interdependence and intervention), students of the DP economics course will develop the knowledge, skills, values and attitudes that will encourage them to act responsibly as global citizens.

Personal Financial Literacy and Economics

Grade: 12 Prerequisites: None Credit: 0.5
GPA: 4.0

The Personal Financial Literacy and Economics course

- provides a foundation in microeconomics and macroeconomics,
- requires that students demonstrate critical thinking by exploring how to invest in themselves, earn income, and budget for spending, saving, investing, and protecting,
- examines individual responsibility for managing their personal finances and understands the impact on standard of living and long-term financial well-being, and
- allows students to connect how their financial decision making impacts the greater economy.

IB DP Art History SL Grades: 11 or 12 Prerequisites: None Credit: 1.0
GPA: 5.0

The goal of the IB Art History course is to initiate the development of the students' connoisseurship in the visual arts. The Art History option

should be particularly attractive to students who are interested in art but whose strengths do not lie in practical studio work.

IB DP History of the Americas HL
Grade: 12
Prerequisites: PDP US History Credit: 1.0
GPA: 5.0

History of the Americas is an exploratory subject that fosters a sense of inquiry. It is also an interpretive discipline, allowing opportunity for engagement with multiple perspectives and opinions. Studying history develops an understanding of the past, which leads to a deeper understanding of the nature of humans and of the world today. This course is based on a comparative, multi-perspective approach to history and focused around key historical concepts such as change, causation and significance. It involves the study of a variety of types of history, including political, economic, social, and cultural, encouraging students to think historically and to develop historical skills. In this way, the course involves a challenging and demanding critical exploration of the past.

IB DP Philosophy SL
Grades: 11 or 12
Credit 1.0
GPA: 5.0

IB Philosophy SL at Lamar High School is a one-year IB course. IB Philosophy students are challenged to develop their own philosophical voice and to grow into independent thinkers. They develop their skills through the study of philosophical themes and the close reading of a philosophical text. They also learn to apply their philosophical knowledge and skills to real-life situations and to explore how non-philosophical material can be treated in a philosophical way. Studying philosophy provides an opportunity for students to engage with some of the world's most interesting and influential thinkers. It also develops highly transferable skills such as the ability to formulate arguments clearly, to make reasoned judgments and to evaluate highly complex and multifaceted issues. The emphasis of the Diploma Programme philosophy course is on "doing philosophy", that is, on actively engaging students in philosophical activity. The course is focused on stimulating students' intellectual curiosity and encouraging them to examine both their own perspectives and those of others.

IB DP Psychology SL
Grades: 11 or 12 Prerequisites: None Credit: 1.0
GPA: 5.0

Students undertaking this course can expect to develop an understanding of how psychological knowledge is generated, developed, and applied. This will allow them to have a greater understanding of themselves and appreciate the diversity of human behavior. The holistic approach reflected in the curriculum, which sees biological, cognitive, and sociocultural analysis being taught in an integrated way ensures that students are able to develop an understanding of what all humans share, as well as the immense diversity of influences on human behavior and mental processes. The ethical concerns raised by the methodology and application of psychological research are also key considerations of the IB psychology course. The scientific methodology used in Psychology provides students with a unique way to study and understand human behavior. The knowledge gained in the course will help support the learning in many of our CTE Pathways.

IB DP World Religions SL Grades: 11 or 12 Prerequisites: None
Credit: 1.0
GPA: 5.0

The IB DP World Religions course is a systematic, analytical yet empathetic study of the variety of beliefs and practices encountered in nine main religions of the world. The course seeks to promote an awareness of religious issues in the contemporary world by requiring the study of a diverse range of religions. Religions are studied in such a way that students acquire a sense of what it is like to belong to a particular religion and how that influences the way in which the followers of that religion understand the world, act in it, and relate and respond to others.

IB Core

Theory of Knowledge

Grades 11 & 12
IB Diploma Program Only Credit: 1.0
GPA: 5.0

Theory of Knowledge (TOK) is a course about critical thinking and inquiring into the process of knowing, rather than about learning a specific body of knowledge. It plays a special role in the IB Diploma Program by providing an opportunity for students to reflect on the nature of knowledge, to make connections between areas of knowledge and to become aware of their own perspectives and those of the various groups whose knowledge they share. It is a core element undertaken by all DP students.
Theory of Knowledge (TOK) plays a special role in the International Baccalaureate Diploma Programme, by providing an opportunity for students to reflect on the nature of knowledge, and on how we know what we claim to know. It is one of the components of the DP core and is mandatory for all students. The TOK requirement is central to the educational philosophy of the DP. As a thoughtful and purposeful inquiry into different ways of knowing, and into different kinds of knowledge, TOK is composed almost entirely of questions.

