

# **TULOSO-MIDWAY HIGH SCHOOL**



## **COURSE DESCRIPTION GUIDE 2023-2024**

# WELCOME TO TULOSO-MIDWAY ISD

Dear Students:

We are pleased to have the opportunity to work with you as you choose your courses for next year.

Careful consideration should be given to course selections to ensure an appropriate and effective class schedule. Attention must be given to graduation plans so that specific requirements are met regarding future plans for college, technical school, and personal goals.

This booklet is designed to inform and guide you in establishing your class schedule. Actions by the local or state school board, TEA, or the state legislature, may make course information in this booklet obsolete or inaccurate. The staff at Tuloso-Midway High School will explain information to you before registration. Should you need additional assistance, you may call our office at 903-6780 or visit the high school's Counselors' Corner page at [www.tmisd.us](http://www.tmisd.us).

Sincerely,

Alcario G. Alvarado  
*Principal*

*Tuloso-Midway ISD does not discriminate on the basis of race, color, national origin, sex, handicap, or limited English proficiency.*

*Tuloso-Midway High School Course Description Guide 2023-24*

## **CAMPUS ADMINISTRATION**

**Alcario Alvarado** Principal

**Lamar Cardenas** Assistant Principal for Curriculum & Instruction

**Stacy Lucas** Assistant Principal for Student Support Services

**Priscilla Vega** Assistant Principal for Discipline, Attendance, & Campus Safety

**Enrique Ruiz Jr.** Coordinator of Advanced Academics

## **COUNSELORS**

**Kavita Bhakta** Counselor for Mental Health

**Jordan Garza** Counselor for Programming and Student Outreach

**Annette Hinojosa** Counselor for Academics

**Pearlie Martinez** Counselor for College and Career Readiness

## **CLERICAL STAFF**

**Janet Armstrong** Administrative Assistant

**Cynthia Benavidez** Attendance Clerk

**Lora Casarez** Administrative Assistant

**JoAnn Deluna** Concierge

**Carol Maher** High School/CTE Operations Manager

**Marissa Ramirez** Principal's Secretary/Office Manager

**Jennifer Stark** PEIMS Clerk

**Rosalinda Zavala** Registrar

## **CAREER & TECHNICAL EDUCATION**

**Mahogany Garza** District CTE & CCMR Coordinator

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# **COUNSELING POLICIES**

## **Schedule Change Requests**

Online schedule changes can be made during summer and until the Monday of the 2nd week of school. After the final submission deadline, schedule changes are through administration approval only.

Counselors will process schedule changes within 2 weeks after final submission. Students will be notified of their new schedule in paper form and can be found on the Home Access Center (HAC).

## **Graduation Plan Change Requirement**

Students who are wanting to change their graduation plan can only do so during their junior year. Parents and students must attend a formal meeting to fulfill all TEA requirements. The student must understand that there is a possibility of graduating under the foundation graduation plan, which could affect post-secondary enrollment.



## WEIGHTED COURSES

UIL Exempt for “No Pass No Play” *	NOT EXEMPT (Ineligible)
Advanced Animal Science (Science)	Advanced Floral Design
Algebra 1 & 2 Honors	Art Honors: Studio Art-Drawing Portfolio
Anatomy & Physiology Honors	Athletics Honors ( <i>Advanced Measures Required</i> )
Biology 1 Honors	Band Honors ( <i>Advanced Measures Required</i> )
Chemistry Honors	Cheerleading Honor ( <i>Advanced Measures Required</i> )
Economics Honors	Debate 2 & 3 Honors
English 1, 2, & 3 Honors	Drill Team Honors ( <i>Advanced Measures Required</i> )
Engineering Design & Problem Solving ( <i>If Taken As 4th Science</i> )	Humanities 1 (Academic Decathlon 1)
Geometry Honors	Independent Study in English 1-3 (Academic Decathlon 2-4)
Physics Honors	Independent Study in Speech (Debate 4 Honors)
Precalculus Honors	Oral Interpretation 2-4 Honors
Scientific Research & Design	Practicum of Agriculture, Food, & Natural Resources - Animal Science
W. Geography Honors	Practicum of Agriculture, Food, & Natural Resources - Plant Science
W. History Honors	Practicum of Audio/Visual Production
All TAMUK & CBC Dual Enrollment <b>Core</b> Courses	Practicum of Architectural Design
	Practicum of Entrepreneurship
	Practicum of Health Science - Health Care Technician
	Practicum of Health Science - Dental Science
	Practicum in Graphic Design and Illustration
	Practicum of STEM
	Robotics 2
	All TAMUK & CBC Dual Enrollment <b>Non-Core</b> Courses



**§74.30. Identification of Honors Courses.\***

(a) The following are identified as honors classes as referred to in the Texas Education Code, §33.081(d)(1), concerning extracurricular activities:

- (1) all College Board Advanced Placement courses and International Baccalaureate courses in all disciplines;
- (2) English language arts: high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)";
- (3) Languages other than English: high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)"; American Sign Language, Level IV; American Sign Language, Advanced Independent Study; Level IV, Intermediate Mid to Intermediate High Proficiency; Level V, Intermediate High to Advanced Mid Proficiency; Level VI, Advanced Mid to Advanced High Proficiency; Level VII, Advanced High to Superior Proficiency; Seminar in Languages Other Than English, Advanced; Classical Languages, Level IV, Novice Mid to Advanced Mid Proficiency; Classical Languages, Levels V-VII, Novice High to Superior Low Proficiency; and Seminar in Classical Languages, Advanced;
- (4) Mathematics: high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)" and Precalculus;
- (5) Science: high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)"; and
- (6) Social studies: Social Studies Advanced Studies, Economics Advanced Studies, and high school/college concurrent enrollment classes that are included in the "Lower-Division Academic Course Guide Manual (Approved Courses)."

(b) Districts may identify additional honors courses in the subject areas of English language arts, mathematics, science, social studies, or a language other than English for the purpose of this section, but must identify such courses prior to the semester in which any exemptions related to extracurricular activities occur.

(c) Districts are neither required to nor restricted from considering courses as honors for the purpose of grade point average calculation.

Statutory Authority: The provisions of this §74.30 issued under the Texas Education Code, §33.081.

Source: The provisions of this §74.30 amended to be effective October 28, 2019, 44 TexReg 6368.

# PERFORMANCE ACKNOWLEDGEMENTS

A student entering Grade 9 in the 2014-2015 school year and thereafter shall enroll in the courses necessary to complete the curriculum requirements for the Foundation High School Program (22 credits) specified in §74.12 of this title and the curriculum requirements for at least one endorsement (26 credits) specified in §74.13 of this title (relating to Endorsements).

A student may graduate under the Foundation High School Program without earning an endorsement if, after the student's sophomore year: (1) the student and the student's parent or person standing in parental relation to the student are advised by a school counselor of the specific benefits of graduating from high school with one or more endorsements; and (2) the student's parent or person standing in parental relation to the student files with a school counselor written permission, on a form adopted by the Texas Education Agency (TEA), allowing the student to graduate under the Foundation High School Program without earning an endorsement.

A student may earn a distinguished level of achievement by successfully completing the curriculum requirements for the Foundation High School Program and the curriculum requirements for at least one endorsement required by the Texas Education Code (TEC), §28.025(b-15), including four credits in science and four credits in mathematics to include Algebra II. Eligible for Top 10% Automatic Admission.

A student may earn a performance acknowledgement on their diploma and transcript for outstanding performance on any of the following: (1) Completing at least 12 hours of college academic courses including those taken for dual credit and advanced technical credit. (2) In bilingualism and biliteracy (3) on a college AP or IB exam (4) on the PSAT, ACT-ASPIRE, SAT or ACT (5) for earning a nationally or internationally recognized industry certification.

## Tuloso-Midway ISD Foundation High School Program (22 Credits)

<b>English</b> (4 credits)	•English 1	•English 2	•English 3	• Advanced English
<b>Mathematics</b> (3 credits)	•Algebra 1	•Geometry	•Advanced Math	
<b>Science</b> (3 credits)	•Biology	•Chemistry	•Advanced Science	
<b>Social Studies</b> (3 credits)	•World Geography	•World History	•US History	•US Gov't & Economics
<b>Language Other Than English</b> (2 credits)	•2 credits of the same language			
<b>Physical Education</b> (1 credit)	<b>Fine Arts</b> (1 credit)	<b>Technology</b> (1 credit)	<b>Electives</b> (5 credits)	

A student may graduate under the foundation HS program without earning an endorsement if after their 10th grade year the student and parent are advised by a school counselor regarding the benefits of graduating with one or more endorsements and **the parent** files written acknowledgement with a school counselor.

## Foundation + Endorsement (26 credits)

Foundation High School Program plus 4 credits within a coherent sequence, STEM, Business & Industry, Public Service, Arts & Humanities, or Multidisciplinary.

## Performance Acknowledgments

### Dual Credit/Dual Enrollment

- Successfully complete at least 12 hours of college academic courses with a grade of the equivalent of 3.0 or higher on a scale of 4.0
- Successfully complete an associate degree while in high school

### Bilingualism and Biliteracy

A student may earn a performance acknowledgment in bilingualism and biliteracy by demonstrating proficiency in accordance with local school district grading policy in two or more languages by:

- (1) completing all English language arts requirements and maintaining a minimum GPA of 80 on a scale of 100;
  - (2) satisfying one of the following:
- completion of a minimum of three credits in the same language in a language other than English with a minimum GPA of 80 on a scale of 100; or
  - demonstrated proficiency in the Texas Essential Knowledge and Skills for Level IV or higher in a language other than English with a minimum GPA of 80 on a scale of 100; or
  - completion of at least three credits in foundation subject area courses in a language other than English with a minimum GPA of 80 on a scale of 100; or
  - demonstrated proficiency in one or more languages other than English through one of the following methods:
  - a score of 3 or higher on a College Board AP exam for a language other than English; or
  - a score of 4 or higher on an IB exam for a higher level languages other than English course; or performance on a national assessment of language proficiency in a language other than English of at least Intermediate High or its equivalent
  - In addition to meeting the requirements to earn a performance acknowledgment in bilingualism and biliteracy, an English language learner must also have:
    - (A) participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; and
    - (B) scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS)

### College AP/IB Exams

- Earn a score of 3 or above on a College Board advanced placement examination
- Earn a score of 4 or above on an International Baccalaureate examination

### College Entrance Exams

- Earn a score on the PSAT/NMSQT that qualifies the student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation
- Achieve the college readiness benchmark score on at least two of the four subject tests on the ACT-ASPIRE exam
- 2018-2019 and later (applies to any SAT test taken after August 2018): The student's total evidence-based reading & writing and math scores is 1310 or higher.
- Earn a composite score on the ACT exam of 28 (excluding the writing subscore)

### Industry Certification

A student may earn a performance acknowledgement for earning a nationally or internationally recognized business or industry certification or license with:

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

# WARPATH ACADEMY

Tuloso-Midway's Warpath Academy is designed to serve students who are interested in pursuing post-secondary credentials, earning transferable college credit hours, participating in work-based learning experiences, and accelerating their high school career.

## Programs Offered

- Architecture/ Construction
- Automotive
- Cosmetology
- Engineering
- Forensic Science
- General Studies
- Health Science
- Industrial Mechanics
- Law Enforcement
- Welding

## Transferable Credits

The 42-core credit hours offered through the Academy are transferable to any Texas public college or university. By taking these courses at the Academy, students are dramatically decreasing the time and expense spent at their decided college or university without worrying if the courses will transfer.

## Student Choice

The Academy offers AM and PM schedules for classes at Texas A&M University - Kingsville and Coastal Bend College in order to accommodate all students who wish to be a part of the Academy, such as athletes, fine arts, and CTE students, to name a few.

## Enrollment & Admission

The Tuloso-Midway Warpath Academy shall identify, recruit, and enroll all students no matter their subpopulation or proficiency level. Enrollment decisions shall not be based on state assessment scores, discipline history, teacher recommendation, parent or student essays, minimum grade point average (GPA), or other criteria that create barriers for student enrollment.

## Continuous Enrollment

Though there are not requirements to select a Warpath Academy program, in order to take the required college course work tied to each program of study, there could be a TSI requirement on certain courses. If a student is not TSI ready when they run into this barrier, they must take and pass the required TSI subject prior to being allowed to continue their program. This could mean taking a semester off or removal from the program, depending on stage of barrier.

For more information, please visit the Warpath Academy website at

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# COASTAL BEND COLLEGE

In partnership with Tulosso-Midway Independent School District (TMISD), Coastal Bend College is excited to offer vocational, technical, and academic courses for certification or associate degrees to high school students through the dual credit education program. Dual Credit is defined as a student receiving high school credit toward a high school diploma and college credit toward an Associate Degree or a Workforce certificate.

## Goals

1. The College District will provide equitable opportunities for lifelong learning and training needs by empowering students through engaging quality instruction, enhancing supportive learning communities; and providing comprehensive student- centered services and programs to ensure that students reach their aspirations.
2. The College District will identify and develop focused initiatives and activities supporting cultural, workforce, and economic development to improve quality of life.
3. The College District will effectively and efficiently use resources to maximize student, community, employee, and fiscal efficacy

## Dual Credit Courses

The CBC Dual Credit program is committed to offering high school students a comprehensive post-secondary educational experience that provides a foundation for continued postsecondary academic success and/or the necessary skills needed for today's workforce industries. Students gain the necessary skills needed to be successful in post-secondary education while in high school.

**Workforce Pathway:** Dual Credit students can chose to enroll in one of the CBC workforce programs while in high school (see below). Most of the courses pair well with the CTE offered at the high school. This is a great way to begin taking the courses you will need for the Associate of Applied Science in your chosen career. The first step is to complete the Level I Fundamentals Certificate.

**Academic Pathway:** Dual Credit students may earn high school credit toward their high school diploma and college credit toward an Associate degree. Liberal Arts and Science degrees at CBC are designed to transfer to a Texas four-year university of student's choice. We always encourage students to meet with their high school counselor and Dual Credit Specialist on a regular basis to make sure you are taking the appropriate courses for "dual credit".

For more information regarding Coastal Bend College courses and student requirements, please visit the Coastal Bend College Dual Credit website as <http://www.coastalbend.edu/dualenrollment/>

[Coastal Bend College Course Catalog and Student Handbook](#)

**Adding a Course:** To add a course at any campus/site, students can log into their Cougar Den account and complete the Add/Drop Form. Any additional charges are then paid at the Business Office. Courses may be added no later than the last date listed to do so in the academic calendar. Students must make up any work missed due to late course additions.

**Dropping a Course:** To drop a course at any campus/site, students need to log into their Cougar Den account and complete an Add/Drop Form. Any course needing to be dropped must be done in a timely manner within the drop date period. A “W” will be placed on the permanent record. Any requests made after the deadline date will not be accepted and the student will be given the letter grade earned for the course.

## Transcripts

An official Coastal Bend College transcript may be requested in person at the Admissions/Registrar’s Office in Beeville, or at the Alice, Kingsville, or Pleasanton offices. Note: official transcripts are only printed at the Beeville site.

A request may also be submitted by completing the Transcript Request form available online at [www.coastalbend.edu/Admissions\\_Forms/](http://www.coastalbend.edu/Admissions_Forms/).

Transcripts are usually ready to be picked up or mailed within three to five business days after the request is received at the Admissions/Registrar’s Office in Beeville.

For an immediate printed copy of your (non-official) transcript, please use CBC’s online service. This service is accessible from any personal computer by going to CBC’s website: [www.coastalbend.edu](http://www.coastalbend.edu) and clicking on “Cougar Den” in the upper right hand corner. If the student comes to the Beeville site, they may pick up the transcript at the Admissions/Registrar’s Office or may submit a signed statement to authorize a third party (who must present proper ID) to pick it up within two to five business days after the request is received.

## COASTAL BEND COLLEGE DUAL CREDIT COURSE CROSSWALK

<u>Course Number &amp; Title</u>	<u>Prerequisite Requirement</u>	<u>College Semester Credit Hours (SCH)</u>	<u>TMISD Course/PEIMS Code*</u>	<u>High School Credit</u>
ARCE 1303 (Architectural Materials and Methods)	NONE	3 SCH	Practicum in Science, Technology, Engineering, and Mathematics (First Time Taken) C/ 13037405	1
ARTS 1301 (Art Appreciation)	NONE	3 SCH	Art I/ 3500100	1
AUMT 1301 (Introduction and Theory of Automotive Technology)	NONE	3 SCH	Principles of Transportation Systems/ 13039250	1
AUMT 1306 (Automotive Engine Removal and Installation)	NONE	3 SCH	Automotive Technology II Lab A/13039600	1
AUMT 1307 (Automotive Electrical Systems)	NONE	3 SCH	Practicum in Transportation Systems (First Time Taken) A/ 13040455	1
AUMT 1310 (Automotive Brake Systems)	NONE	3 SCH	Practicum in Transportation Systems (First Time Taken) B/ 13040455	1
AUMT 1316 (Automotive Suspension and Steering Systems)	NONE	3 SCH	Practicum in Transportation Systems (First Time Taken) C/ 13040455	1
AUMT 1319 (Automotive Engine Repair)	NONE	3 SCH	Automotive Technology II Lab B/13039600	1
AUMT 1345 (Automotive Climate Control Systems)	NONE	3 SCH	Practicum in Transportation Systems (Second Time Taken) A/ 13040465	1
AUMT 2313 (Automotive Drive Train and Axles)	NONE	3 SCH	Practicum in Transportation Systems (Second Time Taken) B/ 13040465	1
AUMT 2317 (Automotive Engine Performance Analysis 1)	NONE	3 SCH	Automotive Technology I: Maintenance and Light Repair A/ 13039600	1
AUMT 2321 (Automotive Engine Diagnosis and Repair)	NONE	3 SCH	Energy and Power of Transportation Systems / 13039300	1
AUMT 2325 (Automotive Automatic Transmission and Transaxle)	NONE	3 SCH	Practicum in Transportation Systems (Second Time Taken) C/ 13040465	1
AUMT 2328 (Automotive Service)	NONE	3 SCH	Automotive Basics/ 13039550	1
AUMT 2334 (Automotive Engine Performance Analysis 2)	NONE	3 SCH	Automotive Technology I: Maintenance and Light Repair B/ 13039600	1
BCIS 1305 (Business Computer Applications)	NONE	3 SCH	Principles of Information Technology/ 13027200	1
BIOL 1306/1106 (General Biology I)	NONE	4 SCH	Specialized Topics in Science (First Time Taken)/ 3060310	1
CJLE 1325 (Criminal Justice Survey)	NONE	3 SCH	Practicum in Law, Public Safety, Corrections, and Security (First Time Taken) A / 13030105	1
CJLE 1333 (Traffic Law Investigations)	NONE	3 SCH	Practicum in Law, Public Safety, Corrections, and Security (First Time Taken) B / 13030105	1
CJLE 2237 (Advanced Firearms)	NONE	3 SCH	Practicum in Law, Public Safety, Corrections, and Security (First Time Taken) C/ 13030105	1
CJLE 2247 (Tactical Skills for Police)	NONE	3 SCH	Practicum in Law, Public Safety, Corrections, and Security (Second Time Taken) A/ 13030115	1
CJLE 2420 (Texas Police Officer Procedures)	NONE	4 SCH	Law Enforcement 2 / 13029400	1
CJLE 2445 (Vice and Narcotics Investigations)	NONE	4 SCH	Federal Law Enforcement and Protective Services/ 13029800	1
CJSA 1308 (Criminalistics I)	NONE	3 SCH	Political Science II/ 13018400	1
CJSA 1313 (Court Systems and Practices)	NONE	3 SCH	Court Systems and Practices/ 13029600	1



CJSA 1317 (Juvenile Justice System)	NONE	3 SCH	Counseling and Mental Health/ 13024600	1
CJSA 1322 (Introduction to Criminal Justice)	NONE	3 SCH	Principles of Law Enforcement / 13029200	1
CJSA 1327 (Fundamentals of Criminal Law)	NONE	3 SCH	Political Science I/ 13018300	1
CJSA 1342 (Criminal Investigations)	NONE	3 SCH	Criminal Investigations / 13029550	1
CJSA 1359 (Police Systems and Practices)	NONE	3 SCH	Law Enforcement 1/ 13029300	1
CJSA 1400 (Death Investigation I)	NONE	4 SCH	Practicum in Law, Public Safety, Corrections, and Security (Second Time Taken) B/ 13030115	1
CJSA 1401 (Death Investigation II)	CJSA 1400	4 SCH	Practicum in Law, Public Safety, Corrections, and Security (Second Time Taken) C/ 13030115	1
CJSA 2300 (Legal Aspects of Law Enforcement)	NONE	3 SCH	Federal Law Enforcement and Protective Services / 13029800	1
CJSA 2323 (Criminalistics II)	CJSA 1308	3 SCH	Forensic Science/ 13029500	1
CJSA 2332 (Criminalistics III)	CJSA 1308 & CJSA 2323	3 SCH	Forensic Psychology/ N1303012	1
CJSA 2364 (Practicum (or Field Experience) – Criminal Justice/Safety Studies)	NONE	3 SCH	Practicum in Law, Public Safety, Corrections, and Security (Second Time Taken) B/ 13030115	1
CSME 1330 (Orientation to Nail Technology)	NONE	3 SCH	Nail Care, Enhancements and Spa Services/ N1302531	1
CSME 1401 (Orientation to Cosmetology)	NONE	4 SCH	Introduction to Cosmetology/ 13025100	1
CSME 1405 (Fundamentals of Cosmetology)	NONE	4 SCH	Cosmetology I A/ 13025210	1
CSME 1445 (Principles of Facial and Skin Care II)	NONE	4 SCH	Cosmetology I B/ 13025210	1
CSME 1447 (Principles of Skin Care/ Facials and Related Theory)	NONE	4 SCH	Cosmetology I C/ 13025210	1
CSME 1453 (Chemical Reformation and Related Theory)	NONE	4 SCH	Cosmetology II A/ 13025310	1
CSME 1551 (Artistry of Hair, Theory, and Practice)	NONE	5 SCH	Cosmetology II B/ 13025310	1
CSME 2204 (Introduction to the Theory and Chemistry of Hair Color)	NONE	2 SCH	Principles of Cosmetology Design and Color Theory/ 13025050	1
CSME 2430 (Nail Enhancement)	NONE	4 SCH	Cosmetology II C/ 13025310	1
CSME 2441 (Preparation for the State Licensing Examination)	NONE	4 SCH	Project-Based Research/ 12701500	1
CRIJ 2313 (Correctional Systems & Practices)	NONE	3 SCH	Correctional Services/ 13029700	1
DEMR 1301 (Shop Safety and Procedures)	NONE	3 SCH	Welding I A/ 13032300	1
DFTG 1305 (Technical Drafting)	NONE	3 SCH	Introduction to Computer Aided Design and Drafting/ N1303769	1
DFTG 2317 (Descriptive Geometry)	NONE	3 SCH	Practicum in Science, Technology, Engineering, and Mathematics (First Time Taken) A/ 13037405	1
DFTG 2319 (Intermediate Computer-Aided Drafting (CAD))	NONE	3 SCH	Intermediate Computer Aided Design and Drafting/ N1303770	1
DFTG 2336 (Computer-Aided Drafting (CAD) Programming)	NONE	3 SCH	Practicum in Science, Technology, Engineering, and Mathematics (First Time Taken) B/ 13037405	1
EDUC 1300 (Learning Frameworks)	NONE	3 SCH	College Readiness And Study Skills/ 3270100	0.5

ENGL 2311 (Technical & Business Writing)	NONE	3 SCH	Independent Study In English (First Time Taken) / 3221800	1
GISC 1311 (Introduction to Geographic Information Systems (GIS))	NONE	3 SCH	Raster Based Geographic Information Systems/ N1302806	1
MATH 1332 (Contemporary Mathematics)	NONE	3 SCH	Independent Study in Mathematics (Third Time Taken)/ 3102502	1
PHIL 1301 (Intro to Philosophy)	NONE	3 SCH	Social Studies Advanced Studies (First Time Taken) / 3380001	0.5
PSYC 2301 (General Psychology)	NONE	3 SCH	Psychology/ 03350100	0.5
SPCH 1315 (Public Speaking)	NONE	3 SCH	Professional Communications / 13009900	0.5
WLDG 1307 (Introduction to Welding Using Multiple Processes)	NONE	3 SCH	Welding I B/ 13032300	1
WLDG 1313 (Introduction to Blueprint Reading for Welders)	NONE	3 SCH	Welding II A/ 13032400	1
WLDG 1430 (Introduction to Gas Metal Arc Welding (GMAW))	NONE	4 SCH	Welding II B/ 13032400	1
*High School course is subject to change. Alignment of the high school course is determined and approved by TMISD.				

# TEXAS A&M UNIVERSITY - KINGSVILLE

The Dual Enrollment Program is a collaborative partnership between the Tuloso-Midway Independent School District (TMISD) and Texas A&M University-Kingsville enabling high school students in the TMISD to pursue college credit hours while completing the requirements for high school graduation.

## Program Vision

4. Provide students with access to rigorous coursework while in high school.
5. Make higher education more accessible, affordable and attractive by bridging the divide between high school and college.
6. Prepare students for college and social expectations.
7. Facilitate the transition of motivated students to higher education.
8. Provide needed guidance, support, and remediation services for college curricula.
9. Demonstrate new ways of integrating levels of schooling to better serve the intellectual and developmental needs of young people.

For more information please visit the university's dual enrollment website, [www.tamuk.edu/dep](http://www.tamuk.edu/dep)

## Eligible Courses

Courses offered for the dual enrollment program by Texas A&M University-Kingsville are approved in the undergraduate course inventory of the University. The University agrees to offer TMISD a cadre of only freshman and sophomore (1000 and 2000) level courses to eligible students. Based on availability each semester, these courses will consist of core curriculum and foreign language dual enrollment courses only as pronounced in the approved crosswalk which can be found below. The University does not offer remedial and developmental courses for dual credit.

## Transferability & Applicability

Each institution evaluates a student's transfer credits based on its own policies. Colleges and universities have different requirements that vary by school, college, and institution. The links below can serve as a resource as to the transferability of dual credit courses. **In order to determine how dual credit courses will transfer, and if they will apply to a student's major or degree program, the student must contact the higher education institution she, or he, plans to attend.**

[Texas Common Course Numbering System](#)

[TAMUK Transfer Articulation Guide](#)

## Family Educational Rights and Privacy Act (FERPA)

The Family Educational Rights and Privacy Act (FERPA) (20 U.S.C. § 1232g; 34 CFR Part 99) is a Federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education.

FERPA gives parents certain rights with respect to their children's education records. These rights transfer to the student when he or she reaches the age of 18 or attends a school beyond the high school level. The student must submit a

FERPA Authorization Release Form indicating the individual(s) that can have access to their University academic records at the university.

Dual enrollment students can complete and submit a FERPA Authorization Release Form here

<https://www.tamuk.edu/registrar/forms.html>

## Grade Reporting

Letter grades will be securely submitted at the mid semester point by the dual enrollment office at Texas A&M University-Kingsville to TMISD's designated contacts, culminating with a letter and numerical grade at the end of the semester. Students will have access to view their midterm and final letter grades via Blue & Gold. A letter grade of D or better is considered passing at the university. Grades, with numerical values corresponding to these letters, are recorded as follows:

- **A**, 90-100
- **B**, 80-89
- **C**, 70-79
- **D**, 60-69
- **F**, below 60
- **I**, Incomplete: given to a student who is passing but has not completed a term paper, examination or other required work.
  - The instructor and the student are required to complete the university contract form for each course in which the temporary grade of I has been assigned. A copy of the contract must be submitted to the Registrar's Office by the instructor no later than the date grades are due. The grade of I will be used only to allow a student who has encountered some emergency such as illness or an accident an opportunity to complete the requirements for a course. A grade of I reverts to a grade of F one year from the close of semester/term in which the grade was originally recorded if the course requirements have not been satisfied. Grade of an "I" will be assigned by the Office of the Registrar upon receipt of the I Contract.
- **Q**, Dropped: given when a student has officially dropped or withdrawn from the university before or on the date indicated on the official university academic calendar for an automatic Q, regardless of student's standing in class.

### Repetition of a Course

If a student repeats a course that may not be taken for additional credit, it is the policy of the university to count as part of a student's cumulative grade point average only the last grade received in the course, whether passing or failing, other than a grade of Q. However, for purposes of grade point average calculation on course work for graduation, grades stand as recorded unless the same course is repeated at this university. Students can only exclude a grade **one time**. Any courses taken for the third time, cannot be excluded and will be averaged in the student's GPA.

### Repeated Grade Notation

Repeated course(s) and grade(s) are not removed from the official or unofficial transcript. The repeated grade and grade points will be removed from the cumulative grade point average only. The repeated course will be identified with the letter *E* next to the quality points on the transcript. Repeating a course after graduation will not change your graduation grade point average.

## Transcripts

Texas A&M University-Kingsville will release an official college transcript (once grades are posted) each semester for all registered dual credit students. One copy will be released to the high school and to all applicable institutions in which the District has a signed dual credit/enrollment, Early College High School, P-Tech, and/or T-STEM Memorandum of Understanding.

Dual enrollment students have access to print their unofficial transcripts through Blue & Gold and can request an official copy, for purposes outside of what is noted above, by completing the required transcript request form located at [https://www.tamuk.edu/registrar/rgad\\_resources/transcripts.html](https://www.tamuk.edu/registrar/rgad_resources/transcripts.html)

# TEXAS A&M UNIVERSITY - KINGSVILLE DUAL ENROLLMENT COURSE CROSSWALK

<u>University Course Number &amp; Title</u>	<u>University Prerequisite Requirement</u>	<u>College Semester Credit Hours (SCH)</u>	<u>TMISD Course/PEIMS Code*</u>	<u>High School Credit</u>
ARTS 1303 (Art History I)	NONE	3 SCH	Art I - 3500100	1
BIOL 1306/1106 (General Biology I)	NONE	4 SCH	Specialized Topics in Science A (First Time Taken) - 3060300	0.5
BIOL 1307/1107 (General Biology II)	BIOL 1306/1106	4 SCH	Specialized Topics in Science A (Second Time Taken) - 3060310	0.5
CHEM 1311/1111 (General Inorganic Chemistry I)	MATH 1314	4 SCH	Scientific Research and Design II A - 13037210	0.5
CHEM 1312/1112 (General Inorganic Chemistry II)	CHEM 1311/1111	4 SCH	Scientific Research and Design III A - 13037220	0.5
COMS 1315 (Bus and Professional Comm)	NONE	3 SCH	Professional Communications - 13009900	0.5
ENGL 1301 (Rhetoric and Composition)	NONE	3 SCH	English III - 3220300	1
ENGL 1302 (Rhetoric and Composition)	ENGL 1301	3 SCH	English IV - 3220400	1
GEOG 1303/1103 (Physical Geography)	NONE	4 SCH	Specialized Topics in Science B (Third Time Taken) - 3060320	0.5
HIST 1301 (American History to 1877)	NONE	3 SCH	Special Topics in Social Studies (First Time Taken) - 3380002	1
HIST 1302 (American History since 1877)	NONE	3 SCH	US History - 3340100	1
MATH 1314 (College Algebra)	2 years of high school algebra	3 SCH	Independent Study in Mathematics (First Time Taken) - 03102500	0.5
MATH 1316 (Trigonometry)	MATH 1314	3 SCH	Independent Study in Mathematics (Second Time Taken) - 3102501	0.5
MUSI 1305 (Explorations in Music History)	NONE	3 SCH	Music Studies, Music Appreciation I - 3155600	1
PHIL 1301 (Intro to Philosophy)	NONE	3 SCH	Social Studies Advanced Studies (First Time Taken) - 3380001	0.5
POLS 2301 (Government & Politics of US)	NONE	3 SCH	Government - 3330100	0.5
POLS 2302 (Government & Politics of TX)	NONE	3 SCH	Special Topics in Social Studies (Second Time Taken) - 3380022	1
PSYC 2301 (Intro to Psychology)	NONE	3 SCH	Psychology - 3350100	0.5
SOCI 1301 (Principles of Sociology)	NONE	3 SCH	Sociology - 3370100	0.5
SPAN 1313 (Elementary Spanish I)	NONE	3 SCH	Spanish III - 3440300	1
SPAN 1314 (Elementary Spanish II)	SPAN 1313	3 SCH	Spanish IV - 3440400	1
*High School course is subject to change. Alignment of the high school course is determined and approved by TMISD.				

# CORE COURSE DESCRIPTIONS

## ENGLISH

### English 1 Block

**1 semester/ 1 credit/ 2 periods**

**Grade Placement:** 9      **Course Code:** 15110

**Prerequisite:** None.

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis.

### English 1 Honors (*Weighted*)

**2 semesters/ 1 credit/ 2 period**

**Grade Placement:** 9      **Course Code:** 15111

**Prerequisite:** Students must first obtain a performance level of “Meets Grade Level” on the most recent core subject related STAAR/EOC assessment or score at “Approaches Grade Level” and have an 80 in the previous course.

This rigorous course is designed for freshmen of advanced ability. It ensures students become skilled readers and writers of a variety of texts. Classroom activities build on prior knowledge to strengthen their reading, writing, and oral language skills. Students will read and write on a daily basis. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level to better prepare students for future English courses.

### English 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10      **Course Code:** 15113

**Prerequisite:** English 1

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis.

### English 2 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10      **Course Code:** 15114

**Prerequisite:** Students must first obtain a performance level of “Meets Grade Level” on the most recent core subject related STAAR/EOC assessment or score at “Approaches Grade Level” and have an 80 in the previous course.

The English 2 Honors course is designed for students of advanced ability who have already mastered EOC skills. Honors students will master the components of style analysis of literature of fiction, essays, poetry, and short stories. Students will engage in activities that build on prior knowledge and skills in order to strengthen reading, writing, and oral language skills. The goal is to foster student responsibility for scholarship to better prepare students for continued advanced courses.

### English 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11      **Course Code:** 15116

**Prerequisite:** English 2.

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis.

### English 4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 12      **Course Code:** 15117

**Prerequisite:** English 3 or English 3 Honors.

Students will engage in activities that build on their prior knowledge and skills in order to strengthen their reading, writing, and oral language skills. Standards are cumulative--students will continue to address earlier standards as needed while they attend to standards for their grade. Students should read and write on a daily basis.

## **College Preparatory English Language Arts**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 12      **Course Code:** CPE1

**Prerequisite:** Students must obtain a performance level of "Approaches, Meets, or Masters " on the English 1 and 2 EOC assessment.

This course is designed to prepare students for college-level courses that expect students to apply critical reading strategies analyzing, and evaluating college-level texts. Students will also learn to write effective, logical essays, utilizing textual support to develop reading comprehension strategies, and make value judgments using critical thinking.

## **ENGL 1301 - Rhetoric and Composition**

**1 semester/1 credit/ 1 period**

**Texas A&M University - Kingsville (3 college credits)**

**Grade Placement:** 9-11      **Course Code:** TKENGL1301

**Prerequisite:** TSI Reading & Writing or ELAR.

Intensive study of and practice in writing processes, from invention to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices; sensitivity to writing's purpose, arrangement, style, and audience. Focus on academic writing as a vehicle for learning, communication, and critical analysis. Required of all freshmen.

## **ENGL 1302 - Rhetoric and Composition**

**1 semester/1 credit/ 1 period**

**Texas A&M University - Kingsville (3 college credits)**

**Grade Placement:** 9-11      **Course Code:** TKENGL1302

**Prerequisite:** TSI Reading & Writing or ELAR. ENGL 1301

Continuation of ENGL 1301. Intensive study of and practice in the strategies and techniques for developing. Emphasis on effective and ethical rhetorical inquiry, including research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions through academic writing.

## **ENGL 2311 - Technical & Business Writing**

**1 semester/1 credit/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11      **Course Code:** CBENGL2311

**Prerequisite:** TSI Reading & Writing.

Intensive study of and practice in professional settings. Focus on the types of documents necessary to make decisions and take action on the job, such as proposals, reports, instructions, policies and procedures, e-mail messages, letters, and descriptions of products and services. Practice individual and collaborative processes involved in the creation of ethical and efficient documents.



# MATHEMATICS

## Algebra 1

**1 semester/ 1 credit/ 2 periods**

**Grade Placement:** 9      **Course Code:** 15213

**Prerequisite:** None.

Basic understandings: foundation concepts for high school mathematics; algebraic thinking and symbolic reasoning; function concepts; relationship between equations and functions; tools for algebraic thinking; and underlying mathematical processes.

## Algebra 1 Honors (*Weighted*)

**1 semester/ 1 credit/ 2 periods**

**Grade Placement:** 9      **Course Code:** 15214

**Prerequisite:** Students must first obtain a performance level of “Meets Grade Level” on the most recent core subject related STAAR/EOC assessment or score at “Approaches Grade Level” and have an 80 in the previous course.

A fast-paced curriculum for students not requiring additional time and practice in order to be successful. Basic understandings: foundation concepts for high school mathematics; algebraic thinking and symbolic reasoning; function concepts; relationship between equations and functions; tools for algebraic thinking; and underlying mathematical processes. This class fosters responsibility by providing the opportunity to work at a higher level and better prepare students for Dual Enrollment courses.

## Geometry

**1 semester/ 1 credit/ 2 periods**

**Grade Placement:** 9-10      **Course Code:** 15218

**Prerequisite:** Algebra 1.

Basic understandings: foundation concepts for high school mathematics; geometric thinking and spatial reasoning; geometric figures and their properties; the relationship between geometry, other mathematics, and other discipline tools for geometric thinking; and underlying mathematical processes.

## Geometry Honors (*Weighted*)

**1 semesters/ 1 credit/ 2 periods**

**Grade Placement:** 9-10      **Course Code:** 15219

**Prerequisite:** Algebra 1 & student must first obtain a performance level of “Meets Grade Level” on the most recent core subject related STAAR/EOC assessment or score at “Approaches Grade Level” and have an 80 in the previous course.

A fast-paced curriculum for students who have a strong foundation in Algebra and do not require additional time and practice to be successful. It promotes independent learning aided with project-based lessons to increase the depth and understanding of concepts. Topics included are the same as Geometry but are not restricted to those topics. The goal is to foster student responsibility by providing the opportunity to work at a pre-college level and prepare students for Dual Enrollment courses.

## Algebra 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12      **Course Code:** 15215

**Prerequisite:** Algebra 1 and Geometry.

Basic understandings: Foundation concepts for high school mathematics; algebraic thinking and symbolic reasoning; functions, equations, and their relationship; relationship between algebra and geometry; tools for algebraic thinking; and underlying mathematical processes.

## Algebra 2 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12      **Course Code:** 15216

**Prerequisite:** Algebra 1 and Geometry Honors or regular Geometry with an 85 or higher.

Algebra 2 Honors is intended for students not requiring additional time and practice in order to be successful. With the same basic understanding as Algebra 2, it promotes independent learning aided with project-based lessons to increase the depth and understanding of concepts. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Dual Enrollment courses offered in the 11th and 12th grades.

## Precalculus

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 15220

**Prerequisite:** TSI Math.

Use symbolic reasoning and analytical methods to represent mathematical situations, to express generalizations, and to study mathematical concepts and the relationships among them; use functions, equations, and limits as useful tools for expressing generalizations and analyzing and understanding a broad variety of mathematical relationships; use functions to represent and connect ideas in geometry, probability, statistics, trigonometry, and calculus and to model physical situations.

## Precalculus Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12    **Course Code:** 15221

**Prerequisite:** TSI Math. Algebra 2 Honors or regular Algebra 2 with an 85 or higher.

Precalculus Honors is for students not requiring additional time and practice in order to be successful. With the same basic understandings as Precalculus, but not limited to them, the goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Honors courses offered in the eleventh and twelfth grades.