The most central of these is "How do we know?", while other questions include:
What counts as evidence for X?
How do we judge which is the best model of Y? What does theory Z mean in the real world?

Through discussions of these and other questions, students gain greater awareness of their personal and ideological assumptions, as well as develop an appreciation of the diversity and richness of cultural perspectives.

Personal and Professional Skills

Grades 11 & 12
IB Career-related Program Only Credit: 1.0
GPA: 5.0

A core component of the IB Career-related Programme (CP), personal and professional skills is designed for students to develop attitudes, skills, and strategies to be applied to personal and professional situations and contexts now and in the future. In this course, the emphasis is on skills development for the workplace, as these are transferable and can be applied in a range of situations. The CP core enhances students' personal and interpersonal development, with an emphasis on experiential learning.
This course is only available to students completing the CP and runs spring of junior year through fall of senior year.

Career and Technical Education MYP: Design

Agriculture, Food, and Natural Resources

Animal Science Principles of Agriculture Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. Students will explore multiple competencies related to agriculture through this course.

Livestock Production

Grade: 10
Prerequisites: Principles of Agriculture Credit: 1.0
GPA: 4.0

This course provides instruction on related careers in the field of animal science. Students will acquire knowledge and skills related to animal systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Animal species to be addressed in this course may include, but are not limited to, beef cattle, dairy cattle, swine, sheep, goats, and poultry.

Veterinary Medical Applications

Grade: 11
Prerequisites: Livestock Production Credit: 1.0
GPA: 4.0

This course provides instruction on related careers in the field of veterinary medicine and develops knowledge and skills regarding career opportunities, entry requirements, and industry expectations. Suggested animals which may be included in the course of study include, but are not limited to, small mammals, amphibians, reptiles, avian, dogs, and cats.

Equine Science

Grade: 11
Prerequisites: Livestock Production Credit: 0.5
GPA: 4.0

This course provides instruction related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Small Animal Management

Grade: 11
Prerequisites: Livestock Production Credit: 0.5
GPA: 4.0

This course provides instruction In Small Animal Management. Students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to amphibians, reptiles, birds and small mammals such as dogs and cats.

Advanced Animal Sciences

Grade: 12
Prerequisites: Small Animal Management and Equine Science Credit: 1.0
GPA: 4.0

This course examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences.

Practicum in Agriculture, Food, and Natural Resources: Veterinary Science

Grade: 12
Prerequisites: Veterinary Medical Applications Credit: 2.0
GPA: 4.0

The Veterinary Science Practicum is designed to give students supervised practical applications of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. Students will be required to obtain a position or placement in a Veterinary Clinic through the assistance of the Program Coordinator.

Plant Science

Principles of Agriculture

Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

This course allows students to develop knowledge and skills regarding career opportunities, personal development, globalization, industry standards, details, practices, and expectations. Students will explore multiple competencies related to agriculture through this course.

Horticulture Science

Grade: 10
Prerequisites: Principles of Agriculture Credit: 1.0
GPA: 4.0

Horticulture Science is designed to develop an understanding of common horticulture management practices as they relate to food and ornamental plant production. Students will learn about careers in various areas of the horticulture industry, the personal skills needed to obtain one of these jobs and how skills needed for success have changed *over* time.

Floral Design

Grade: 11
Prerequisites: Horticulture Science Credit: 1.0
GPA: 4.0

Principles and Elements of Floral Design is a course designed to give students a deeper understanding of artistic floral design techniques and the floral industry. Students will identify flowers and plants used in floral design and demonstrate design elements in relation to specific occasions. The student will explore career opportunities, practice management factors of the floral enterprise, and evaluate arrangements based on the artistic principles and elements of floral design.

Landscape Design

Grade: 11
Prerequisites: Horticulture Science
Credit: 0.5
GPA: 4.0

Landscape Design and Management is designed to develop an understanding of landscape design and management techniques and practices. Students will acquire knowledge and skills relating to designing landscape plans, landscape plant identification and care, and installing landscape plants. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Turf Grass Management

Grade: 11
Prerequisites: Horticulture Science
Credit: 0.5
GPA: 4.0

Turf Grass Management is designed to develop an understanding of turf grass management techniques and practices. Students will acquire knowledge and skills relating to identifying, growing, and caring for turfgrass. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

Practicum in Agriculture, Food, and Natural Resources: Horticulture

Grade: 12
Prerequisites: Turf Grass Management Credit: 2.0
GPA: 4.0

The Horticulture Science Practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. Students will be required to obtain a position or placement through the assistance of the Program Coordinator.

Arts, Audio/Video Technology, and Communications

Broadcast Journalism

The AV Production classes produce Lamar's daily newscast. The classes are entirely student-centered and production oriented. Student assessment and grades are based on a myriad of projects the students produce.

Principles of Arts, Audio/Video Technology & Communication

Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

The goal of this course is for the student to understand arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Audio Video Production 1

Grade: 10
Prerequisites: Principles of Arts, Audio/Video Technology & Communication Credit:
1.0
GPA: 4.0

Audio Video Production students need to be critical viewers, consumers, and producers of media. The ability to access, analyze, evaluate, and produce communication in a variety of forms is an important part of language development. Students enrolled in these courses will apply and use journalistic skills for a variety of purposes. In addition to developing technical 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 pre-production, production, post-production audio, and video products.

Audio Video Production 2

Grade: 11
Prerequisites: Audio Video Production 1 Credit: 1.0
GPA: 4.0

Building upon the concepts taught in Audio/Video Production, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. This course may be implemented in an audio format or a format with both audio and video.

Digital Audio Technology

Grade: 12
Prerequisites: Audio Video Production 2 Credit: 1.0
GPA: 4.0

Digital Audio Technology was designed to provide students interested in audio production careers such as audio for radio and television broadcasting, audio for video and film, audio for animation and game design, music production and live sound, and additional opportunities and skill sets. Students will be expected to develop an understanding of the audio industry with a technical emphasis on production and critical-listening skills.

Print Journalism

Students in this pathway create the *Lamar Life* publication and *The Republic. Lamar Life* is the student newspaper published once a month, and *The Republic* is the annual Lamar yearbook.

Principles of Arts, Audio/Video Technology & Communication

Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

The goal of this course is for the student to understand arts, audio/video technology, and communications systems. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Graphic Design & Illustration 1

Grade: 10
Prerequisites: Principles of Arts, Audio/Video Technology & Communication Credit: 1.0 GPA: 4.0

The mission of the graphic design I class is to prepare all students to become successful career professionals in the field of Digital Media

design. Students will be given the opportunity to explore the design process and using critical thinking skills, find creative visual solutions while designing many of their own projects. Software training includes the use of Adobe, In Design and Photoshop. The class is project based and allows students to work on various Lamar publications.

Graphic Design & Illustration 2
Grade: 11
Prerequisites: Graphic Design & Illustration 1 Credit: 1.0
GPA: 4.0

This class is project-based, requiring uniquely independent work and self-management career skills. The foundation and pathway standards make explicit the appropriate knowledge, skills, and practical experience students should have to pursue their chosen profession through whatever course of post-secondary, collegiate, and graduate training or apprenticeship it may require. Learning the skills and knowledge for creating, refining, and exhibiting works of art promotes teamwork, communication, creative thinking, and decision-making abilities-all traits needed to function successfully in the competitive and media-rich twenty-first century. Students will work on Lamar's various publications.

Commercial Photography 1
Grade: 12
Prerequisites: Graphic Design & Illustration 2 Credit: 1.0
GPA: 4.0

Students in Photography will develop and expand their skills in producing both artistic and commercial photographs using digital DSLR cameras and equipment. Students learn to take artistic digital photos following rules of composition, light, exposure, elements of art, and principles of design which also enhances their ability to produce quality commercial work. Students' work is published in various publications. This class enables students to explore photography as a possible career and is designed to help the student acquire practical photographic skills through an interactive and hands-on educational experience.

Business Management & Administration

Principles of Business, Marketing, & Finance
Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course 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.

Business Information Management
Grade: 10
Prerequisites: Principles of Business, Marketing, & Finance Credit: 1.0
GPA: 4.0

In Business Information Management I, students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop spreadsheets, formulate a database, and make an electronic presentation using appropriate software.

Business Management
Grade: 11
Prerequisites: Business Information Management 1 Credit: 1.0
GPA: 4.0

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

Human Resources Management

Grade: 12
Prerequisites: Business Management Credit 0.5
GPA: 4.0

Human Resources Management is designed to familiarize students with the concepts related to human resource management, including legal requirements, recruitment, and employee selection methods, and employee development and evaluation. Students will also become familiar with compensation and benefits programs as well as workplace safety, employee-management relations, and the impact of global events on human resources management.

Global Business

Grade: 12
Prerequisites: Business Management Credit 0.5
GPA: 4.0

Global Business is designed for students to analyze global trade theories, international monetary systems, trade policies, politics, and laws relating to global business as well as cultural issues, logistics, and international human resource management.

Practicum in Business Management

Grade: 12
Prerequisites: Business Management Credit: 2.0
GPA: 4.0
Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or post-secondary education. Students apply technical skills to address business applications of emerging technologies.