## Calculus Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 15225

**Prerequisite:** TSI Math. Precalculus Honors or regular Precalculus with an 85 or higher.

Topics covered: Limits, continuity, differentiation with applications, integration, definite integral with properties, and applications of integration. **Students should only take this course if College Algebra is not advised.**

## Algebraic Reasoning

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 15224

**Prerequisite:** Algebra 1 and Geometry.

Students will apply mathematics to problems arising in everyday life, society, and the workplace. The student develops and applies reasoning, planning, and communication to make decisions and solve problems in applied situations involving numerical reasoning, probability, statistical analysis, finance, mathematical selection, and modeling with algebra, geometry, trigonometry, and discrete mathematics.

## Mathematics Model with Applications

**APEX course/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 15234

**Prerequisite:** Principal Approval.

Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, to model information, and to solve problems from various disciplines; use methods to model and solve real-life applied problems involving money, data, chance, patterns, music, design, and science; use models from algebra, geometry, probability, and statistics and connections among these to solve problems from a wide variety of advanced applications in both mathematical and nonmathematical situations; use a variety of representations (concrete, pictorial, numerical, symbolic, graphical, and verbal), tools, and technology (including, graphing calculators and computers) to link modeling techniques.

## MATH 1332 - Contemporary Mathematics

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBMATH1332

**Prerequisite:** TSI Math score of 343 or above.

Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included.

### **MATH 1314 - College Algebra**

**1 semester /0.5 credits/ 1 period**

**Texas A&M University - Kingsville (3 college credits)**

**Grade Placement: 11-12 Course Code: TKMATH1314**

**Prerequisite:** TSI Math, Algebra 1, Algebra 2

College-level topics in algebra including functions, graphs, variation, piecewise defined functions, equations of lines, elementary curve fitting, quadratic equations and functions, systems of linear and nonlinear equations, composition of functions, inverse functions, exponential and logarithmic functions and applications related to these topics. Prerequisite: two years of high school algebra and appropriate scores on mathematics placement tests.

### **MATH 1316 - Trigonometry**

**1 semester /0.5 credits/ 1 period**

**Texas A&M University - Kingsville (3 college credits)**

**Grade Placement: 11-12 Course Code: TKMATH1316**

**Prerequisite:** MATH 1314.

Fundamental notions and definitions, functions of angles, logarithms, circular measure, solution of triangles. Required of all engineering students.

# SCIENCE

## Biology

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-10      **Course Code:** 15310

**Prerequisite:** None.

This course includes a study of living organisms and vital processes. Themes that will be covered in this course include scientific skills, ecology, biochemistry, cellular processes, genetics, evolution, classification of organisms, as well as plant and human body systems.

## Biology Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9      **Course Code:** 15311

**Prerequisite:** Students must first obtain a performance level of “Meets Grade Level” on the most recent core subject related STAAR/EOC assessment or score at “Approaches Grade Level” and have an 80 in the previous course.

This course is a laboratory-based, academically rigorous course that is intended to prepare students for advanced biology courses, such as AP or dual credit Biology. Introduction: This course includes a study of living organisms and vital processes. Themes that will be covered in this course include scientific skills, ecology, biochemistry, cellular processes, genetics, evolution, classification of organisms, as well as plant and human body systems. The goal is to foster student responsibility for scholarship by providing the opportunity to work at a pre-college level and better prepare students for the Honors courses offered in the eleventh and twelfth grades.

## Chemistry

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-11      **Course Code:** 15312

**Prerequisite:** Biology, Algebra 1, and completion of or concurrent enrollment in Geometry.

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving; study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermo-chemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

## Chemistry Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-10      **Course Code:** 15313

**Prerequisite:** Biology, Algebra 1 and completion of or concurrent enrollment in Geometry. Students must first obtain a performance level of “Meets Grade Level” on the Algebra 1 STAAR/EOC assessment or score at “Approaches Grade Level” and have an 80 in the previous course.

This class is an accelerated class that studies in-depth various topics. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving; study a variety of topics that include characteristics of matter, use of the Periodic Table, development of atomic theory and chemical bonding, chemical stoichiometry, gas laws, solution chemistry, thermo-chemistry, and nuclear chemistry. Students will investigate how chemistry is an integral part of our daily lives.

## **Integrated Physics & Chemistry**

**APEX course/ 1 credit/ 1 period**

**Grade Placement:** 9      **Course Code:** 15309

**Prerequisite:** Principal Approval.

Introduction: Students conduct laboratory and field investigations, use scientific methods during investigation, and make informed decisions using critical thinking and scientific problem solving; integration of the disciplines of physics and chemistry in the following topics: force, motion, energy, and matter.

## **Physics**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12      **Course Code:** 15314

**Prerequisite:** Biology, Chemistry, and completion of or concurrent enrollment in Algebra 2.

This is an accelerated class that studies various physical topics in-depth. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. This course relies heavily on math.

## **Physics Honors (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12      **Course Code:** 15315

**Prerequisite:** Biology, Chemistry, and completion of or concurrent enrollment in Algebra 2. Student must first obtain a performance level of "Meets Grade Level" on the most recent core subject related STAAR/EOC assessment or score at "Approaches Grade Level" and have an 80 in the previous course.

This is an accelerated class that studies various physical topics in-depth. Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving.

## **Anatomy & Physiology**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12      **Course Code:** 15321

**Prerequisite:** Biology or Biology Honors and Chemistry or Chemistry Honors.

Anatomy and Physiology is a study of the human systems and is geared to meet the needs of students interested in a career in the medical field. This lab-oriented course is designed to demonstrate safe practices using biological equipment and chemicals as well as safe dissecting techniques. Students will participate fully in labs and use safe procedures in handling dissection specimens, recognize and identify organs on models and on dissected specimens. Students will describe the function of each body system and identify disorders of homeostasis of a particular system.

## **Anatomy & Physiology Honors (Weighted)**

**2 semesters/ 1 credit/1 period**

**Grade Placement:** 11-12      **Course Code:** 15322

**Prerequisite:** Biology or Biology Honors and Chemistry or Chemistry Honors and 90 in Biology and Chemistry.

Anatomy and Physiology Honors is an accelerated class that studies in-depth various topics relating to human systems and is geared to meet the needs of students interested in a career in the medical field. This lab-oriented course is designed to demonstrate safe practices using biological equipment and chemicals as well as safe dissecting techniques. Students will participate fully in labs and use safe procedures in handling dissection specimens, recognize and identify organs on models and on dissected specimens. Students will describe the function of each body system and identify disorders of homeostasis of a particular system.

## **Aquatic Science**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 15319

**Prerequisite:** Biology or Biology Honors, Chemistry or Chemistry Honors.

Students study the interactions of biotic and abiotic components in aquatic environments, including impacts on aquatic systems. Investigations and field work in this course may emphasize freshwater or marine aspects of aquatic science depending primarily upon the natural resources available for study near the school. Students who successfully complete Aquatic Science will acquire knowledge about a variety of aquatic systems, conduct investigations and observations of aquatic environments, work collaboratively with peers, and develop critical-thinking and problem-solving skills. **A \$10.00 lab fee is required to pay for necessary supplies.**

## **Earth Systems Science**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 15320

**Prerequisite:** Three units of science, one of which may be taken concurrently, and three units of mathematics, one of which may be taken concurrently.

Earth Systems Science (ESS) is a capstone course designed to build on students' prior scientific and academic knowledge and skills to develop understanding of Earth's system in space and time. ESS includes the study of earth in space and time, solid Earth and fluid Earth through the three strands of systems, energy, and relevance.

## **BIOL 1306/1106 - Biology for Science Majors 1**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (4 college credits)**

**Grade Placement:** 11-12    **Course Code:** CBBiol1306

**Prerequisite:** TSI Reading and Writing. Must take BIOL 1306 and BIOL 1106 concurrently.

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included.

## **BIOL 1306 - General Biology 1**

**1 semester /0.5 credits/ 1 period**

**Texas A&M University - Kingsville (3 college credits)**

**Grade Placement:** 11-12    **Course Code:** TKBIOL1306

**Prerequisite:** TSI Reading or ELAR. Must be taken concurrently with BIOL 1106.

Survey of contemporary biology that covers the chemical basis of life, structure, function and physiology of the cell, molecular biology and microevolution. Three lecturer hours and one discussion hour a week for one semester.

## **BIOL 1106 - General Biology 1 Lab**

**1 semester /0.5 credits/ 1 period**

**Texas A&M University - Kingsville (1 college credits)**

**Grade Placement:** 11-12    **Course Code:** TKBIOL1106

**Prerequisite:** TSI Reading or ELAR. Must be taken concurrently with BIOL 1306.

A laboratory experience that focuses on laboratory techniques, data collection and analysis. The experience reinforces and promotes an understanding of the cell structure, energy transformation, reproduction and genetic variability.

## **BIOL 1307 - General Biology 2**

**1 semester /0.5 credits/ 1 period**

**Texas A&M University - Kingsville (3 college credits)**

**Grade Placement:** 11-12    **Course Code:** TKBIOL1307

**Prerequisite:** TSI Reading or ELAR. BIOL 1306, Must be taken concurrently with BIOL 1107.

Continuation of a two-semester course in biological concepts; will emphasize organismal diversity and comparative anatomy, reproduction, physiology, ecology, behavior and evolution. Three lecture hours and one discussion hour a week for one semester.

## **BIOL 1107 - General Biology 2 Lab**

**1 semester /0.5 credits/ 1 period**

**Texas A&M University - Kingsville (1 college credits)**

**Grade Placement:** 11-12    **Course Code:** TKBIOL1107

**Prerequisite:** TSI Reading or ELAR. Must be taken concurrently with BIOL 1307.

Experimental and observational techniques used to study plant and animal life at the organismal, population and community levels including morphology, physiology, reproduction and ecology.

**CHEM 1311 - General Inorganic Chemistry 1****1 semester /0.5 credits/ 1 period****Texas A&M University - Kingsville (3 college credits)****Grade Placement: 11-12 Course Code: TKCHEM1311****Prerequisite:** TSI Math. Chemistry and MATH 1314. Must be taken concurrently with CHEM 1111.

The first course for students majoring in a field of science, engineering or agriculture. Principles of stoichiometry, thermochemistry, atomic and molecular structures, gases, liquids, solids and solutions and the chemistry of the elements and their compounds

**CHEM 1111 - General Inorganic Chemistry 1 Lab****1 semester /0.5 credits/ 1 period****Texas A&M University - Kingsville (1 college credits)****Grade Placement: 11-12 Course Code: TKCHEM1111****Prerequisite:** TSI Math. Chemistry and MATH 1314. Must be taken concurrently with CHEM 1311.

A laboratory experience that focuses on laboratory techniques, data collection and analysis. The experience reinforces and promotes an understanding of the principles of stoichiometry, gases, liquids, solutions and energy. One hour of recitation.

**CHEM 1312 - General Inorganic Chemistry 2****1 semester /0.5 credits/ 1 period****Texas A&M University - Kingsville (3 college credits)****Grade Placement: 11-12 Course Code: TKCHEM1312****Prerequisite:** TSI Math. CHEM 1311 and CHEM 1111.

The second course for students majoring in a field of science, engineering or agriculture. Principles of chemical kinetics, chemical equilibrium, thermodynamics, electrochemistry and the chemistry of the elements and their compounds.

**CHEM 1112 - General Inorganic Chemistry 2 Lab****1 semester /0.5 credits/ 1 period****Texas A&M University - Kingsville (1 college credits)****Grade Placement: 11-12 Course Code: TKCHEM1112****Prerequisite:** TSI Math. CHEM 1311 and CHEM 1111. Must be taken concurrently with CHEM 1312.

A laboratory experience that focuses on laboratory techniques, data collection and analysis. The experience reinforces and promotes an understanding of the principles of stoichiometry, gases, liquids, solutions and energy. One hour of recitation.

**GEOL 1303 - Physical Geology****1 semester /0.5 credits/ 1 period****Texas A&M University - Kingsville (3 college credits)****Grade Placement: 11-12 Course Code: TKGEOL1303****Prerequisite:** TSI Not Required. Must be taken concurrently with GEOL 1103.

General composition and form of the earth's surface and the volcanic, erosional, depositional and deformational processes which operate on it. The properties of the interior of the earth inferred from earthquakes and other external evidence. Occasional field trips may be arranged.

**GEOL 1103 - Physical Geology Lab****1 semester /0.5 credits/ 1 period****Texas A&M University - Kingsville (3 college credits)****Grade Placement: 11-12 Course Code: TKGEOL1103****Prerequisite:** TSI Not Required. Must be taken concurrently with GEOL 1303.

A laboratory experience that focuses on laboratory techniques, data collection and analysis. The experience reinforces and promotes greater understanding of earth materials and the physical processes at work on and in the earth.



# SOCIAL STUDIES

## World Geography

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15410

**Prerequisite:** None.

World Geography examines people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues.

## World Geography Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15411

**Prerequisite:** Students must first obtain a performance level of “Meets Grade Level” on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

This fast-paced curriculum is for students not requiring additional time and practice in order to be successful. Students examine people, places, and environments at local, regional, national, and international scales from the spatial and ecological perspectives of geography. Students describe the influence of geography on events of the past and present with emphasis on contemporary issues.

## World History

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15412

**Prerequisite:** None.

World History Studies offers students an overview of the entire history of mankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Emphasis will be placed on critical analysis and critical thinking of historical events and people as well as a deeper understanding of history. Students will be expected to synthesize past knowledge and make connections regarding different cultures and peoples throughout history.

## World History Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15413

**Prerequisite:** Students must first obtain a performance level of “Meets Grade Level” on the most recent core subject related STAAR/EOC assessment or have an 80 in the previous course.

World History Studies offers students an overview of the entire history of mankind. The major emphasis is on the study of significant people, events, and issues from the earliest times to the present. Historical points of reference in world history are identified as students analyze important events and issues in western civilization as well as other civilizations in other parts of the world. Critical thinking and synthesis are key components to further the understanding of historical events.

## US History Since 1877

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-11      **Course Code:** 15414

**Prerequisite:** None.

In US History Since 1877, the course content includes the founding documents, industrialization & urbanization, major wars, domestic & foreign policies, and reform movements, including civil rights. Students analyze constitutional issues, the relationship between the arts & popular culture and the impact of technological innovations on American society. Students use critical-thinking skills and a variety of primary and secondary source material that historians use to interpret the past.

## HIST 1302 - American History since 1877

**1 semester /1 credits/ 1 period**

**Texas A&M University - Kingsville (1 college credits)**

**Grade Placement:** 11-12      **Course Code:** TKHIST1302

**Prerequisite:** TSI Reading or ELAR.

A survey of the United States from the period of Reconstruction (1877) to the present.



### **Economics Honors (*Weighted*)**

**1 semesters/ 0.5 credit/ 1 period**

**Grade Placement:** 12      **Course Code:** 15419

**Prerequisite:** None.

Economics Honors is a college-level course that introduces students to the principles that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price-level determination. It also develops students' familiarity with economic performance measures, the financial sector, stabilization policies, economic growth, and international economics. Economics Honors is comparable to a one-semester introductory college course in Macroeconomics.

### **US Government & Politics**

**1 semesters/ 0.5 credit/ 1 period**

**Grade Placement:** 12      **Course Code:** 15416

**Prerequisite:** None.

This course is the culmination of the civic and governmental content and concepts studied from Kindergarten through required secondary courses. 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.

### **HIST 1301 - American History to 1877**

**1 semester /1 credits/ 1 period**

**Texas A&M University - Kingsville (1 college credits)**

**Grade Placement:** 11-12      **Course Code:** TKHIST1301

**Prerequisite:** TSI Reading or ELAR.

A survey of the United States from the era of exploration through the period of Reconstruction (1877).

### **POLS 2301 - Government and Politics of US**

**1 semester /1 credits/ 1 period**

**Texas A&M University - Kingsville (1 college credits)**

**Grade Placement:** 11-12      **Course Code:** TKPOLS2301

**Prerequisite:** TSI Reading or ELAR.

A survey of the structures, functions and processes of the political system of the United States. Fulfills 3 semester hours of the legislative degree requirement of 6 hours.

### **POLS 2302 - Government and Politics of TX**

**1 semester /1 credits/ 1 period**

**Texas A&M University - Kingsville (1 college credits)**

**Grade Placement:** 11-12      **Course Code:** TKPOLS2302

**Prerequisite:** TSI Reading or ELAR.

A survey of the structures, functions and processes of the Texas political system. Fulfills 3 semester hours of the legislative degree requirements of 6 hours.

### **Economics**

**1 semesters/ 0.5 credit/ 1 period**

**Grade Placement:** 12      **Course Code:** 15417

**Prerequisite:** None.

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 problems of scarcity in the US and around the world. Students analyze supply, demand, and price, investigate the concepts of specialization and trade, economic growth, inflation, and monetary and fiscal policy, and use cost-benefit analysis to evaluate options.

### **Personal Financial Literacy**

**1 semesters/ 0.5 credit/ 1 period**

**Grade Placement:** 11      **Course Code:** 15423

**Prerequisite:** World Geography or World History.

Personal Financial Literacy is designed to be an interactive and research based course. The course will teach students to analyze decisions involving earning and spending, saving and investment, credit and borrowing, insuring and protecting, and college and post-secondary education and training. innovations on American life. Students use critical-thinking skills and a variety of primary and secondary source material to explain and apply different methods that historians use to understand and interpret the past, including multiple points of view and historical context.

**PSYC 2301 - General Psychology****1 semester /0.5 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBPSYC2301**Prerequisite:** TSI Reading.

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

**PSYC 2301 - Introduction to Psychology****1 semester /0.5 credits/ 1 period****Texas A&M University - Kingsville (3 college credits)****Grade Placement:** 9-12      **Course Code:** TKPSYC2301**Prerequisite:** TSI Reading.

Scientific method of psychology; psychological phenomena and basic processes necessary to understanding human behavior.

**SOCI 1301 - Principles of Sociology****1 semester /0.5 credits/ 1 period****Texas A&M University - Kingsville (3 college credits)****Grade Placement:** 9-12      **Course Code:** TKSOCI1301**Prerequisite:** No TSI Required.

Study of the nature of human societies, social processes, social interaction, groups, culture, institutions and social change.

**PHIL 1301 - Introduction to Philosophy****1 semester /0.5 credits/ 1 period****Texas A&M University - Kingsville (3 college credits)****Grade Placement:** 9-12      **Course Code:** TKPHIL1301**Prerequisite:** No TSI Required.

Inquiries into the nature of the self, the universe and society as they relate to various definitions of reality, truth and value with readings from major works of classical and modern philosophers.

**PHIL 1301 - Introduction to Philosophy****1 semester /0.5 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBPHIL1301**Prerequisite:** TSI Reading.

A study of major issues in philosophy and/or the work of major philosophical figures in philosophy. Topics in philosophy may include theories of reality, theories of knowledge, theories of value, and their practical applications.

# ELECTIVE COURSE DESCRIPTIONS

## LANGUAGES OTHER THAN ENGLISH

### Spanish 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 16110

**Prerequisite:** None.

Students will understand and use conversational Spanish that will demonstrate knowledge of main ideas in listening and reading; produce learned words, phrases, and sentences in speech and writing accurately; recognize the importance of culture and history of the Americas in the 21st century.

### Spanish 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 16120

**Prerequisite:** Spanish 1.

Spanish Level II includes the same areas of Spanish Level 1 with emphasis on increased understanding and expanded vocabulary. Grammar will include: learned concepts, past tenses, oral proficiency (novice-intermediate); listening comprehension, writing skills limited to short paragraphs, reading comprehension and cultural awareness of the Hispanic world.

### Spanish 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 16130

**Prerequisite:** Spanish 1.

Spanish III is an extension of Spanish II skills. Cultural, literary exerts are intermingled with grammatical/linguistic concepts. The course will cover language proficiency expectations at the level of intermediate beginner to intermediate; oral proficiency evaluation, readings from text and related supplemental materials cultural projects utilizing reading, writing, skills and oral presentations.

### SPAN 1313 - Elementary Spanish 1

**1 semester /1 credits/ 1 period**

**Texas A&M University - Kingsville (1 college credits)**

**Grade Placement:** 11-12      **Course Code:** TKSPAN1313

**Prerequisite:** No TSI Required.

Open only to students with little or no previous contact with the Spanish language. An introductory course teaching the fundamentals of Spanish in order to develop listening, speaking, reading and writing abilities. Language laboratory required.