IB DP Business Management HL

Grades: 11 & 12
Prerequisites: Business Information Management 1 Credits: 2.0
GPA: 5.0
The IB business management course is designed to develop students' knowledge and understanding of business management theories, as well as their ability to apply a range of tools and techniques. Students learn to analyze, discuss, and evaluate business activities at local, national, and international levels. The course covers a range of organizations from all sectors, as well as the socio-cultural and economic contexts in which those organizations operate. The course covers the key characteristics of business organization and environment and the business functions of human resource management, finance and accounts, marketing, and operations management. Links between the topics are central to the course. Through the exploration of six underpinning concepts (change, culture, ethics, globalization, innovation, and strategy), the course allows students to develop a holistic understanding of today's complex and dynamic business environment. The conceptual learning is firmly anchored in business management theories, tools and techniques and placed in the context of real-world examples and case studies. The course encourages the appreciation of ethical concerns at both a local and global level. It aims to develop relevant and transferable skills, including the ability to: think critically; make ethically sound and well-informed decisions; appreciate the pace, nature, and significance of change; think strategically; and undertake long term planning, analysis, and evaluation. The course also develops subject-specific skills, such as financial analysis.

Health Science

Principles of Exercise Science and Wellness

Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

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 I

Grade: 10
Prerequisites: Principles of Exercise Science and Wellness Credit: 1.0
GPA: 4.0

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 body and provide opportunities for an industry-certified exam such as a certified personal trainer.

Kinesiology II

Grade: 11
Prerequisites: Kinesiology I Credit: 1.0
GPA: 4.0

The Kinesiology II course is designed to provide students an advanced level of knowledge, skills, and understanding of body composition and the effect on health, nutritional needs of physically active individuals, qualitative biomechanics, application of therapeutic modalities, appropriate rehabilitation services, and aerobic training intensity programs. The course is designed to allow students to advance their understanding of professional standards, employability skills, and ethical and legal standards. Throughout this course, students explore the healthcare/exercise business model and gain an understanding of therapeutic sports psychology. Students develop proper aerobic fitness programs and rehabilitation programs. Kinesiology II prepares students for an industry certification exam such as Certified Personal Trainer.

Practicum

Grade: 12
Prerequisites: Kinesiology II Credit: 2.0
GPA: 4.0

The Practicum in Health Science course is designed to give students practical application of previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience.

Hospitality and Tourism

Culinary Arts

Principles of Hospitality and Tourism

Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

This course introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

Introduction to Culinary Arts

Grade: 10
Prerequisites: Principles of Hospitality and Tourism Credit: 1.0
GPA: 4.0

This course emphasizes the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Introduction to Culinary Arts will provide insight into food production skills, various levels of industry management, and hospitality skills. This course is offered as a classroom and laboratory-based course.

Culinary Arts 2

Grade: 11
Prerequisites: Introduction to Culinary Arts Credit: 2.0
GPA: 4.0

Culinary Arts begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. This course is offered as a laboratory-based course.

Food Science

Grade: 12
Prerequisites: Culinary Arts Credit: 1.0
GPA: 4.0

In Food Science, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Food Science is the study of the nature of foods, the causes of deterioration in food products, the principles underlying food processing, and the improvement of foods for the consuming public.

Practicum in Culinary Arts

Grade: 12
Prerequisites: Culinary Arts Credit: 2.0
GPA: 4.0

Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing culinary art-based workplace.

Hotel Management

Principles of Hospitality and Tourism

Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

This course introduces students to an industry that encompasses lodging, travel and tourism, recreation, amusements, attractions, and food/beverage operations. Students learn knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success in that industry.

Hotel Management

Grade: 10
Prerequisites: Principles of Hospitality and Tourism Credit: 1.0
GPA: 4.0

Hotel Management focuses on the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This in-depth study of the lodging industry includes departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. This course will focus on, but not be limited to, professional communication, leadership, management, human resources, technology, and accounting.

Travel & Tourism Management

Grade: 11
Prerequisites: Hotel Management Credit: 1.0
GPA: 4.0

Travel and Tourism Management incorporates management principles and procedures of the travel and tourism industry as well as destination geography, airlines, international travel, cruising, travel by rail, lodging, recreation, amusements, attractions, and resorts. Employment qualifications and opportunities are also included in this course.

Hospitality Services
Grade: 12
Prerequisites: Travel and Tourism Management Credit: 2.0
GPA: 4.0

Hospitality Services provides students with the academic and technical preparation to pursue high-demand and high-skill careers in hospitality related industries. The knowledge and skills are acquired within a sequential, standards-based program that integrates hands-on and project-based instruction. Standards included in the Hospitality Services course are designed to prepare students for nationally recognized industry certifications, post-secondary education, and entry-level careers. In addition, Hospitality Services is designed so that performance standards meet employer expectations, enhancing the employability of students. Instruction may be delivered through laboratory training or through internships, mentoring, or job shadowing.

Human Services

Principles of Human Services
Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

Human Growth and Development
Grade: 10
Prerequisites: Principles of Human Services Credit: 1.0
GPA: 4.0

Human Growth and Development is an examination of human development across the lifespan with emphasis on research, theoretical perspectives, and common physical, cognitive, emotional, and social developmental milestones. The course covers material that is generally taught in a postsecondary, one-semester introductory course in developmental psychology or human development.

Child Development
Grade: 11
Prerequisites: Human Growth and Development Credit: 1.0
GPA: 4.0

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.

Family & Community Services
Grade:12
Prerequisites: Child Development Credit: 1.0
GPA: 4.0

Family and Community Services is a laboratory-based course designed to involve students in realistic and meaningful community-based activities through direct service or service-learning experiences. Students are provided opportunities to interact with and provide services to individuals, families, and the community through community or volunteer services. Emphasis is placed on developing and enhancing organizational and leadership skills and characteristics.

Practicum in Human Services

Grade: 12
Prerequisites: Child Development Credit: 2.0
GPA: 4.0

Practicum in Human Services provides background knowledge and occupation-specific training that focuses on the development of consumer services, early childhood development and services, counseling and mental health services, and family and community-services careers. Content for Practicum in Human Services is designed to meet the occupational preparation needs and interests of students and should be based upon the knowledge and skills selected from two or more courses in a coherent sequence in the human services cluster. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

STEM

Engineering

Principles of Applied Engineering

Grade: 9 Prerequisites: None Credit: 1.0
GPA: 4.0

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will understand the various fields of engineering and will be able to make informed career decisions. Further, students will have worked on a design team to develop a product or system. Students will use multiple software applications to prepare and present course assignments.

Engineering Design and Presentation 1

Grade: 10
Prerequisites: Principles of Applied Engineering Credit: 1.0
GPA: 4.0

Engineering Design and Presentation I is a continuation of knowledge and skills learned in Principles of Applied Engineering. Students enrolled in this course will demonstrate knowledge and skills of 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 will transfer advanced academic skills to component designs. Additionally, students explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in these areas. Students are introduced to orthographic projection, isometrics, and construction/manufacturing drawing techniques. Mastery of both manual drafting and CAD are essential. Assessments include technical writing, project management, architectural/industrial drawing standards, and electronic portfolios.

Engineering Science

Grade: 11
Prerequisites: Engineering Design and Presentation 1 Credit: 1.0
GPA: 4.0

Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges.

Engineering Design & Presentation 2

Grade: 12
Prerequisites: Engineering Science Credit: 2.0
GPA: 4.0

Engineering Design and Presentation II is a continuation of knowledge and skills learned in Engineering Design and Presentation I. Students enrolled in this course will demonstrate knowledge and skills of 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 will transfer advanced academic skills to component designs. Emphasis will be placed on using skills from ideation through prototyping. Intensive computer aided design of structural, electrical, and civil engineering projects are followed by comprehensive presentation pieces delivered to target audiences. Assessments include constant maintenance and improvement of the electronic portfolio, quantitative evaluation, and sustainable design practices. More than any previous course, this advanced class attempts to replicate the requirements of an engineering internship with the intent of career-readiness.

Computer Science

AP Principles of Computer Science

Grade:9 Prerequisites: None Credit: 1.0
GPA: 5.0

The CompuScholar: Digital Savvy curriculum is a one-year (two-semester) course covering required topics in most introductory "Information Technology" classes. This course has been aligned to specific course standards in several states. Students should have minimal computer usage skills (e.g., keyboarding, mouse, and operating system navigation) prior to starting this course.

MYP PDP Computer Science

Grade: 10
Prerequisites: AP Principles of Computer Science Credit: 1.0
GPA: 5.0

The Java Programming curriculum is a one-year (two-semester) course covering topics typically found in Computer Science I or similar courses. This course has been aligned to specific course standards in several states. Other introductory programming courses are not required; students merely need to have typical computer usage skills prior to starting this course. Every chapter contains one or more hands-on programming labs where students will design or implement programs to demonstrate understanding of the lesson topics. Students will get the opportunity to work on individual and group projects and will experience all phases of a project lifecycle, including requirements, design, implementation, and testing.

IB DP Computer Science SL/HL

Grade: 11 and 12
Prerequisites: MYP PDP Computer Science Credits: 2.0
GPA: 5.0

The IB DP Computer science SL course requires an understanding of the fundamental concepts of computational thinking as well as knowledge of how computers and other digital devices operate. The course, underpinned by conceptual thinking, draws on a wide spectrum of knowledge, and enables and empowers innovation, exploration, and the acquisition of further knowledge. Students study how computer science interacts with and influences cultures, society and how individuals and societies behave, and the ethical issues involved. During the course, the students will develop computational solutions.