### SPAN 1314 - Elementary Spanish 2

**1 semester /1 credits/ 1 period**

**Texas A&M University - Kingsville (1 college credits)**

**Grade Placement:** 11-12      **Course Code:** TKSPAN1314

**Prerequisite:** No TSI Required. SPAN 1313.

Continuation of SPAN 1313. Language laboratory required.

### American Sign Language (ASL) 4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 16144

**Prerequisite:** American Sign Language (ASL) 1-3.

Students of ASL will use their knowledge of culture and language to increase their understanding of the Deaf community. They will have experience with interpreting from voice-to-sign, sign-to-voice, and consecutive interpreting; as well as to interact with members of the Deaf cultures. Students enhance their personal and public lives and meet the career demands of the current times by using ASL to participate in Deaf communities in Texas, other states, and around the world.

# PHYSICAL EDUCATION

Students may substitute certain physical activities for required credits for physical education from the courses listed in this section. Each course listed may equal one-half to one credit for graduation. In Physical Education, students acquire the knowledge and skills for movement that provide the foundation for enjoyment, continued social development through physical activity, and access to a physically-active lifestyle. The student exhibits a physically-active lifestyle and understands the relationship between physical activity and health throughout the lifespan. Some courses may be taken for up to four substitution credits toward graduation credit.

**Advanced Measure (Weighted):** Students must remain academically eligible the entire year and participate on the team (be on the roster) to get the weighted credit for the course.

## **Baseball (Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15500-3

**Prerequisite:** Coach approval required.

UIL baseball involves inter-school competition. UIL baseball emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## **Basketball (Boys/Girls) (Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12

**Course Code:** Boys - 15504-7, Girls - 15508-11

**Prerequisite:** Coach approval required.

UIL basketball involves inter-school competition. UIL basketball emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## **Football (Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15520-3

**Prerequisite:** Coach approval required.

UIL football involves inter-school competition. UIL football emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches..

## **Cheerleading (Up to 1 PE Credit) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15512-5

**Prerequisite:** Tryouts required.

Squads are required to attend summer camp to build on skills they will use throughout the season. Skills are refined and utilized to incorporate in pep rallies and games including, but not limited to, FB, VB and BB. Squad members will continue basic conditioning programs throughout the year to build on skills. Squad members are responsible for developing plans to promote school spirit which include but are not limited to: planning pep rallies, creating signs, posters, and skits to be utilized.

## **Drill Team (Up to 1 PE Credit) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15568-71

**Prerequisite:** Auditions required.

Students will acquire skills in the following dance techniques: ballet, jazz, modern, square, social and folk. Students will be provided the opportunity to create expressions through movement, be aware of space, time, and energy as design techniques or composition, and develop self-confidence and appreciation of dance as an art form. During the fall semesters, students will perform at all varsity football games and designated varsity home basketball games. During the spring semester, students will choreograph, perform, costume, and critique an original dance.

## **PE-Individual Sports**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15577

**Prerequisite:** Auditions required.

Students in Individual Sports are expected to participate in a wide range of individual sports that can be pursued for a lifetime. The continued development of health-related fitness and the selection of individual sport activities that are enjoyable is a major objective of this course.

## **PE-Foundations of Personal Fitness**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15576

**Prerequisite:** None.

Students will be involved in physical skills in various activities that are designed to acquaint students with basic knowledge, understanding, and values of physical education. These activities will range from major seasonal sports to conditioning/ rhythms or aerobics and will include many recreational games. Physical fitness, as it relates to optimal healthful living and lifetime carry-over, will be emphasized.

## **PE-Team Sports**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15579

**Prerequisite:** None.

Students enrolled in Team Sports are expected to develop health-related fitness and an appreciation for team work and fair play. Like the other high school physical education courses, Team Sports is less concerned with the acquisition of physical fitness during the course than reinforcing the concept of incorporating physical activity into a lifestyle beyond high school.

## **Golf (Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15585-8

**Prerequisite:** Coach approval required.

UIL golf involves inter-school competition. UIL golf emphasizes, physical fitness, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## **Soccer (Boys/Girls) (Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12

**Course Code:** Boys - 15532-5, Girls - 15536-9

**Prerequisite:** Coach approval required.

UIL soccer involves inter-school competition. UIL soccer emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## **Softball (Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15540-3

**Prerequisite:** Coach approval required.

UIL softball involves inter-school competition. UIL softball emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## **Swimming (Boys/Girls)(Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12

**Course Code:** Boys - 15548-51, Girls - 15544-47

**Prerequisite:** Coach approval required.

UIL swimming/diving involves inter-school competition. UIL swimming emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

## **Tennis (Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15552-5

**Prerequisite:** Coach approval required.

UIL tennis involves inter-school competition. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches. Students will adhere to the athletic director approved contract and will participate in the Team Tennis dual matches and tournaments.

### **Track/Cross (Boys/Girls) (Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15556-3 &  
Girls: 15590-3

**Prerequisite:** Coach approval required.

UIL track/cross country involves inter-school competition. UIL track/cross country emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

### **Volleyball (Athletics 1-4) (Weighted)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 5564-5567

**Prerequisite:** Coach approval required.

UIL volleyball involves inter-school competition. UIL swimming emphasizes group skills, physical fitness, team sports, and sportsmanship. Student athletes must try out for this course and meet the designated proficiencies as stipulated by the coach/coaches.

### **Non-District Physical Education**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 5570-5573

**Prerequisite:** Approval from Superintendent.

Private or commercially sponsored physical activities include those certified by the superintendent to be of high quality and well supervised by appropriately trained instructors. Student participation of at least five hours per week must be required. Students certified to participate at this level may not be dismissed from any part of the regular school day.

# CITIZENSHIP DEVELOPMENT/ NAVAL SCIENCE PROGRAM

The Citizenship Development/Naval Science Program combines academic study with physical fitness training, military drill, and instruction in citizenship development and patriotism. Cadets must be able to fully participate in the school's physical fitness program and will be required to complete a one-mile run/walk along with push-ups and sit-ups during the semi-annual Navy Physical Fitness Test. Cadets are required to wear their Navy uniform and participate in physical fitness training no less than once per week. Cadets who desire to compete against other JROTC units should plan to practice after school as members of the Drill Team, Academic Team, and/or the Rifle Team. All cadets will be required to perform a drill exhibition, as a unit, for the Navy and School District inspectors once per year during the Annual Military Inspection (AMI). **These courses may be used as PE substitutions.**

## NJROTC 1 (Naval Science)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15528

**Prerequisite:** None.

Naval Science 1 is a multi-disciplinary course that includes an introduction to the CDP program and leadership training. Subjects also include Naval Ships and Damage Control, the Navy and its people, sea power and maritime geography, oceanography; introduction to navigation and time, basic seamanship, first aid, and general health education. Physical training (PT) is required of all cadets.

## NJROTC 2 (Naval Science)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12      **Course Code:** 15529

**Prerequisite:** NJROTC 1.

Naval Science 2 course emphasizes leadership, citizenship, and career planning for both civilian and military occupations. Naval History and Naval Weapons are introduced. Other topics include: Navigation Fundamentals, Small Boat Seamanship, Survival Training, Orienteering, both Inner and Outer Space, current events and world-wide political events, etc. Cadets classified as JUNIORS are REQUIRED to take the ASVAB (military entrance exam) during the Fall semester.

## NJROTC 3 (Naval Science)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15030

**Prerequisite:** NJROTC 1 and 2.

Naval Science 3 course emphasizes leadership, citizenship, and career planning for both civilian and military occupations. Naval History and Naval Weapons are introduced. Other topics include: Navigation Fundamentals, Small Boat Seamanship, Survival Training, Orienteering, both Inner and Outer Space, current events and world-wide political events, etc. Cadets classified as JUNIORS are REQUIRED to take the ASVAB (military entrance exam) during the Fall semester.

## NJROTC 4 (Naval Science)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 12      **Course Code:** 15031

**Prerequisite:** NJROTC 1, 2, and 3.

Naval Science 4 course emphasize leadership, citizenship, and career planning for both civilian and military occupations and the practical application thereof by usually being placed in unit leadership positions. The NJROTC 4 cadets may be given real-world tasks as practice for job interviews or military enlistment.



# FINE ARTS

## Art 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15812

**Prerequisite:** None.

This course provides a broad foundation into the elements and principles of design to develop skills in creative thinking and communication. Students will work hands-on with a variety of media which may include drawing (pencil, pastels, charcoal, colored pencil), painting (tempera and watercolor), sculpture (clay, paper), printmaking (linoleum), and mixed media. Art appreciation, art history and evaluation through student and teacher critiques expand the student's verbal and visual vocabulary.

## Art 2, Draw 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15819

**Prerequisite:** Art 1.

In this second year course, students work both from observation and imagination on projects and exercises designed to improve drawing and compositional skills. Students will work in a variety of media such as pencil, ink, scratchboard, pastels and mixed media. It is designed to engage students in higher level thinking skills through creative problem solving and personal expression. Students will create original works of art in the areas of portraits, landscapes, interiors, still life images, perspective drawings, figure drawings and other areas of interest. Participation in a variety of local, regional, and national art competitions is encouraged.

## Art 3, Draw 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12      **Course Code:** 15820

**Prerequisite:** Art 1 and Art 2, Draw 1.

This third year course requires the student to develop a portfolio of advanced art pieces. Students will work towards the development of a personal style through the creation of works of art using a variety of media such as pencil, ink, scratchboard, pastels and mixed media. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

## Art 4, Draw 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12      **Course Code:** 15821

**Prerequisite:** Art 1; Art 2, Draw 1; and Art 3, Draw 2.

This fourth year course requires the student to develop a portfolio of advanced art pieces. Students will work towards the development of a personal style through the creation of works of art using a variety of media such as pencil, ink, scratchboard, pastels and mixed media. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

## Art 2, Painting 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15818

**Prerequisite:** Art 1.

This second year course provides exposure to a variety of art processes and techniques. The elements and principles of design are studied in addition to major artists and art movements. Instruction emphasizes the development of a personal style and painting skills. Students will continue to work with a variety of painting techniques while using watercolor, tempera, acrylic, under glaze and mixed media on two- and three-dimensional surfaces to create original works of art. Students will work in collaboration with the teacher to devise individual projects.



### **Art 3, Painting 2**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12    **Course Code:** 15822

**Prerequisite:** Art 1 and Art 2, Painting 1

This third year course requires the student to develop a portfolio of advanced art pieces. Students will continue to work with a variety of painting techniques while using watercolor, tempera, acrylic, under glaze and mixed media on two- and three-dimensional surfaces to create original works of art. Students will work in collaboration with the teacher to devise individual projects. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

### **Art 4, Painting 3**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 15823

**Prerequisite:** Art 1; Art 2, Painting 1; and Art 3, Painting 2

This fourth year course requires the student to develop a portfolio of advanced art pieces. Students will continue to work with a variety of painting techniques while using watercolor, tempera, acrylic, under glaze and mixed media on two- and three-dimensional surfaces to create original works of art. Students will work in collaboration with the teacher to devise individual projects. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

### **Art 2, Sculpture 1**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12    **Course Code:** 15814

**Prerequisite:** Art 1.

This second year course provides exposure to a variety of art processes and techniques. Emphasis will be placed on the development of compositional skills and imaginative use of the elements and principles of design. The class is designed to strengthen the student's three-dimensional and spatial skills. Students will experiment with a variety of sculpting materials and tools. Ancient through contemporary sculptures will be studied.

### **Art 3, Sculpture 2**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12    **Course Code:** 15815

**Prerequisite:** Art 1 and Art 2, Sculpture 1.

This third year course provides exposure to a variety of art processes and techniques. Emphasis will be placed on the advanced development of compositional skills and imaginative use of the elements and principles of design in sculpture. The class is designed to strengthen the student's three-dimensional and spatial skills. Students will experiment with a variety of sculpting materials, tools and subjects to develop artwork that express the student's personal style and concept. Ancient through contemporary sculptures will be studied.

### **Art 4, Sculpture 3**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 15816

**Prerequisite:** Art 1; Art 2, Sculpture 1; and Art 3, Sculpture 2.

This fourth year course requires the student to develop a portfolio of advanced art pieces. Students will continue to work with a variety of painting techniques while using watercolor, tempera, acrylic, under glaze and mixed media on two- and three-dimensional surfaces to create original works of art. Students will work in collaboration with the teacher to devise individual projects. Participation in a variety of local, regional, and national art competitions is expected. Students are required to devote time outside of the normal class period.

### **Art Honors: Studio Art-Drawing Portfolio (Weighted Course)**

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 15813

**Prerequisite:** Art 1; Art 2, Draw 1/Painting 1; Art 3, Draw 2/Painting 2; and Art 4, Draw 3/Painting 3 .

This advanced art course enables highly motivated students to work in collaboration with the teacher to prepare and present a performance-based portfolio, which is assessed in three parts. The “quality” section will include five quality pieces of art for the judges to examine. The “concentration” section will consist of 12 slides documenting an in-depth study of a chosen artistic concern. The BREDTH section will consist of 12 slides of the students' work showing a wide range of successful drawings in a variety of approaches and media. Students rated qualified to extremely well qualified may receive advanced placement. Participation in a variety of local, regional, and national art competitions is expected.

### **ARTS 1301 - Art Appreciation**

**1 semester/1 credit/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBARTS1301

**Prerequisite:** No TSI Requirements.

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts

### **ARTS 1303 - Art History 1**

**1 semester/1 credit/ 1 period**

**Texas A&M University - Kingsville (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** TKARTS1303

**Prerequisite:** No TSI Requirements.

A lecture course in the history of painting, sculpture, architecture and other art forms from prehistoric times to the 14th century.

# CHOIR

## Choir 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15847-50

**Prerequisite:** Courses must be taken in sequence.

This course is for students with intermediate or advanced skills in sight-reading and choral singing, wanting to continue to develop vocal skills necessary for singing. Emphasis will be placed on performance of a variety of choral styles. Students will perform in concerts and participate in competitive events coordinated by UIL and TMEA. Attendance at rehearsals/performance will be required to fulfill all course objectives. The voicing of this choir is at the director's discretion.

## Vocal Ensemble Honors 3-4 (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12      **Course Code:** 15851-4

**Prerequisite:** Courses must be taken in sequence.

Students in the Vocal Ensemble Honors will participate in the Choral Department curriculum, but will also participate in District, Regional, and State competitions. They will participate in community outreach related performances including, but not limited to, singing for feeder schools, administration, nursing homes. The expectation is that these students strive and are willing to perform at the highest level.

# BAND

## Band 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12    **Course Code:** 15842-46

**Prerequisite:** Courses must be taken in sequence.

Students must have proven instrumental or color guard performance and recommendation by band director or demonstration of instrumental or color guard proficiency appropriate for high school level.

During the year students are provided the opportunity to perform in marching band. Music and marching fundamentals, flag/rifle/dance performance, music history, and development of work ethics is stressed. Individual playing opportunities are made available through competition at District, Region, Area, and State Band tryouts. During the spring semester the band provides students with an opportunity to participate in concert band and jazz band. Music fundamentals, flag/rifle/dance performance, music history, and development of work ethics are stressed. **Can count toward PE credit requirements if enrolled in marching band.**

## Band 3-4 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** HB03&HB04

**Prerequisite:** Band 1 and 2.

Although encompassing the same performance criteria as regular band courses listed, this course has an added emphasis on research and individualized study and practice. It also develops comprehensive individual musicianship. Attendance at after school rehearsals and performances will be required. The students will also be required to compete at TMEA District Band Auditions and UIL Solo and Ensemble Contests.

## Jazz 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9 -12    **Course Code:** 15838-41

**Prerequisite:** At the director's discretion.

Although encompassing the same performance criteria as regular band courses listed, this course has an added emphasis on research and individualized study and practice. It also develops comprehensive individual musicianship. Attendance at after school rehearsals and performances will be required. The students will also be required to compete at TMEA District Band Auditions and UIL Solo and Ensemble Contests.

## Mariachi Tierra Mia

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12    **Course Code:** 15834-7

**Prerequisite:** Director Approval and concurrent enrollment in Band 1.

Mariachi is a performance-oriented course for students concurrently signed up for band. Non-band students may also audition for a Mariachi Director for a position in the ensemble with band director approval. The audition is intended for experienced musicians who sing and play a mariachi instrument (guitarron, vihuela, guitarra de golpe, guitar, violin, trumpet and/or harp). The ensemble rehearses and performs traditional and contemporary mariachi music. Students will enhance their music reading and listening skills and help develop social skills and responsibility through group performance. Participation in all performances is mandatory.

## MUSI 1305 - Explorations in Music History

**1 semester /1 credit/ 1 period**

**Texas A&M University - Kingsville (3 college credits)**

**Grade Placement:** 11-12    **Course Code:** TKMUSI1305

**Prerequisite:** No TSI Required.

Historically-based exploration of Western musical styles centered on what is broadly referred to as classical music. A focus on musical vocabulary, historical concepts, and critical listening skills equips student to analyze and discuss music intelligently. Outside listening required.

# THEATRE

## Theatre Arts 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15855

**Prerequisite:** None.

Theatre Arts 1 is an introductory class with a focus on performance. The student will develop concepts about self, human relationships, elements of drama and conventions of theatre. Students will be introduced to all types of performance (acting for the stage, improvisation, scenes, and vignettes, etc.) Student will also create and perform their own original scenes in various theatrical genres.

## Theatre Arts 2-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12      **Course Code:** 15856-8

**Prerequisite:** Theatre 1. Courses must be taken in sequence.

Emphasis is placed on utilizing advanced characterization in role development: exploring classical and contemporary production styles; historical evolution of performance style and costumes as well as focusing attention to other forms of performance opportunities through radio, television and film. Class will produce a performance integrating all elements of theatre.

## Technical Theatre 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15859-62

**Prerequisite:** Courses must be taken in sequence.

Technical Theatre will concentrate on backstage aspects of play production. Students will study set design and construction, scenery, props, lighting, sound, costumes and make-up in a safe hands-on environment. Students will be involved in creating the technical aspects of productions..

## Musical Theatre 1-4

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 15863-6

**Schedule code:** Choir 1, 2 or Vocal Ensemble 1,2

**Prerequisite:** By audition only.

Musical Theatre will concentrate on concepts about self, human relationships, and the environment using elements of drama, dance, music and the conventions of musical theatre. Students interpret characters through acting, singing, and dance using voice and body expressively and create dramatizations called for in a musical script.

# DEBATE & ORAL INTERPRETATION

## Debate 1

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 16320

**Prerequisite:** None.

Students analyze and apply specific formats for debate, processes of logic and critical thinking. Reading experiences, practice writing single issue briefs, interpreting resolutions, developing affirmative and negative case construction, listening to and performing cross examination, evaluating arguments and presenting debates are heavily emphasized in the course; and other wrap-around, associated ideas are presented as well.

## Debate 2

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12      **Course Code:** 16321

**Prerequisite:** Debate 1.

Debate 1 is the introductory course and Debate 2 and 3 increase in skill level.

## Debate 2 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 10-12      **Course Code:** 16322

**Prerequisite:** Debate 1.

Debate 1 is the introductory course and Debate 2 and 3 increase in skill level. Competition at 7 TFA Tournaments is required in Debate 2&3 Honor classes.

## Debate 3

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12      **Course Code:** 16323

**Prerequisite:** Debate 1 and Debate 2.

Debate 1 is the introductory course and Debate 2 and 3 increase in skill level.

## Debate 3 Honors (*Weighted*)

**2 semesters/ 1 credit/ 1 period**

**Grade Placement:** 11-12      **Course Code:** 16324

**Prerequisite:** Debate 1 and 2, and English 3 (if using this course as 4th English).

Debate 1 is the introductory course and Debate 2 and 3 increase in skill level. Competition at 7 TFA tournaments is required in Debate 2 and 3 Honor Classes.

## Independent Study in Speech (1st time taken) - Debate 4 Honors (*Weighted*)

**1-2 semesters/0.5- 1 credit/ 1 period**

**Grade Placement:** 12      **Course Code:** 16328

**Prerequisite:** Debate 3 Honors.

Debate 1 is the introductory course and Debate 2&3 increase in skill level. Competition at 7 TFA tournaments is required in Debate 2&3 Honor Classes

## Oral Interpretation 1

**2 semesters/1 credit/ 1 period**

**Grade Placement:** 9-12      **Course Code:** 16325

**Prerequisite:** None.

Literature and its presentation are integral to understanding the culture aspects of society. Students in Oral Interpretation I will select, research, analyze, adapt, interpret, and perform literary texts as a communication art. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts to attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated.

### **Oral Interpretation 2 Honors (*Weighted*)**

**2 semesters/1 credit/ 1 period**

**Grade Placement:** 10-12     **Course Code:** 16326

**Prerequisite:** Oral Interpretation 1.

Students study the oral reading or performance of a literary text. Students will select, research, analyze, adapt, interpret, and perform literary texts. Students focus on intellectual, emotional, sensory, & aesthetic levels of texts and attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated. Oral Interp 2 enhances skill level. Competition at 7 TFA tournaments is expected in Oral Interp Honor Classes.

### **Oral Interpretation 3 Honors (*Weighted*)**

**2 semesters/1 credit/ 1 period**

**Grade Placement:** 10-12     **Course Code:** 16327

**Prerequisite:** Oral Interpretation II, English 3 (if using this course as 4th English).

Students study the oral reading or performance of a literary text. Students will select, research, analyze, adapt, interpret, and perform literary texts. Students focus on intellectual, emotional, sensory, and aesthetic levels of texts and attempt to capture the entirety of the author's work. Individual or group performances of literature will be presented and evaluated. Oral Interp 3 enhances skill level. Competition at 7 TFA tournaments is expected in Oral Interp Honor Classes.

### **Independent Study in Speech (2nd time taken) - Oral Interpretation 4 Honors (*Weighted*)**

**1-2 semesters/0.5- 1 credit/ 1 period**

**Grade Placement:** 12     **Course Code:** 16329

**Prerequisite:** Oral Interpretation 3 Honors.

Students study the oral reading or performance of a literary text. Students select, research, analyze, adapt, interpret, and perform literary texts. Students focus on intellectual, emotional, sensory, & aesthetic levels of texts and attempt to capture the entirety of the author's work. Course will build on Oral Interp 3 curriculum with a focus on presentation and literary analysis. Performances will be presented and evaluated. Competition at 7 TFA tournaments is expected in Oral Interp Honor classes.

### **COMS 1315 - Business & Professional Communication**

**1 semester /0.5 credit/ 1 period**

**Texas A&M University - Kingsville (3 college credits)**

**Grade Placement:** 9-12     **Course Code:** TKCOMS1315

**Prerequisite:** No TSI Required.

Theories and skills of speech communication as applied to business and professional situations.

### **SPCH 1315 - Public Speaking**

**1 semester /0.5 credit/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12     **Course Code:** CBSPCH1315

**Prerequisite:** No TSI Required.

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations.

# HUMANITIES

## Humanities 1-4 (Academic Decathlon/UII)

2 semesters/1 credit/ 1 period

Grade Placement: 9-12      Course Code: 16510-3

**Prerequisite:** Courses must be taken in sequence. Teacher Approval.

Students utilize UII Academic events to expand content knowledge and encourage students to engage in deeper levels of thinking through various fields of study. The course develops a foundation that can enhance student performance in academic core classes and empower them to successfully pursue a variety of college majors. UII academic students are expected to compete in virtual, invitational, and formal meets. **This course prepares students for UII academic competition and involves inter-school competition.**

Students enrolled in Academic Decathlon will engage in rigorous, in-depth study in various thematically connected subject areas. Art, music, science, mathematics, writing, speaking, social studies, economics, and reading will be part of the curriculum. **This course prepares students for Academic Decathlon competition and involves inter-school competition.**

## Humanities 1-4 Honors\* (*Weighted*) (Academic Decathlon/UII)

2 semesters/1 credit/ 1 period

Grade Placement: 9-12      Course Code: 16514-7

**Prerequisite:** Courses must be taken in sequence. Teacher Approval.

Students utilize UII Academic events to expand content knowledge and encourage students to engage in deeper levels of thinking through various fields of study. The course develops a foundation that can enhance student performance in academic core classes and empower them to successfully pursue a variety of college majors. UII academic students are expected to compete in virtual, invitational, and formal meets. **This course prepares students for UII academic competition and involves inter-school competition.**

Students enrolled in Academic Decathlon will engage in rigorous, in-depth study in various thematically connected subject areas. Art, music, science, mathematics, writing, speaking, social studies, economics, and reading will be part of the curriculum. **This course prepares students for Academic Decathlon competition and involves inter-school competition.**

**In order to receive honors credit, student must attend a designated amount of after-school practices, make a team and maintain academic eligibility throughout the competition season.**



# LEADERSHIP

## Peer Assistance and Leadership (PALs) I-2

**2 semesters/1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** PAL1-2

**Prerequisite:** Teacher Approval.

Peer Assistance and Leadership courses utilize the potential of youth to make a difference in their lives, schools and communities. PAL® nurtures and builds capacities to help youth develop protective factors, helping them to achieve school and social successes which lead to a productive life.

# SPORTS MEDICINE

## Sports Medicine 1

**2 semesters/1 credit/ 1 period**

**Grade Placement:** 10-12    **Course Code:** 16612

**Prerequisite:** Must have the approval of the Licensed Athletic Trainer supervising the student athletic training program.

It is a class to be offered to high school students to provide an opportunity for the study and application of the components of sports medicine. SM I can be a method to recruit athletic training students and educate students about sports medicine careers.

## Sports Medicine 2

**2 semesters/1 credit/ 1 period**

**Grade Placement:** 11-12    **Course Code:** 16613

**Prerequisite:** Must have the approval of the Licensed Athletic Trainer supervising the student athletic training program.

This course is designed for students in the student athletic training program, and provides a more in-depth study and application of the components of sports medicine. Individualized and independent assignments will be included in this course. This course will involve outside-of-class time homework and time required working with athletes and athletic teams.

## Sports Medicine 3

**2 semesters/1 credit/ 1 period**

**Grade Placement:** 12    **Course Code:** 16614

**Prerequisite:** Must have the approval of the Licensed Athletic Trainer supervising the student athletic training program.

The course will provide opportunities for the advanced students in the sports medicine programs to research, investigate, prepare, and present case studies, research projects, visual poster presentations, and multimedia presentations on instructor approved topics. Sports Medicine III will provide the junior/senior level athletic training students the opportunity to explore a healthcare career of their choice.

# **TULOSO-MIDWAY ISD PROGRAMS OF STUDY**



## BUSINESS & INDUSTRY ENDORSEMENT

<div style="text-align: center;"> <h3>Business &amp; Industry</h3> <p>Below is a comprehensive listing of options made available by the State: Includes courses directly related to: Plant Science; Marketing; Business; Graphic Design; Welding; Robotics; and Animal Science.</p> </div>	<p style="text-align: center;"><b>CURRICULUM REQUIREMENTS</b></p> <p style="text-align: center;"><i>Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD</i></p>
	<p>Students must complete one of the following options for the Business &amp; Industry Endorsement:</p> <ul style="list-style-type: none"> <li>A. A coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster, including at least one advanced CTE course. The final course in the sequence must be obtained from one of the CTE career clusters: <ul style="list-style-type: none"> <li>(i) Agriculture, Food, &amp; Natural Resources; or (ii) Architecture &amp; Construction; or</li> <li>(iii) Arts, Audio/Visual Technology, &amp; Communications; or</li> <li>(iv) Business Management &amp; Administration; or</li> <li>(v) Finance; or</li> <li>(vi) Hospitality &amp; Tourism; or</li> <li>(vii) Information Technology; or</li> <li>(viii) Manufacturing; or</li> <li>(ix) Marketing; or</li> <li>(x) Transportation, Distribution, &amp; Logistics; or (xi) Business &amp; Industry-related Career Preparation I or II; or</li> </ul> </li> <li>B. Courses required to complete a TEA-designated program of study related to business and industry; or</li> <li>C. Four English elective credits to include three levels in one of the following areas: <ul style="list-style-type: none"> <li>a. (i)* Public speaking; or</li> <li>b. (ii) Debate; or</li> <li>c. (iii)* Advanced broadcast journalism; or</li> <li>d. (iv) Advanced journalism: newspaper; or</li> <li>e. (v) Advanced journalism: yearbook; or</li> </ul> </li> <li>D. A coherent sequence of three additional credits from no more than two of the categories or disciplines represented by subparagraphs (A), (B), (C), and (D) of this paragraph.</li> </ul>

<p style="text-align: center;"><b>BUSINESS &amp; INDUSTRY REQUIRED COURSES</b></p> <p style="text-align: center;">FHSP coursework, 4th Math credit, 4th Science credit, plus one of the following pathways below:</p>	
<p style="text-align: center;"><b>CTE</b></p> <p style="text-align: center;">4 credits that follow a Business &amp; Industry Program of Study.</p>	<p style="text-align: center;"><b>English: Debate</b></p> <p style="text-align: center;">4 credits in English electives to include 3 levels of Debate/ Oral Interpretation</p>
1st CTE credit	4th English Option or English Elective
2nd CTE credit	Debate 1
3rd CTE credit	Debate 2
4th CTE credit	Debate 3



# ANIMATION



The **Animation Program** consists of computer images and animations created with digital imaging software. Students will demonstrate creative thinking, develop innovative strategies, and use communication tools in order to work effectively with others and independently. Students in this program will produce various real-world projects and animations.

**Degree/ Credential Offered:** Adobe Certified Professional – Illustrator; Adobe Certified Professional – Animate

## Principles of Arts, Audio/Video Technology, and Communications (AAVTC)

**2 semesters/1 credit/ 1 period (L1)**

**Grade Placement:** 9 **Course Code:** 16409

**Prerequisite:** None.

This course gives you an in-depth introduction to the Arts, Audio/Video Technology, and Communications career cluster. In addition to exploring the pathways in the cluster and the careers available in each pathway, it provides practical experience with the technology applications you will need to pursue these careers, including Adobe Illustrator for graphic design and illustration, Photoshop for photography editing, and Premiere Pro for audio and video editing.

## Animation 1

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 10-11 **Course Code:** 16410

**Prerequisite:** Principles of AAVTC.

Students will develop technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications careers cluster and develop an understanding of the history and current techniques of the animation industry. This course fulfills technology requirement for graduation.

## Animation 2

**2 semesters/1 credit/ 1 period (L3)**

**Grade Placement:** 11-12 **Course Code:** 16411

**Prerequisite:** Animation 1.

**Certifications offered in this course.**

Students will develop advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster and will be expected to create two- and three-dimensional animations.

## Digital Art & Animation

**2 semesters/1 credit/ 1 period (L4)**

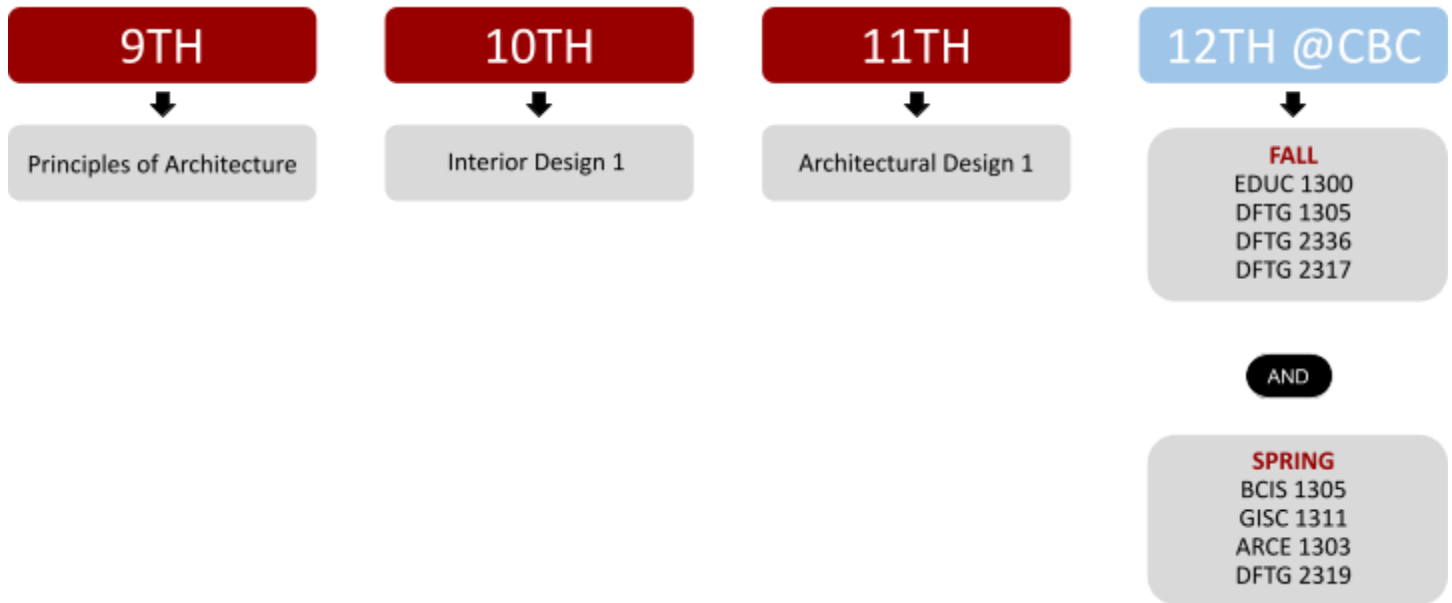
**Grade Placement:** 10-12 **Course Code:** 15704

**Prerequisite:** Animation 2.

**Certifications offered in this course.**

This course consists of computer images and animations created with digital imaging software. Students will demonstrate creative thinking, develop innovative strategies, and use communication tools. This course has applications in careers, including graphic design, animation, illustration, script writing, storyboarding, as well as the magazine, television, and film. Students will produce various real-world projects and animations. This course fulfills the fine arts requirement for graduation.

## ARCHITECTURAL DESIGN *WARPATH ACADEMY*



The **Architectural Design** Program prepares students for entry-level careers as architectural designers, drafters, or technicians. Courses within the program include content in history of architecture, computer-aided design, construction materials and methods, and color/design theory. Students will take courses their senior year with Coastal Bend College.

**Degree/ Credential Offered:** Autodesk Certified User – AutoCAD; Autodesk Certified User – Revit Architecture; NCCER CORE Certification, Level 1 Engineering Design Certificate

### Principles of Architecture

**2 semesters/1 credit/ 1 period (L1)**

**Grade Placement:** 9-10 **Course Code:** 16623

**Prerequisite:** None.

Principles of Architecture provides an overview to the various fields of architecture, interior design, and construction management. Achieving proficiency in decision making and problem solving is an essential skill for career planning and lifelong learning. Students use self-knowledge, education, and career information to set and achieve realistic career and educational goals.

### Interior Design 1

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 10-11 **Course Code:** 15925

**Prerequisite:** Principles of Architecture.

Interior Design I is a technical course that addresses psychological, physiological, and sociological needs of individuals by enhancing the environments in which they live and work. Students will skills related to interior and exterior environments, construction, and furnishings to make wise consumer decisions, increase productivity, promote sustainability, and compete in industry.

### **Architectural Design 1**

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 10-11 **Course Code:** 16625

**Prerequisite:** Interior Design 1.

**Certifications offered in this course.**

In Architectural Design I, students will gain knowledge and skills needed to enter a career in architecture or construction or prepare a foundation toward a postsecondary degree in architecture, construction science, drafting, interior design, or landscape architecture. Architectural Design I include the knowledge of the design, design history, techniques, and tools related to the production of drawings, renderings, and scaled models for nonresidential or residential architectural purposes.

### **ARCE 1303 - Architectural Materials & Methods**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 11-12 **Course Code:** CBARCE1303

**Prerequisite:** No TSI Requirements.

Properties, specifications, vendor references, and uses of materials as related to architectural systems of structures.

### **BCIS 1305 - Business Computer Applications**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12 **Course Code:** CBBIS1305

**Prerequisite:** No TSI Requirements.

Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

### **DFTG 1305 - Technical Drafting**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 11-12 **Course Code:** CBDFTG1305

**Prerequisite:** No TSI Requirements.

An introduction to reading, interpreting, and developing technical drawings, including the principles of drafting and computer-aided design.

### **DFTG 2317 - Descriptive Geometry**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 11-12 **Course Code:** CBDFTG2317

**Prerequisite:** No TSI Requirements.

Graphical solutions to problems involving points, lines, and planes in space.

### **DFTG 2319 - Intermediate Computer-Aided Drafting**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11 **Course Code:** CBDFTG2319

**Prerequisite:** No TSI Requirements.

A continuation of practices and techniques used in basic computer-aided drafting including the development and use of prototype drawings, construction of pictorial drawings, extracting data, and basics of 3D.

### **DFTG 2336 Computer-Aided Programming**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 11-12 **Course Code:** CBDFTG23360

**Prerequisite:** No TSI Requirements.

Use of programming language to enhance CAD software.

### **EDUC 1300 - Learning Frameworks**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12 **Course Code:** CBEDUC1300

**Prerequisite:** No TSI Requirements.

This course is required for all first-time college students at Coastal Bend College. A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies.

### **GISC 1311 - Introduction to Geographic Information Systems**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 11-12 **Course Code:** CBGISC1311

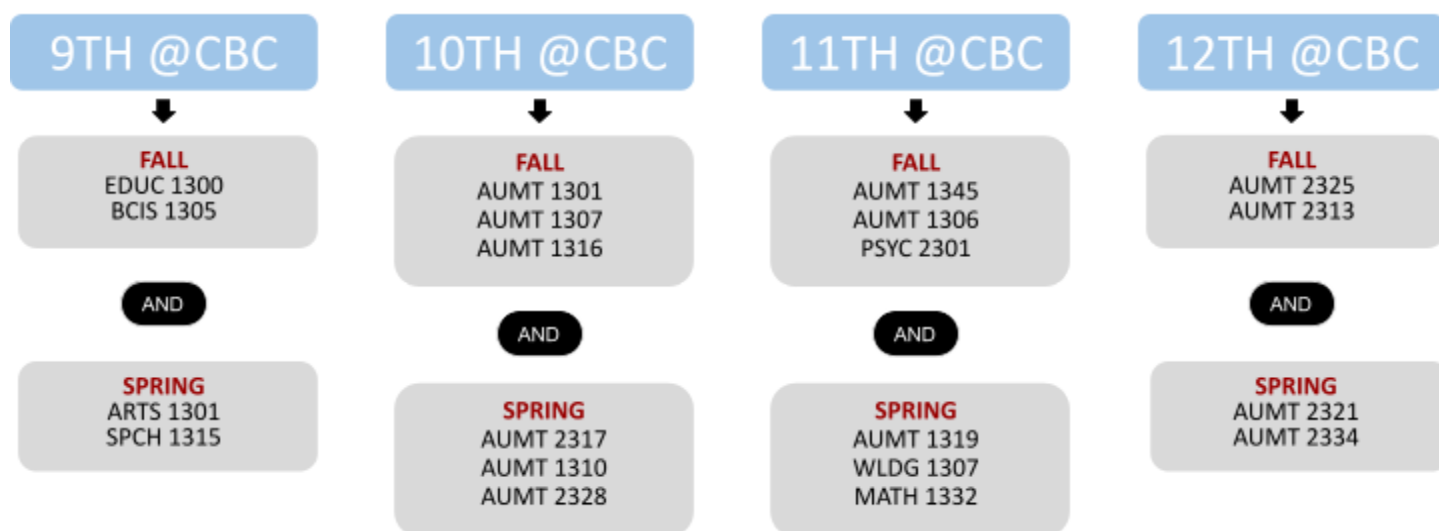
**Prerequisite:** No TSI Requirements.

This course is required for all first-time college students at Coastal Bend College. A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies.