Fine Arts

MYP: The Arts DP/CP: Group 6: The Arts

Visual ART 1/2/3/4

Credit: 1.0
GPA: 4.0

Art 1, Sculpture 3D, Mixed Media 2D

Art courses are offered on three different levels which all share the same four basic strands-perception, creative expression/performance, historical and cultural heritage, and critical evaluation. Students rely on their perceptions of the environment, developed through increasing visual awareness and sensitivity to surroundings, memory, imagination, and life experiences, as a source for creating artworks. They express their

thoughts and ideas creatively, while challenging their imagination, fostering reflective thinking, and developing disciplined effort and problem-solving skills

Art IB DP Visual Arts HI
Grade: 12
Prerequisites: Art 2 or 3
Credits: 2.0
GPA: 5.0

Visual arts are an integral part of everyday life, permeating all levels of human creativity, expression, communication and understanding. They range from traditional forms embedded in local and wider communities, societies, and cultures, to the varied and divergent practices associated with new, emerging and contemporary forms of visual language. They may have socio-political impact as well as ritual, spiritual, decorative and functional value; they can be persuasive and subversive in some instances, enlightening and uplifting in others. We celebrate the visual arts not only in the way we create images and objects, but also in the way we appreciate, enjoy, respect and respond to the practices of artmaking by others from around the world. Theories and practices in visual arts are dynamic and ever-changing and connect many areas of knowledge and human experience through individual and collaborative exploration, creative production and critical interpretation. The IB Diploma Programme visual arts course encourages students to challenge their own creative and cultural expectations and boundaries. It is a thought-provoking course in which students develop analytical skills in problem-solving and divergent thinking, while working towards technical proficiency and confidence as art-makers. In addition to exploring and comparing visual arts from different perspectives and in different contexts, students are expected to engage in, experiment with and critically reflect upon a wide range of contemporary practices and media. The course is designed for students who want to go on to study visual arts in higher education as well as for those who are seeking lifelong enrichment through visual arts. Supporting the International Baccalaureate mission statement and learner profile, the course encourages students to actively explore the visual arts within and across a variety of local, regional, national, international, and intercultural contexts. Through inquiry, investigation, reflection and creative application, visual arts students develop an appreciation for the expressive and aesthetic diversity in the world around them, becoming critically informed makers and consumers of visual culture.

BAND 1/2/3/4
Credit 1.0
GPA: 4.0

Marching Band, Color Guard

ORCHESTRA 1/2/3/4
Credit 1.0
GPA: 4.0

There are two ensembles: Chamber Orchestra, and Philharmonic Orchestra. Chamber Orchestra is an audition-only ensemble and requires prior approval from the orchestra director. Students will have 4 academic concerts during the school year: Fall, Winter, Pre-UIL, and Spring.

Guitar Multilevel
Credit 1.0
GPA: 4.0

Provides students with the proper historical techniques and styles of the mariachi ensemble. Emphasis is placed on individual and ensemble tone production, mastery of fundamentals, and music reading. The students are reinforced with skills needed for the intricate rhythm and technique.

CHOIR 1/2/3/4
Credit 1.0
GPA: 4.0

Beginning Men's Chorus Beginning Women's Chorus
Lamar Choir welcomes singers from grades 9 through 12 who are beginning to intermediate level musicians. **No experience** is required for this course. An important thing to have is spirit and know that everyone will learn how to sing well - and have a great time doing it! Many who enroll in this ensemble move on to Madrigal Singers in subsequent years at Lamar.

Varsity Women's Chorus
We welcome singers from grades 9 through 12 who demonstrate an advanced level of musicianship through an audition process. Ladies who audition for this ensemble must have a command of vocal technique and knowledge befitting advanced level high school ensembles. This choir is an option for ladies who enjoy challenging music in an all-female environment, or for students whose academic schedule would not allow for placement in Madrigal Singers.

IB DP Music SL/HL
Grades: 11 and 12
Prerequisites: Level 1 and 2 of respective Music courses Credits: 2.0
GPA: 5.0

Involving aspects of the composition, performance and critical analysis of music, the course exposes students to forms, styles and functions of music from a wide range of historical and socio-cultural contexts. Students create, participate in, and reflect upon music from their own background and those of others. They develop practical and communicative skills which provide them with the opportunity to engage in music for further study, as well as for lifetime enjoyment.

Both standard level (SL) and higher level (HL) music students are required to study musical perception.