# AUTOMOTIVE *WARPATH* ACADEMY



The **Automotive** program is in partnership with Coastal Bend College. Students at Tuloso-Midway High School will begin attending college courses with Coastal Bend College their freshman year. To see a sample graduation plan, please go to the [Graduation Plan for Associates of Applied Science in Automotive Technology](#)

**Degree/Credential Offered:** Associates of Applied Science in Automotive Technology

## ARTS 1301 - Art Appreciation

1 semester/1 credit/ 1 period

Coastal Bend College (3 college credits)

Grade Placement: 9-11      Course Code: CBARTS1301

**Prerequisite:** No TSI Requirements.

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts

## AUMT 1301 - Introduction and Theory of Automotive Technology

1 semester/1 credit/ 1 period

Coastal Bend College (3 college credits)

Grade Placement: 9-12      Course Code: CBAUMT1301

**Prerequisite:** No TSI Requirements.

An introductory overview of the automotive service industry including history, safety practices, shop equipment and tools, vehicle subsystems, service publications, professional responsibilities, and automobile maintenance.

## BCIS 1305 - Business Computer Applications

1 semester /1 credits/ 1 period

Coastal Bend College (3 college credits)

Grade Placement: 9-11      Course Code: CBBIS1305

**Prerequisite:** No TSI Requirements.

Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

## AUMT 1306 - Automotive Engine Removal and Installation

1 semester/1 credit/ 1 period

Coastal Bend College (3 college credits)

Grade Placement: 9-12      Course Code: CBAUMT1306

**Prerequisite:** No TSI Requirements.

Fundamentals of engine inspection, removal and installation procedures. May be taught manufacturer specific

**AUMT 1307 - Automotive Electrical Systems****1 semester/1 credit/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBAUMT1307****Prerequisite:** No TSI Requirements.

An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, and repair of, charging and starting systems, and electrical accessories. Emphasis on electrical principles schematic diagrams, and service manuals. May be taught manufacturer specific.

**AUMT 1310 - Automotive Brake Systems****1 semester/1 credit/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBAUMT1310****Prerequisite:** No TSI Requirements.

Operation and repair of drum/disc type brake systems. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught with manufacturer specific instructions.

**AUMT 1316 - Automotive Suspension and Steering Systems****1 semester/1 credit/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBAUMT1316****Prerequisite:** No TSI Requirements.

Diagnosis and repair of automotive suspension and steering systems including electronically controlled systems. Includes component repair, alignment procedures and tire and wheel service. May be taught manufacturer specific.

**AUMT 1319 - Automotive Engine Repair****1 semester/1 credit/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBAUMT1319****Prerequisite:** No TSI Requirements.

Fundamentals of engine operation, diagnosis and repair. Emphasis on identification, inspection, measurements, and disassembly, repair, and reassembly of the engine. May be taught manufacturer specific.

**AUMT 1345 - Automotive Climate Control Systems****1 semester/1 credit/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBAUMT1345****Prerequisite:** No TSI Requirements.

Diagnosis and repair of manual/electronic climate control systems. Includes the refrigeration cycle and EPA guidelines for refrigerant handling. May be taught manufacturer specific.

**AUMT 2313 - Automotive Drive Train and Axles****1 semester/1 credit/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBAUMT2313****Prerequisite:** No TSI Requirements.

A study of automotive clutches, clutch operation devices, manual transmissions/transaxles, and differentials with emphasis on diagnosis and repair. May be taught with manufacturer specific instructions.

**AUMT 2317 - Automotive Engine Performance Analysis I****1 semester/1 credit/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBAUMT2317****Prerequisite:** No TSI Requirements.

Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific.

**AUMT 2321 - Automotive Electrical Diagnosis and Repair****1 semester/1 credit/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBAUMT2321****Prerequisite:** No TSI Requirements.

Repair of automotive electrical subsystems, lighting, instrumentation, and accessories. Emphasis on accurate diagnosis and proper repair methods using various troubleshooting skills and techniques. May be taught manufacturer specific.

### **AUMT 2325 - Automotive Automatic Transmission and Transaxle**

**1 semester/1 credit/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBAUMT2325

**Prerequisite:** No TSI Requirements.

A study of the operation, hydraulic circuits and electronic controls of modern automatic transmissions and automatic transaxles. Diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and repair techniques. May be taught manufacturer specific.

### **AUMT 2328 - Automotive Service**

**1 semester/1 credit/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBAUMT2328

**Prerequisite:** No TSI Requirements.

Mastery of automotive service including competencies covered in related courses. May be taught manufacturer specific.

### **AUMT 2334 - Automotive Engine Performance Analysis II**

**1 semester/1 credit/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBAUMT2334

**Prerequisite:** No TSI Requirements.

Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems. Includes use of advanced engine performance diagnostic equipment. May be taught manufacturer specific.

### **EDUC 1300 - Learning Frameworks**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBEDUC1300

**Prerequisite:** No TSI Requirements.

This course is required for all first-time college students at Coastal Bend College. A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies.

### **MATH 1332 - Contemporary Mathematics**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBMATH1332

**Prerequisite:** TSI Math score of 343 or above.

Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included.

### **PSYC 2301 - General Psychology**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBPSYC2301

**Prerequisite:** TSI Reading.

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.

### **SPCH 1315 - Public Speaking**

**1 semester/0.5 credit/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBSPCH1315

**Prerequisite:** No TSI Requirements.

Application of communication theory and practice to the public speaking context, with emphasis on audience analysis, speaker delivery, ethics of communication, cultural diversity, and speech organizational techniques to develop students' speaking abilities, as well as ability to effectively evaluate oral presentations.

### **WLDG 1307 - Introduction to Welding Using Multiple Processes**

**1 semester/1 credit/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBWLDG1307

**Prerequisite:** No TSI Requirements.

Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW).

## Graduation Plan for Associated of Applied Science in Automotive Technology

9th Grade		10th Grade				
	M-F at TMHS		FALL		SPRING	
	Fall	Spring	M/W at CBC	T/R/F at TMHS	M/W at CBC	T/R/F at TMHS
	English 1	English 1 Rem.	AUMT 1301 AUMT 1307 AUMT 1316	Sociology APEX Spanish 1 APEX	AUMT 2317 AUMT 1310 AUMT 2328	Government APEX Spanish 2 APEX
	Algebra 1	Algebra 1 Rem.				
	World Geo. APEX PE	World History APEX Health APEX PE				
	BCIS 1305	ART 1301	English 2		English 2	
	EDUC 1300	SPCH 1315	Geometry		Geometry	
	Biology		Chemistry		Chemistry	

11th Grade				12th Grade							
	FALL			SPRING			FALL			SPRING	
	T/R at CBC	M/W/F at TMHS		T/R at CBC	M/W/F at TMHS		T/R at CBC	M/W/F at TMHS		T/R at CBC	M/W/F at TMHS
	AUMT 1345 AUMT 1306	PSYC 2301  Environemental Systems APEX		AUMT 1319 WLDG 1307	MATH 1332  Economics APEX		AUMT 2325 AUMT 2313	Work-Based Learning		AUMT 2321 AUMT 2334	Work-Based Learning
	English 3			English 3			College Prep English			College Prep English	
	Algebra 2			Algebra 2			College Prep Mathematics			College Prep Mathematics	
	US History			US History			Earth & Space			Earth & Space	

## A/V PRODUCTIONS *BROADCASTING*



The **A/V Productions** program is geared towards students interested in Band, Theater, Choir, and Broadcasting. This program will give students the opportunity to see behind the scenes of audio and video productions. Students will learn A/V concepts, develop advanced knowledge, and participate in pre-production, production, and post-production events.

**Degree/ Credential Offered:** Adobe Certified Professional – Adobe Premiere Pro

**Principles of Arts, Audio/Video Technology, and Communications (AAVTC)**  
**2 semesters/1 credit/ 1 period** (L1)  
**Grade Placement:** 9      **Course Code:** 16409

**Prerequisite:** None.

This course gives you an in-depth introduction to the Arts, Audio/Video Technology, and Communications career cluster. In addition to exploring the pathways in the cluster and the careers available in each pathway, it provides practical experience with the technology applications you will need to pursue these careers, including Adobe Illustrator for graphic design and illustration, Photoshop for photography editing, and Premiere Pro for audio and video editing.

**Audio/Video Production 2**  
**2 semesters/1 credit/ 1 period** (L3)  
**Grade Placement:** 11-12      **Course Code:** 16411

**Prerequisite:** Audio/ Video Production 1.

Students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, and critical-thinking, problem-solving, and collaborative skills. **This course will write and produce the daily announcements for TMHS.**

**Audio/Video Production 1**  
**2 semesters/1 credit/ 1 period** (L2)  
**Grade Placement:** 10-11      **Course Code:** 16412

**Prerequisite:** Principles of AAVTC.

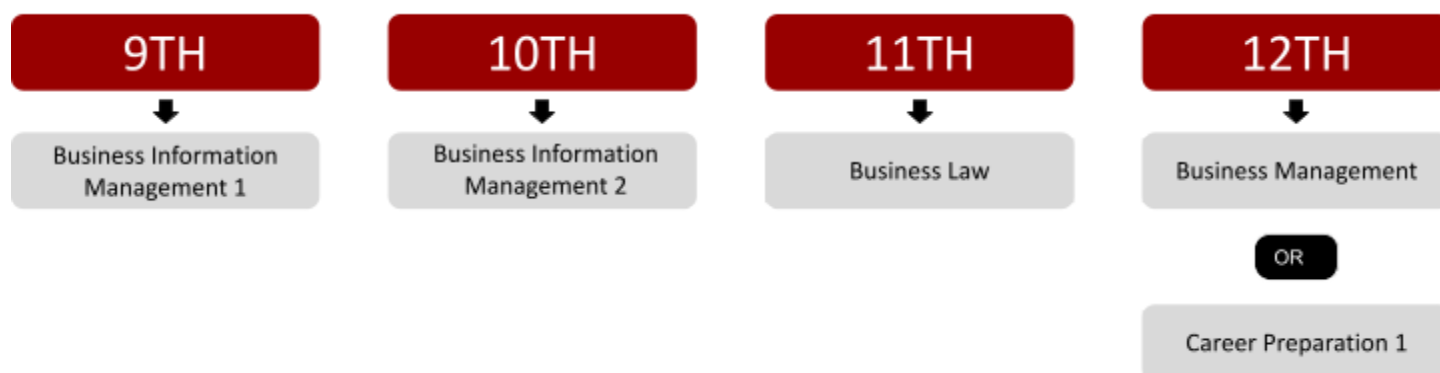
In addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video products.

**Practicum in Audio/Video Production (Weighted)**  
**2 semesters/2 credit/ 2 period** (L4)  
**Grade Placement:** 11-12      **Course Code:** 16414

**Prerequisite:** Audio/Video Production 2.

This course may be implemented in an advanced audio/video or audio format. This class will write and produce the daily announcements for TMHS and help with other TMISD broadcasting needs.

# BUSINESS



The **Business** program is geared towards students interested in careers in business such as management, staffing, human resources, or law. Students will learn how to plan, organize, and run a business successfully. Students will have access to professional internships their senior year for work-based learning experiences.

**Degree/ Credential Offered:** Microsoft Office Specialist - Expert Word; Microsoft Office Specialist - Expert Excel

## Business Information Management (BIM) 1

**2 semesters/1 credit/ 1 period** (L1)

**Grade Placement:** 9-10 **Course Code:** 15703

**Prerequisite:** None.

Students apply technical skills to address business applications of emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.

## Business Information Management (BIM) 2

**2 semesters/1 credit/ 1 period** (L2)

**Grade Placement:** 10-11 **Course Code:** 16803

**Prerequisite:** BIM 1.

**Certification offered in this course.**

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.

## Business Law

**2 semesters/1 credit/ 1 period** (L2)

**Grade Placement:** 10-12 **Course Code:** 16801

**Prerequisite:** Must Follow Business Management Pathway.

Students address business applications of contemporary legal issues such as legal environment, ethics, torts, contracts, negotiable financial instruments, personal property, sales, warranties, and business organizations.

## Business Management

**2 semesters/1 credit/ 1 period** (L3)

**Grade Placement:** 10-11 **Course Code:** 16802

**Prerequisite:** Must Follow Business Management Pathway.

Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate management decisions.

## Career Preparation 1

**2 semesters/2 credit/ 3 period** (L4)

**Grade Placement:** 11-12 **Course Code:** 16219

**Prerequisite:** Must Follow Business Management Pathway.

Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Students incorporate a broad base of knowledge to make appropriate management decisions. Students must be 16 years old prior to the first day of school. Students must carry at least 10 work hours per week for this 2-credit course. **Possible Internships & or job Placement assistance.**

# COSMETOLOGY WARPATH ACADEMY

In the **Cosmetology Program**, students will receive cosmetology training, providing skills and knowledge for entry level employment as a Cosmetologist. Courses include: Orientation, Fundamentals, Artistry of Hair, Hair Color Theory and Chemistry, Chemical Reformation, Nail Technology, Skin/Facial Theory, Hair Design, Salon Development, and Preparation for Cosmetology Commission Examination.

Graduates from the program will receive a Cosmetology Level I Certificate of Achievement upon satisfactory completion of all courses and a mock exam (in the classroom practice exam) with a grade of 70 or higher. Capstone will be administered upon completion of 1,275 clock hours as required by Texas Department of Licensing and Regulation. 34 college credit hours must be obtained for the Level I Certificate.

**Students who wish to complete this program of study MUST follow the degree plan below.** During the student's senior year, he/she will attend classes on campus at Coastal Bend College, Monday through Friday from 8:00 AM to 5:00 PM, transportation provided. They will also be expected to complete Health and Speech through APEX in order to graduate.

**Degree/ Credential Offered:** Cosmetology Level 1 Certificate; Cosmetology Operator License

9th Grade		10th Grade	11th Grade		12th Grade	
FALL	SPRING	ALL YEAR	FALL	SPRING	FALL	SPRING
English 1	English 1 Rem	English 2	English 3		CSME 1551 CSME 2204 CSME 1401 CSME 1405 CSME 1445	CSME 1453 CSME 1330 CSME 1447 CSME 2430 CSME 2441
Algebra 1	Algebra 1 Rem	Aquatic Science	Algebra 2			
		Geometry	Government	Economics		
Biology		US History	CPC English			
World Geo APEX	World Hist APEX	Chemistry	Earth & Space			
PE		Elective	CPC Math			
Spanish 1		PIT	Aquatic Science		Health APEX	Speech APEX
Spanish 2		Art 1				

## CSME 1330 - Orientation to Nail Technology

Coastal Bend College (3 college credits)

Grade Placement: 12 Course Code: CBCSME1303

**Prerequisite:** No TSI Requirements.

An overview of the fundamental skills and knowledge necessary for the field of nail technology.

## CSME 1401 - Orientation to Cosmetology

Coastal Bend College (3 college credits)

Grade Placement: 12 Course Code: CBCSME1401

**Prerequisite:** No TSI Requirements.

An overview of the skills and knowledge necessary for the field of cosmetology.

## CSME 1405 - Fundamentals of Cosmetology

Coastal Bend College (3 college credits)

Grade Placement: 12 Course Code: CBCSME1405

**Prerequisite:** No TSI Requirements.

A course in the basic fundamentals of cosmetology. Topics include safety and sanitation, service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling, and comb out.

## CSME 1445 - Principles of Facial & Skin Care II

Coastal Bend College (3 college credits)

Grade Placement: 12 Course Code: CBCSME1445

**Prerequisite:** No TSI Requirements.

In-depth coverage of the theory and practice of skin care, facials, and cosmetics.



### **CSME 1447 - Principles of Skin Care/Facials and Related Theory**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 12      **Course Code:** CBCSME1447

**Prerequisite:** No TSI Requirements.

In-depth coverage of the theory and practice of skin care, facials, and cosmetics.

### **CSME 1453 - Chemical Reformation and Related Theory**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 12      **Course Code:** CBCSME1453

**Prerequisite:** No TSI Requirements.

Presentation of the theory and practice of chemical reformation including terminology, application, and workplace competencies.

### **CSME 1551 - Artistry of Hair, Theory and Practice**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 12      **Course Code:** CBCSME1551

**Prerequisite:** No TSI Requirements.

Instruction in the artistry of hair design. Topics include theory, techniques, and application of hair design.

### **CSME 2204 - Introduction to the Theory and Chemistry of Hair Color**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 12      **Course Code:** CBCSME2204

**Prerequisite:** No TSI Requirements.

The introduction of basic theory and chemistry of hair color. Topics include the law of color, terminology and chemical composition of hair color products.

### **CSME 2430 - Nail Enhancement**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 12      **Course Code:** CBCSME2430

**Prerequisite:** No TSI Requirements.

A course in the theory, application, and related technology of nail enhancements.

### **CSME 2441 - Preparation for the State Licensing Examination**

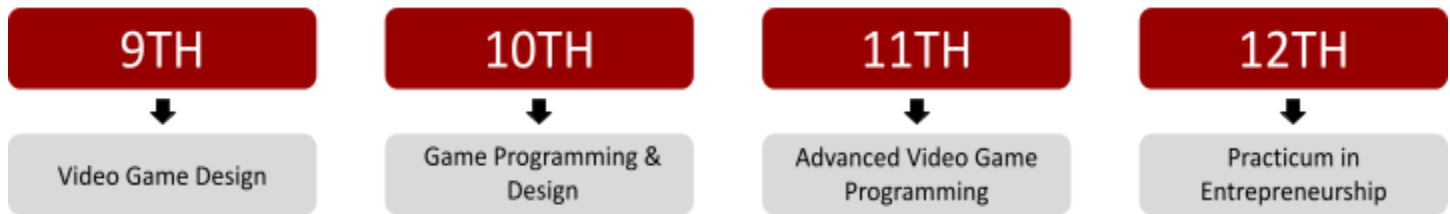
**Coastal Bend College (3 college credits)**

**Grade Placement:** 12      **Course Code:** CBCSME2441

**Prerequisite:** No TSI Requirements.

Preparation for the state licensing examination.

# GAME DESIGN



The **Game Design** program is built on student creativity and design with a lot of programming and game development thrown into the mixture. Students will work through designing a game, programming it, and then on to how to develop their own business in game development.

**Degree/ Credential Offered:** Adobe Certified Associate – Photoshop; Adobe Certified Associate – Illustrator

## Video Game Design

**2 semesters/1 credit/ 1 period (L1)**

**Grade Placement:** 9-10 **Course Code:** 16415

**Prerequisite:** None.

Allows students to explore one of the largest industries in the global marketplace and the new careers it provides in the field of technology. Students will learn gaming, computerized gaming, evolution of gaming, artistic aspects of perspective, design, animation, technical concepts of collision theory, and programming logic. Students will participate in a simulation of a real video game design team while developing technical proficiency in constructing an original game design blueprint.

## Advanced Video Game Programming

**2 semesters/1 credit/ 1 period (L3)**

**Grade Placement:** 11-12 **Course Code:** 16417

**Prerequisite:** Game Programming and Design.

**Certifications offered in this course.**

They will be doing mobile application design and programming using Java and Eclipse for Android devices. They will learn basic Java programming and be work with Android Studio to develop apps. Using Unity as an introduction to 3D game development, students will learn: object-oriented programming; game development skills with programs; 3D modeling with Blender; image manipulation with GIMP; concepts related to design process; and the ability to communicate and collaborate on group-based projects.

## Game Programming and Design

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 10-11 **Course Code:** 15727

**Prerequisite:** Video Game Design.

Video Game Programming expands on the foundation created in Video Game Design through programming languages such as: C# programming, XNA game studio, Java, and Android App. In this course, students will investigate the inner workings of a fully functional role-playing game (RPG) by customizing playable characters, items, maps, and chests and eventually applying customizations by altering and enhancing the core game code.