DANCE

Intro Dance/Dance 1
GPA: 4.0

The objective of this course is to improve dance technique and performance appropriate to the beginning level. Students will learn dance in the style of ballet, jazz, hip hop and modern. Students will study elements of anatomy, kinesiology, choreography and improvisation, as well as a strong emphasis in basic dance history and dance terminology. The nature of the course offers the cultivation of such behavior as self-discipline, creativity, working with others, leadership, fellowship, responsibility, self-pride, and appearance. During the year, students of all levels of dance will also be required to become a part of the spring semester performance.

Rangerettes Drill Team
GPA: 4.0

A Rangerette shall be loyal, have high morals and standards, set good examples in and out of school, and develop self-discipline and confidence. Being a member of the team is an honor. Hard work and discipline are major components of the program. A Rangerette's commitment is to both academics and the Rangerettes organization. Prospective members of the Rangerettes Drill Team shall be selected through an audition process. The term of membership is one calendar year, beginning when the name is posted as a team member and continuing until the tryouts for the following year's team. Applicants can be in grades 8th through 11th during the year of tryouts. Applicants must meet all criteria as described in the tryout application. Applications will be available one month prior to tryouts.

IB DP DANCE SL/HL
Grades: 11 and 12
Credits: 2.0
GPA: 5.0

Students create, participate in, and reflect upon dance forms and styles from a range of cultures and traditions, both familiar and unfamiliar. The students learn to express themselves through movement. The course focuses on the composition, performance, and analysis of dance, or "expressive movement," which is practiced amongst peoples of various backgrounds, and for a variety of purposes, throughout the world.

Lamar Dance Theatre (LDT)

Lamar High School's Dance Company is split into LDT Modern & LDT Hip Hop. LDT Modern focuses on the roots of Modern dance as well as incorporates other forms and styles of dance. This is an audition only class. LDT Hip Hop focuses on incorporating new and old styles of Hip Hop to further advance their technique. Students must try out in the spring to be considered for LDT for the following school year.

Advanced Hip Hop
Credit: 1.0

GPA: 4.0

An advanced hip hop class that focuses on developing all styles of hip hop. This class is a training class for students who want to become members of LDT Hip Hop. The class also focuses on the history of hip hop dance. This is an audition only class.

Advanced Modern
Credit: 1.0
GPA: 4.0

An advanced class that focuses on modern and jazz technique. The students will learn a series of modern and jazz techniques as well as its historical context. This is an audition only class.

PIANO 1/2/3/4
Credit: 1.0
GPA: 4.0
Provides students with the proper fundamentals and technique for piano. Emphasis is placed on individual tone production, fundamentals, technique, and music reading. In advanced levels, the students are reinforced with the proper repertoire, sequencing, fundamentals, and technique for piano to extend their playing ability.

Debate 1/2/3/4
Credit: 1.0
GPA: 4.0 for Debate 1, 5.0 for Debate 2-4

Controversial issues arise in aspects of personal, social, public, and professional life in modern society. Debate and argumentation are widely used to make decisions and reduce conflict. Students who develop skills in research, argumentation and debate become interested in current issues, develop sound critical thinking, and sharpen communication skills. They acquire life-long skills for intelligently approaching controversial issues.

THEATRE

Theatre 1
Credit 1.0
GPA: 4.0

Students will learn basic theatre principles in stage movement, voice, diction, pantomime, improvisation, and creative dramatics. They will discover the history and vocabulary of the
theatre world. They will practice techniques to overcome stage-fright and develop self-confidence.
Students will develop acting skills for in-class performances and video projects. Write and
perform original monologues, and act in established scenes. In this course students will develop oral interpretation skills, study the works of selected major playwrights. Part of the requirements include students attending live performances and analyzing the show based on a given criteria. Students are also exposed to all aspects of production.

Technical Theatre 1
Credit: 1.0
GPA: 4.0

Technical Theatre 1 is an introductory course which establishes the basic skills necessary to create lighting, set, and sound for the theatre with an emphasis on best practices in construction and design. Students will explore how design and technical aspects of the theatre serve to create theatrical productions by investigating the design, rehearsal, and construction processes through hands-on, in class projects that place them in the role of theatre technicians. The course will conclude by placing the students in the role of theatrical designer, where they use the practical and aesthetic skills that they have developed throughout to create a hands-on theatrical design of their own, preparing them for upper-level Technical Theatre courses.

Theatre 2
Credit: 1.0
GPA: 4.0

This course is a continuation of the materials presented in Theatre Arts 1. There is an additional emphasis on acting styles and techniques

covering major movements in the development of acting from the Greeks to the present. Students will engage in more intensive scene work and character development and will be expected to perform at a higher level of acting expertise.
Students will also develop creativity skills through the use of improvisations, writing and performing original material. Concepts of abstract ideas are visualized through writing and directing. Musical theatre, dance, radio, television, and film are also discussed. Students are also expected to attend live performances and analyze the show based on given criteria.