## Practicum in Entrepreneurship

**2 semesters/2 credits/ 2 periods (L4)**

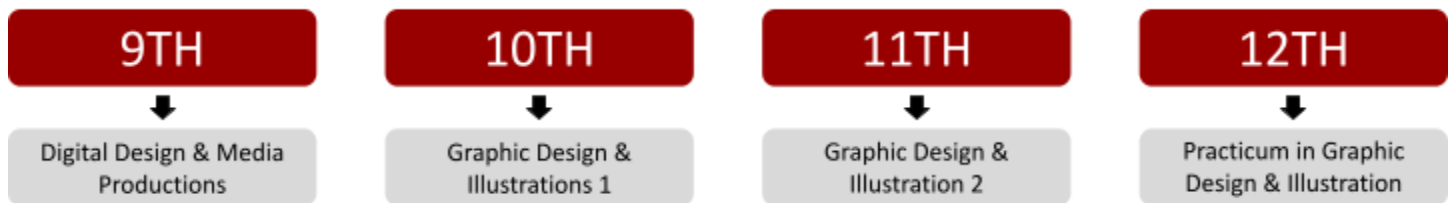
**Grade Placement:** 11-12 **Course Code:** 15728

**Prerequisite:** Taken while on the Game Design Program.

**Certifications offered in this course.**

Provides opportunities to apply knowledge and experiences to real-world business problems and opportunities, while expanding their skill sets and professional relationships as a business owner vs. experienced employee. Allows for an entrepreneurial career in an area of interest in their career choice and build on and apply knowledge and skills. Students use personal and interpersonal skills to strengthen performance in the workplace and to transition to the next stage of life.

# GRAPHIC DESIGN



The **Graphic Design** Program provides fundamental concepts, practices and theories of graphic design. Students will obtain hands-on experience working on the yearbook and other projects. Students will improve their keyboarding skills, computer literacy, experience with electronic equipment, communication skills and professionalism. Graphic Design students will focus on creating quality photographs, editing photos, and creating vector artwork. They will develop a portfolio to advance their skills.

**Degree/ Credential Offered:** Adobe Certified Professional – Photoshop

## Digital Design & Media Productions

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 9-10 **Course Code:** 16419

**Prerequisite:** None.

Digital Design & Media Productions is the introduction to the fundamental concepts, practices and theories of graphic design. Students will obtain hands-on experience working on the school yearbook and other projects on campus. Students enrolled in this program will improve their keyboarding skills, computer literacy and experience with electronic equipment, communication skills and professional development.

## Graphic Design & Illustrations 1

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 10-11 **Course Code:** 15729

**Prerequisite:** Digital Design & Media Productions.

**Certifications offered in this course.**

In Graphic Design & Illustration 1, students have the opportunity to earn Industry Based Certifications that will help students stand out in interviews and gain confidence in a subject area. In addition, Graphic Design students will be expected to develop an understanding of the graphic arts industry with a focus on creating quality photographs, editing photos, and creating vector artwork.

## Graphic Design & Illustrations 2

**2 semesters/1 credit/ 1 period (L3)**

**Grade Placement:** 11-12 **Course Code:** 15730

**Prerequisite:** Graphic Design & Illustrations 1.

**Certifications offered in this course.**

Design portfolios are expanded upon and improved in this third year of our program. More time is spent learning advanced concepts in illustration and the advertising and media business as well as new software programs while continuing to hone skills in image editing and digital photography. Students will be expected to develop an understanding of the graphic arts industry with a focus on creating magazine layouts, create content and become layout editors.

## Practicum in Graphic Design & Illustrations

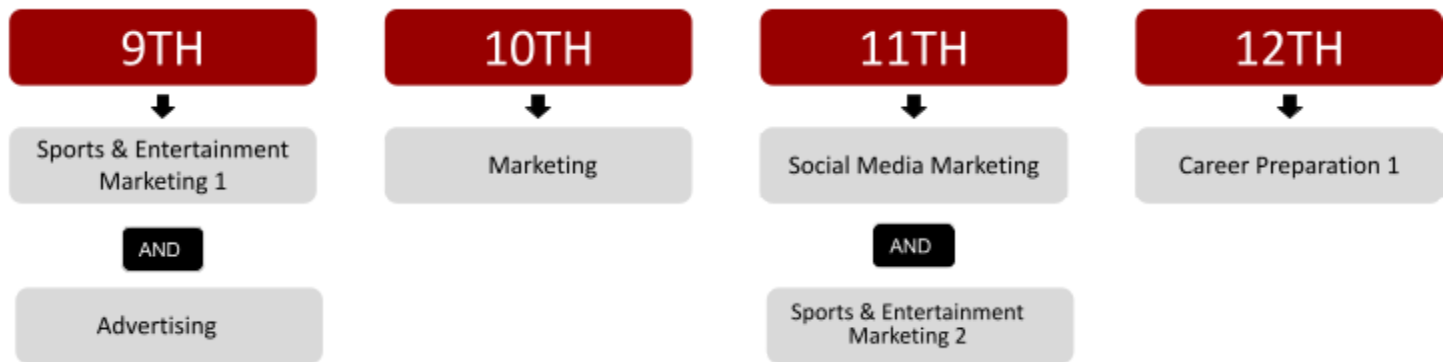
**2 semesters/2 credit/ 2 period (L4)**

**Grade Placement:** 11-12 **Course Code:** 15731

**Prerequisite:** Graphic Design & Illustrations 2.

This course is meant to serve students interested in further development of a professional portfolio in addition to further development of skills and technical knowledge. Students will be expected to further develop knowledge and awareness of the industry of graphic design and illustration. Instruction may be delivered through lab-based classroom experiences and/or career preparation opportunities.

# MARKETING



The **Marketing** program is designed to cover all facets of the marketing industry. The courses will cover sports, entertainment, advertising, and social media marketing. Students who complete this program will gain knowledge and certifications in the marketing field.

**Degree/ Credential Offered:** Student Social Media Marketing Certification

## Sports & Entertainment Marketing 1

1 semester/ 0.5 credit/ 1 period (L2)

Grade Placement: 9-10 Course Code: 16212

**Prerequisite:** None.

The course covers marketing concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and

## Advertising

1 semester/ 0.5 credit/ 1 period (L3)

Grade Placement: 9-10 Course Code: 16214

**Prerequisite:** None.

Students will gain knowledge of techniques used in current advertising. This includes print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising. The course provides an overview of how communication tools can be

## Marketing

2 semesters/ 1 credit/ 1 period (L2)

Grade Placement: 9-10 Course Code: 16213

**Prerequisite:** Sports & Entertainment Marketing 1.

Marketing explores the seven core functions of marketing. Marketing planning, Marketing-information management, Pricing, Product/service management, Promotion, Channel management, and Selling.

## Social Media Marketing

1 semester/ 0.5 credit/ 1 period (L3)

Grade Placement: 10-11 Course Code: 16215

**Prerequisite:** Marketing.

**Certifications offered in this course.**

Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. Students will manage a

## **Sports & Entertainment Marketing 2**

**1 semester/ 0.5 credit/ 1 period (L3)**

**Grade Placement:** 9-10      **Course Code:** 16216

**Prerequisite:** Sports & Entertainment Marketing 1.

Sports and Entertainment Marketing II is an advanced course designed to build upon students' prior knowledge of sports and entertainment marketing. The course also supports career development skills and explores career option. Students will investigate the components of branding, sponsorships and endorsements.

## **Career Preparation 1**

**2 semesters/ 2 credit/ 3 periods (L4)**

**Grade Placement:** 11-12      **Course Code:** 16219

**Prerequisite:** Marketing Program of Study.

Students analyze the primary functions of management and leadership, which are planning, organizing, staffing, directing or leading, and controlling. Students incorporate a broad base of knowledge to make appropriate management decisions. Students must be 16 years old prior to the first day of school. Students must carry at least 10 work hours per week for this 2-credit course. Possible Internships & or job Placement assistance.

# PLANT SCIENCE



The **Plant Science Program** is designed to provide students with experiences in floral design, greenhouse management and plant production. Students completing the program will obtain certifications and practicum opportunities.

**Degree/ Credential Offered:** Texas State Florists' Association Level 1-Knowledge Base; Texas State Florists' Association, Level 1

## Floral Design

**2 semesters/ 1 credit/ 1 period** (L3)

**Grade Placement:** 9-10 **Course Code:** 15621

**Prerequisite:** None.

**Certifications offered in this course.**

This course will prepare students for careers in floral design. This course will allow students to attain academic skills and knowledge as well as technical knowledge and skills related to horticultural systems and develop knowledge and skills regarding careers and industry expectations. This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design and develop an understanding of the management of floral enterprises.

## Greenhouse Operation and Production

**2 semesters/ 1 credit/ 1 period** (L2)

**Grade Placement:** 10-11 **Course Code:** 15628

**Prerequisite:** Floral Design.

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. 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.

## Advanced Floral Design (Weighted)

**2 semesters/ 1 credit/ 1 period** (L4)

**Grade Placement:** 10-11 **Course Code:** 15622

**Prerequisite:** Floral Design.

**Certifications offered in this course.**

In this course, students build on the knowledge from Principles and Elements of Floral Design and are introduced to more advanced floral design concepts, with an emphasis on specialty designs and specific occasion planning.

## Advanced Plant & Soil Science (Weighted)

**2 semesters/1 credit/ 1 period** (L4)

**Grade Placement:** 10-12 **Course Code:** 15620

**Prerequisite:** Biology, Chemistry, & Physics and Floral Design

**Certifications offered in this course.**

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace.

## **Practicum in AFNR - Plant Science**

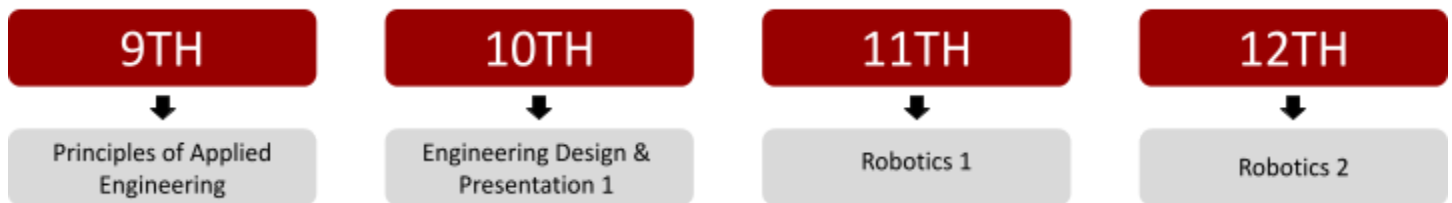
**2 semesters/1 credit/ 1 period** (L 4)

**Grade Placement:** 11-12    **Course Code:** 15623

**Prerequisite:** Greenhouse Operation and Production.

Students will gain hands on work experience in floral and plant science careers. Using a school based enterprise these classes will run a full service floral shop and greenhouse.

# ROBOTICS



The **Robotics** program is designed to offer students the chance to design, build, and solve real world problems. Robotics 2 offers a competitive component for students interested in robotics competition with VEX Robotics.

**Degree/ Credential Offered:** Autodesk Certified User – AutoCAD; Autodesk Certified User – Inventor

## Principles of Applied Engineering

**2 semesters/1 credit/ 1 period (L1)**

**Grade Placement:** 9-10 **Course Code:** 16430

**Prerequisite:** None.

This course 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.

## Robotics 1

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 11-12 **Course Code:** 16434

**Prerequisite:** None.

In Robotics I, students will transfer academic skills to component designs in a project-based environment through implementation of the design process. Students will build prototypes or use simulation software to test their designs. Additionally, students will explore career opportunities, employer expectations, and educational needs in the robotic and automation industry.

## Engineering Design and Presentation I

**2 semesters/1 credit/ 1 period (L3)**

**Grade Placement:** 10-11 **Course Code:** 16431

**Prerequisite:** Algebra 1.

**Certifications offered in this course.**

Careers in Architecture, Engineering and Construction require a solid foundation in measurement, graphic/verbal communication, and software. Students enrolled in the Engineering Design class will demonstrate the ability to meet industry's standards utilizing world class software such as Revit, Inventor, AutoCAD and MicroStation.

## Robotics 2 (Weighted)

**2 semesters/1 credit/ 1 period (L3)**

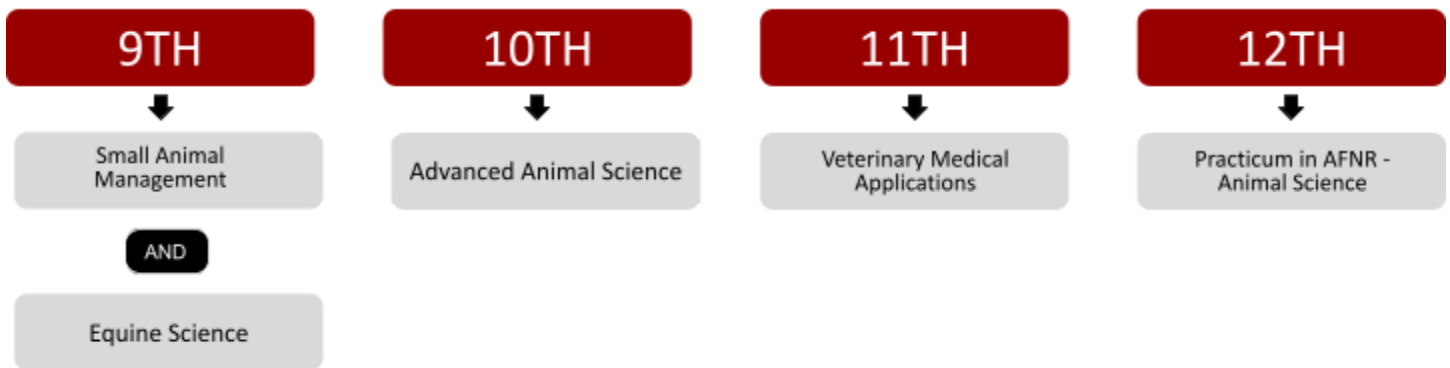
**Grade Placement:** 11-12 **Course Code:** 16435

**Prerequisite:** Robotics 1.

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs. **Counts as 3rd Level Math.**



# VETERINARY SCIENCE



The **Veterinary Science** pathway is designed to prepare students for a career in veterinary medicine. Courses will cover identification of species and breeds, professionalism, animal care and identification of symptoms and medical instruments. Students who complete this program will gain knowledge and certifications in the veterinary/animal science field.

**Degree/ Credential Offered:** Certified Veterinary Assistant, Level 1; Elanco Veterinary Medical Applications Certification

## Small Animal Management

1 semester/0.5 credit/ 1 period (L2)

Grade Placement: 9-10 Course Code: 15629

**Prerequisite:** Concurrent enrollment in Equine Science.

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 small mammals such as dogs and cats, amphibians, reptiles, and birds. This course will introduce students to health management and proper care of small animal species.

## Equine Science

1 semester/0.5 credit/ 1 period (L2)

Grade Placement: 9-10 Course Code: 15617

**Prerequisite:** Concurrent enrollment in Small Animal Management.

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. Topics will range from diagnosis of disease to nutrition to reproduction.

## Advanced Animal Science (Weighted)

2 semesters/1 credit/ 1 period (L4)

Grade Placement: 10-12 Course Code: 15619

**Prerequisite:** Biology, Chemistry, Algebra, Geometry; and Small Animal Management and Equine Science

Advanced Animal Science 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. This course will be comprised of project-based assignments and labs. This course can count as a 4th year science if taken in science sequence. Topics covered may include genetics and anatomy and physiology.

### **Veterinary Medical Applications**

**2 semesters/1 credit/ 1 period (L4)**

**Grade Placement:** 11-12      **Course Code:** 15624

**Prerequisite:** Advanced Animal Science.

**Certification offered in this course.**

This course will prepare students for careers in the field of animal science. This course will allow students an opportunity to learn, reinforce, apply, and transfer knowledge, skills, and technologies in a variety of settings. Topics covered in this course include, but not limited to: veterinary practices as they relate to both large and small animal species. This course will include hands-on laboratories with live animals.

### **Practicum in AFNR - Animal Science(Weighted)**

**2 semesters/2 credits/ 2 periods (L4)**

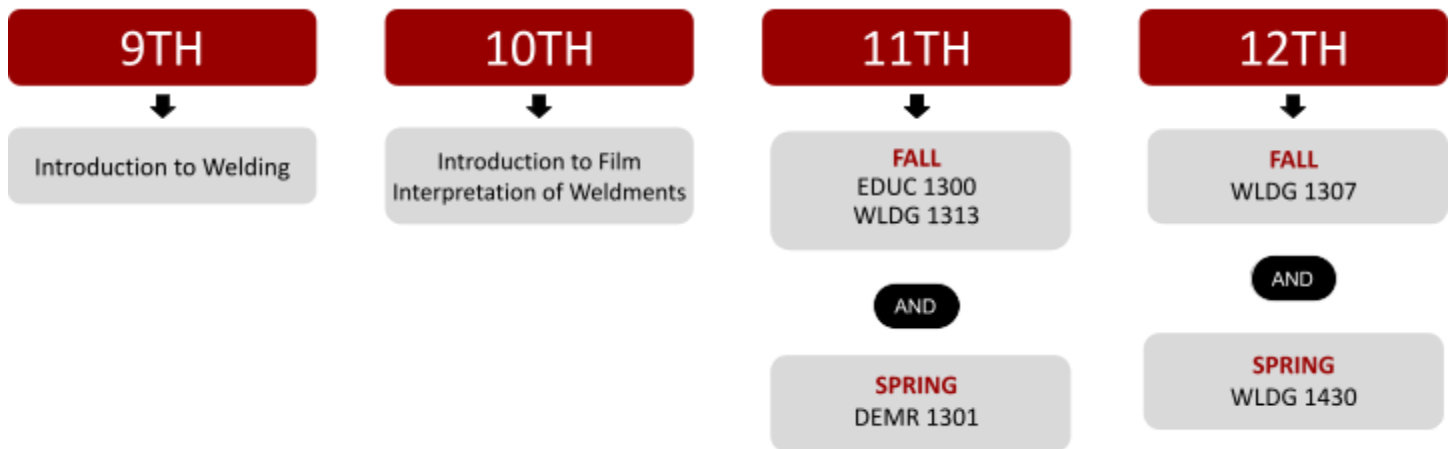
**Grade Placement:** 11-12      **Course Code:** 15629

**Prerequisite:** Veterinary Medical Applications

**Certification offered in this course.**

This course will prepare students for careers in the field of animal science. This course will allow students an opportunity to learn, reinforce, apply, and transfer knowledge, skills, and technologies in a professional setting. Students enrolled in this course will either intern with a veterinary clinic or work on campus grooming animals. This course will also prepare students for certification exams.

## WELDING WARPATH ACADEMY



The **Welding** program is intended to prepare students for a career in welding. It provides entry-level industry-skills and “hands-on” instruction by using current technologies and equipment. Students will take dual credit courses from Coastal Bend College during their junior and senior years, and are able to earn multiple certificates through the program. Students are also able to participate in work-based learning experiences their senior year. There are limited seats in this program due to restrictions on class sizes and section availability. In order to increase the chances of a student being selected, they should participate in Welding Intercession Camps, CTE Pathway Camps and CTE Symposiums.

**Degree/ Credential Offered:** AWS D1.1; AWS D9.1; AWS SENSE Welding Level 1

### Introduction to Welding

**2 semesters/1 credit/ 1 period** **(L1)**

**Grade Placement:** 9      **Course Code:** 15610

**Prerequisite:** None.

**Certifications offered in this course.**

This course will introduce welding technology with an emphasis on basic welding laboratory principles and operating procedures. The course will provide students with the knowledge, skills, and technologies required for employment in welding industries.

### Introduction to Film Interpretation of Weldments

**2 semesters/1 credit/ 1 period** **(L2)**

**Grade Placement:** 10      **Course Code:** 15611

**Prerequisite:** Introduction to Welding or Administrative Approval.

**Certifications offered in this course.**

Introduction to Film Interpretation of Weldments provides an overview of non-destructive testing (NDT) principles. It includes coverage of welding techniques, inspection process, measurements, metallurgy, and practices. It will provide students with the knowledge, skills, and technologies required for employment in welding industries.

**DEMR 1301 - Shop Safety and Procedures****1 semester /1 credits/ 2 periods****Coastal Bend College (3 college credits)****Grade Placement:** 11-12 **Course Code:** CBDEMR1301**Prerequisite:** No TSI Requirements.

A study of shop safety, rules, basic shop tools, and test equipment.

**EDUC 1300 - Learning Frameworks****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 11-12 **Course Code:** CBEDUC1300**Prerequisite:** No TSI Requirements.