Technical Theatre 2/3/4: Stagecraft Prerequisite:
Technical Theater 1 Grades: 10, 11, 12
Credit: 1.0
GPA: 4.0

A rigorous, design-focused course consisting of classroom-based design projects in which students explore lighting, set, and sound design through collaborative assignments that lead the students through the
research-design process; and hands-on, practical experience as technical crew for the Loading Dock Productions season of plays.

Technical Theatre 2/3/4: Costume Construction Prerequisite:
Technical Theater 1
Grades: 10, 11, 12
Credit: 1.0
GPA: 4.0

This course explores the theory and application of theatrical costume construction. Students will learn techniques and procedures to properly use sewing related equipment, analyze how to use patterns, and evaluate various stitching techniques in garment creation. Students will also learn elements of costume design. Students in this class will be creating the costumes for all the Productions.

Mainstage Theatre Production 1/2/3/4 Audition Only
Grades 9, 10, 11, 12
Credit: 1.0
GPA: 4.0

A production-oriented course which takes students through the process of creating a piece from conception through production. In class, students take on roles as actors and theatre technicians to produce full-length/one-act/musical/scenes/productions as part of the
LOP season of plays. Students will improve their technique through script analysis, ensemble work, and stagecraft skills. Students are expected to attend all LOP Shows and attend other live theatrical events. Students will develop criteria to evaluate their work and the work of their classmates, as well as professional artists.

UIL Theatre Production 1/2/3/4 Audition Only
Grades: 9, 10, 11, 12
Credit: 1.0
GPA: 4.0
A production-oriented course which takes students through the process of creating a piece from conception through production. In class, students take on roles as actors and theatre technicians to produce full-length/one- act/musical/scenes/productions as part of the
LOP season of plays. Students will improve their technique through script analysis, ensemble work, and stagecraft skills. Students are expected to participate in all UIL work.

IB DP Theatre SL/HL Grades 11 & 12
Credits: 2.0
GPA: 5.0

This course is an exploration of the history of theatre through cultural, historical, and theoretical lenses with a focus on theatre as a performative art form. Through performance-based activities, students will
be asked to examine theatre through the cultural and historical lenses in which it was created, and then to recontextualize that theatre through vastly different viewpoints, emphasizing cultural and historical connections and promoting its internationality. The course culminates with a collaborative performance, incorporating a variety of theatre theory examined in the class, which connects with issues within the Lamar and Houston Community.

IB DP Film HL Grades 11 & 12
Credits: 2.0
GPA: 5.0

Film is a powerful and stimulating art form and practice. The DP film course aims to develop students as proficient interpreters and makers of film texts. Through the study and analysis of film texts, and through practical exercises in film production, the film course develops students' critical abilities and their appreciation of artistic, cultural, historical and global perspectives in film. Students examine film concepts, theories, practices and ideas from multiple perspectives, challenging their own viewpoints and biases to understand and value those of others. DP film students experiment with film and multimedia technology, acquiring the skills and creative competencies required to successfully communicate through the language of the medium. They develop an artistic voice and learn how to express personal perspectives through film. The film course emphasizes the importance of working collaboratively. It focuses on the international and intercultural dynamic that triggers and sustains contemporary film, while fostering in students an appreciation of the development of film across time, space and culture. DP film students are challenged to understand alternative views, to respect and appreciate the diverse cultures that exist within film, and to have open and critical minds. At the core of the DP film course lies the need for creative exploration and innovation. Students are challenged to acquire and develop critical thinking, reflective analysis and the imaginative synthesis that is achieved through practical engagement in the art, craft and study of film.

Physical Education

MYP: Physical Health and Education

P.E. courses are offered at all grade levels. Students who participate in an on campus athletic program, Drill Team, Band, or Cheer are not required to take an additional P.E. course as long as their P.E. credit is awarded. Students may choose to take additional P.E. courses, however, only 1 credit is required to graduate.

Foundations of Physical Fitness

Credit: 1.0
GPA: 4.0
Knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically active lifestyle.

Junior Reserve Officer Training Corps

JROTC 1/2/3/4
Credit: 1.0
GPA: 4.0
JROTC is a "world-class", student-centered, academic leadership program which familiarizes students with the concept of leadership and discusses rights, responsibilities, privileges, and freedoms that underlie good citizenship. Students begin developing appreciation of teamwork through instruction in drill and ceremonies and wearing of the uniform. Courses improve leadership ability, communications, decision making, goal setting through study and practical leadership experience.