This course is required for all first-time college students at Coastal Bend College. A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies.

**WLDG 1307 - Introduction to Welding Using Multiple Processes****1 semester /1 credits/ 2 periods****Coastal Bend College (3 college credits)****Grade Placement:** 11-12 **Course Code:** CBWLDG1307**Prerequisite:** No TSI Requirements.

Basic welding techniques using some of the following processes: Oxy-fuel welding (OFW) and cutting, shielded metal arc welding (SMAW), gas metal arc welding (GMAW), and gas tungsten arc welding (GTAW).

**WLDG 1313 - Introduction to Blueprint Reading for Welders****1 semester /1 credits/ 2 periods****Coastal Bend College (3 college credits)****Grade Placement:** 11-12 **Course Code:** CBWLDG1313**Prerequisite:** No TSI Requirements.

A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes. Includes systems of measurement and industry standards. Also includes interpretation of plans and drawings used by industry to facilitate field application and production.

**WLDG 1430 - Introduction to Gas Metal Arc Welding****1 semester /1 credits/ 2 periods****Coastal Bend College (4 college credits)****Grade Placement:** 11-12 **Course Code:** CBWLDG1430**Prerequisite:** No TSI Requirements.

An introduction to the shielded metal arc welding process. Emphasis placed on power sources, electrode selection, oxy-fuel cutting, and various joint designs. Instruction provided in SMAW fillet welds in various positions.



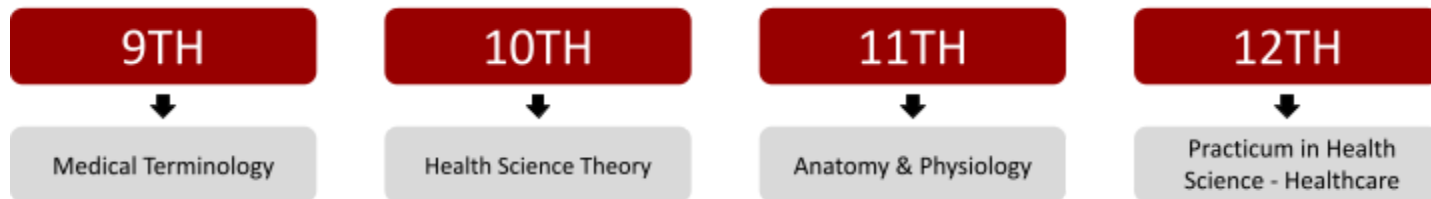
## PUBLIC SERVICE ENDORSEMENT

<p style="text-align: center;"><b>Public Services</b></p> <p>Includes courses directly related to: Health Sciences and Occupations; Education and Training; and Law Enforcement.</p>	<p style="text-align: center;"><b>CURRICULUM REQUIREMENTS</b></p> <p><i>Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD</i></p>
	<p>Students must complete one of the following options for the Public Services Endorsement::</p> <ul style="list-style-type: none"> <li>A. A coherent sequence of courses for four or more credits in CTE that consists of at least two courses in the same career cluster, including at least one advanced CTE course. The final course in the sequence must be obtained from one of the CTE career clusters: <ul style="list-style-type: none"> <li>(i) Education and Training; or</li> <li>(ii)* Government and Public Administration; or</li> <li>(iii) Health Science; or</li> <li>(iv) Human Services; or</li> <li>(v)* Law, Public Safety, Corrections, and Security; or</li> <li>(vi) Public Services-related Career Preparation I or II; or</li> </ul> </li> <li>B. Courses required to complete a TEA-designated program of study related to public services; or</li> <li>C. Four credits in Leadership Education &amp; Training (Junior Reserve Officer Training Corps – JROTC).</li> </ul>

<p style="text-align: center;"><b>PUBLIC SERVICE REQUIRED COURSES</b></p> <p style="text-align: center;">FHSP coursework, 4th Math credit, 4th Science credit, plus one of the following pathways below:</p>	
<p style="text-align: center;"><b>CTE</b></p> <p>4 credits on one of the Public Services Program of Study.</p>	<p style="text-align: center;"><b>Leadership Education &amp; Training (LET) JROTC</b></p>
1st CTE credit	NJROTC 1
2nd CTE credit	NJROTC 2
3rd CTE credit	NJROTC 3
4th CTE credit	NJROTC 4



# HEALTHCARE TECHNICIAN *WARPATH ACADEMY*



The **Healthcare Technician** program is in partnership with Coastal Bend College. Students will complete coursework at Tulo-so-Midway High School and participate in work-based learning their senior year. Students will earn 4 industry certifications while in this program and job placement assistance upon completion.

**Degree/ Credential Offered:** EKG Technician; Phlebotomy Technician; Certified Nursing Assistant; Patient Care Technician

## Medical Terminology

2 semesters/1 credit/ 1 period (L1)

**Grade Placement:** 9-10      **Course Code:** 15801

**Prerequisite:** Biology.

This course is required for Healthcare Students. Medical Terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, root words, combining forms, singular forms, plural forms, medical abbreviations, and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy, human physiology, and pathophysiology.

## Health Science Theory

2 semesters/1 credit/ 1 period (L3)

**Grade Placement:** 10-11      **Course Code:** 15802

**Prerequisite:** None.

**Certifications offered in this course.**

The Health Science Theory course focuses on preparing students for a wide variety of health careers. In this course, students will learn all about the foundations of healthcare from how the industry works, to the different professions that fall within the field. Students will also learn medical terminology, the difference between diagnostic and therapeutic careers, the legal and ethical considerations and will also employ hands-on experiences for continued knowledge and skill development.

## Anatomy & Physiology

2 semesters/1 credit/ 1 period (L3)

**Grade Placement:** 11-12      **Course Code:** 15321

**Prerequisite:** Biology or Biology Pre-AP, Chemistry or Chemistry Pre-AP.

Anatomy and Physiology is a study of the human systems and is geared to meet the needs of students interested in a career in the medical field. This lab-oriented course is designed to demonstrate safe practices using biological equipment and chemicals as well as safe dissecting techniques. Students will participate fully in labs and use safe procedures in handling dissection specimens, recognize and identify organs on models and on dissected specimens.

## Practicum in Health Science – Healthcare

**(Weighted)**

2 semesters/2 credits/ 2 periods (L4)

**Grade Placement:** 12      **Course Code:** 15806-7

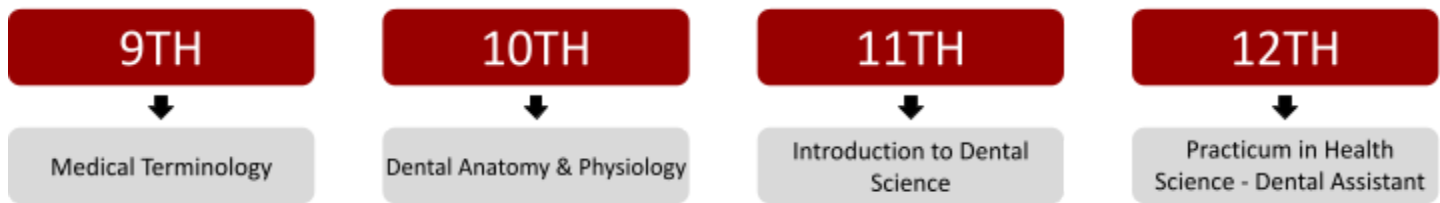
**Prerequisite:** Health Science Theory and Biology.

**Certifications offered in this course.**

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. Students who take this course will gain major industry-level certifications in the healthcare field from Coastal Bend College.



## DENTAL SCIENCE



**Dental Assisting** is a growing career field that is projected to grow 11% by 2028. Dental assistants help dentists in oral procedures like fillings, crowns, extractions, and root canals as well as deliver compassionate patient care. They're also expected to manage administrative and office procedures. Once you complete the Dental Assisting pathway at TMHS, you will be eligible to apply to become a registered dental assistant.

**Degree/ Credential Offered:** Registered Dental Assisting Certification; CPR Certification

### Medical Terminology

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 9-10     **Course Code:** 15801

**Prerequisite:** None.

This course is required for Healthcare Students. Medical Terminology is designed to introduce students to the structure of medical terms, including prefixes, suffixes, root words, combining forms, singular forms, plural forms, medical abbreviations, and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy, human physiology, and pathophysiology.

### Dental Anatomy & Physiology

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 11-12     **Course Code:** 15827

**Prerequisite:** Medical Terminology.

Dental Anatomy and Physiology is a health science course designed for exploration of the physiology of the head, neck, oral, and dental anatomy. Students will identify and describe functions of anatomical structures, including the bones, muscles, nerves, and blood vessels of the head and neck as well as their relationship to the corresponding body systems. Students will also identify and describe oral, head and neck pathologies, conditions, diagnostic tools, treatments, and professions.

### Introduction to Dental Science

**2 semesters/1 credit/ 1 period (L1)**

**Grade Placement:** 9-10     **Course Code:** 15803

**Prerequisite:** Dental Anatomy & Physiology or concurrent enrollment.

Introduction to Dental Science is an introductory health science course designed to initiate students to the field of dentistry. The purpose of this course is to establish a foundation for coursework in dental science and prepare students for a future career in dentistry. In this course, students will discuss the history of dentistry; identify dental career pathways; explain legal and ethical responsibilities; recognize professional behavior and perform basic routine dental office procedures.

### Practicum in Health Science – Dental (Weighted)

**2 semesters/2 credits/ 2 periods (L4)**

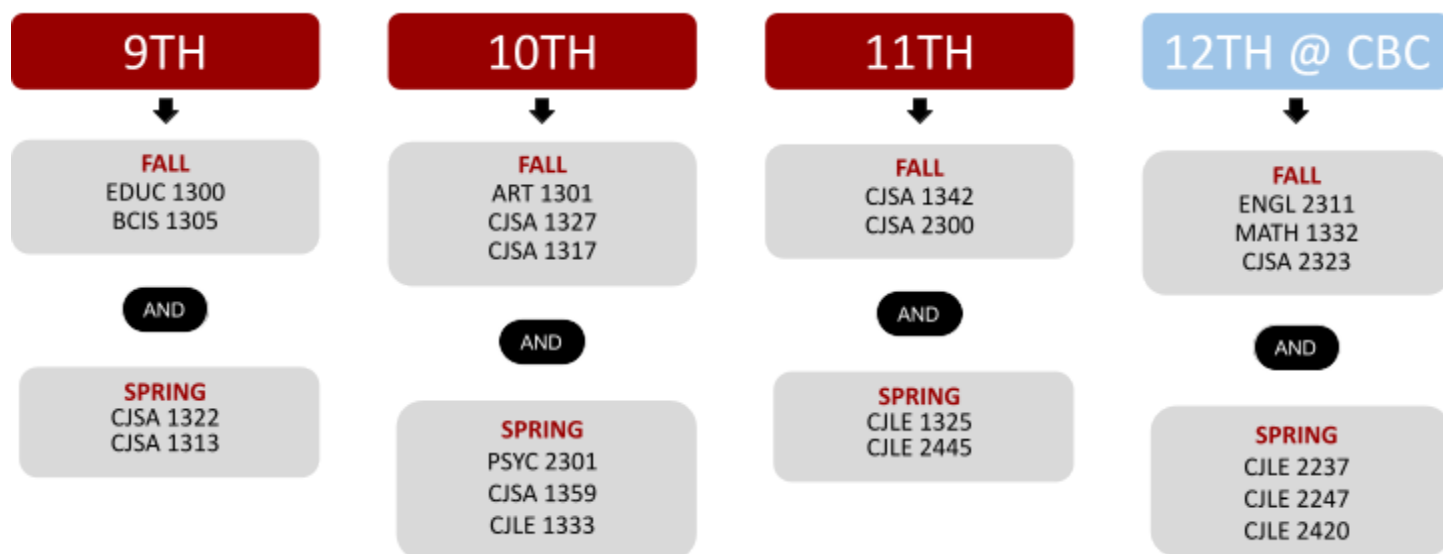
**Grade Placement:** 11-12     **Course Code:** 15804-5

**Prerequisite:** Introduction to Dental Science.

**Certifications offered in this course.**

The Dental Science externship is designed to give the students a hands-on experience in the dental office. This practicum is designed to give students additional "on-the-job" training before heading into the job market. Testing and additional immunizations may be required by the cooperating dental office or training stations. Students must be a graduating senior to apply for state registration. Students will be required to provide their own transportation.

## LAW ENFORCEMENT *WARPATH ACADEMY*



The **Law Enforcement** program is in partnership with Coastal Bend College and is designed to provide a solid foundational understanding of the American justice system and law enforcement practices. The courses available within this curriculum will keep the student engaged and prepared for possible service in law enforcement, court systems, and corrections.

**Degree/ Credential Offered:** Texas Non-Commissioned Security Officer, Level II Certification; Associated in Applied Science in Law Enforcement

### ARTS 1301 - Art Appreciation

1 semester/1 credit/ 1 period

Coastal Bend College (3 college credits)

Grade Placement: 9-11      Course Code: CBARTS1301

**Prerequisite:** No TSI Requirements.

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts

### BCIS 1305 - Business Computer Applications

1 semester /1 credits/ 1 period

Coastal Bend College (3 college credits)

Grade Placement: 9-11      Course Code: CBBICIS1305

**Prerequisite:** No TSI Requirements.

Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

**CJLE 1325 - Criminal Justice Survey****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBCJLE1325****Prerequisite:** No TSI Requirements.

An overview of criminal justice agencies with an emphasis on preparation for law enforcement licensure.

**CJLE 1333 - Traffic Law and Investigation****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBCJLE1333****Prerequisite:** No TSI Requirements.

Instruction in the basic principles of traffic control, traffic law enforcement, court procedures, and traffic law. Emphasis on the need for a professional approach in dealing with traffic law violators and the police role in accident investigation and traffic supervision.

**CJLE 2237 - Advanced Firearms****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 12 Course Code: CBCJLE2237****Prerequisite:** No TSI Requirements.

Instruction in special situations and tactics. Stressful situations will challenge the student to perform under simulated field conditions. A specified firearms course will be included.

**CJLE 2247 - Tactical Skills for Police****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 12 Course Code: CBCJLE2247****Prerequisite:** No TSI Requirements.

Development of proficiency with a range of impact weapons and/or chemical agents and defensive techniques necessary to control a violent person. This course was designed to be repeated multiple times if content varies.

**CJLE 2445 - Vice and Narcotics Investigation****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBCJLE2445****Prerequisite:** No TSI Requirements.

Classifications of commonly used narcotics, dangerous drugs, gambling, sex crimes, fraud, gangs, and investigative techniques. Includes proper interdiction procedures and techniques.

**CJLE 2420 - Texas Peace Officer Procedures****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 12 Course Code: CBCJLE2420****Prerequisite:** No TSI Requirements.

Study of the techniques and procedures used by police officers on patrol. Includes controlled substance identification, handling abnormal persons, traffic collision investigation, note taking and report writing, vehicle operation, traffic direction, crowd control, and jail operations. Partially satisfies Texas Commission on Law Enforcement Course #1011. **\*\*\*STUDENTS WHO COMPLETE 7 TEXAS COMMISSION ON LAW ENFORCEMENT-APPROVED ACADEMIC CRIJ COURSES AND THE 4 SEQUENCE COURSES (FOR A TOTAL OF 11 TEXAS COMMISSION ON LAW ENFORCEMENT ACADEMIC LICENSING REQUIREMENTS) MAY BE CERTIFIED TO SIT FOR THE TEXAS COMMISSION ON LAW ENFORCEMENT LICENSING EXAM UPON COMPLETION OF COLLEGE/UNIVERSITY DEGREE\*\*\***

**CJSA 1313 - Court Systems and Practices****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBCJSA1313****Prerequisite:** No TSI Requirements.

The judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence, sentencing.

**CJSA 1317 - Juvenile Justice System****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBCJSA1317****Prerequisite:** No TSI Requirements.

A study of the juvenile justice process to include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of the police agencies, role of correctional agencies, and theories concerning delinquency.

**CJSA 1322 - Introduction to Criminal Justice****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement: 9-12 Course Code: CBCJSA1322****Prerequisite:** No TSI Requirements.

History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; law enforcement; court system; prosecution and defense; trial process; corrections.

**CJSA 1327 - Fundamentals of Criminal Law****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA1327**Prerequisite:** No TSI Requirements.

A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility.

**CJSA 1342 - Criminal Investigation****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA1342**Prerequisite:** No TSI Requirements.

Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation.

**CJSA 1359 - Police System and Practices****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA1359**Prerequisite:** No TSI Requirements.

The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues.

**CJSA 2300 - Legal Aspects of Law Enforcement****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA2300**Prerequisite:** No TSI Requirements.

Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability.

**CJSA 2323 - Criminalistics II****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA2323**Prerequisite:** No TSI Requirements.

Theory and practice of crime scene investigation. Topics include report writing, blood and other body fluids, document examination, etchings, casts and molds, glass fractures, use of microscope, and firearms identification.

**EDUC 1300 - Learning Frameworks****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBEDUC1300**Prerequisite:** No TSI Requirements.

This course is required for all first-time college students at Coastal Bend College. A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies.

**MATH 1332 - Contemporary Mathematics****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBMATH1332**Prerequisite:** TSI Math score of 343 or above.

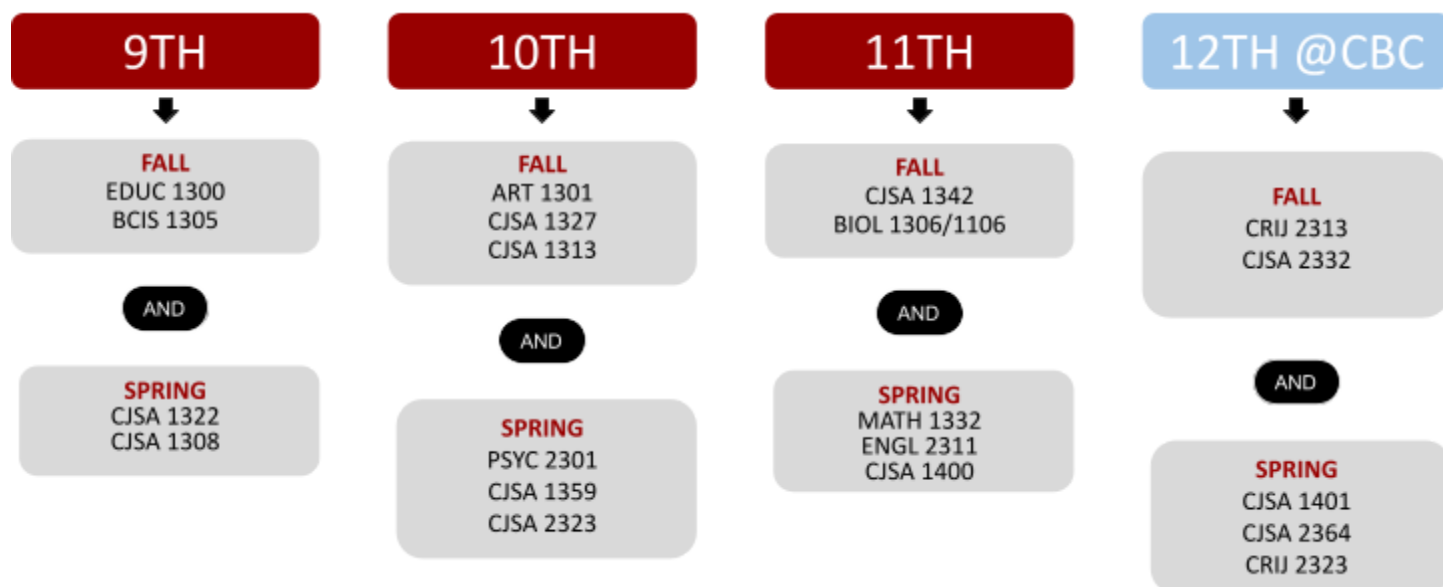
Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included.

**PSYC 2301 - General Psychology****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBPSYC2301**Prerequisite:** TSI Reading.

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.



## FORENSIC SCIENCE *WARPATH ACADEMY*



The **Forensic Science** is in partnership with Coastal Bend College and provides students with knowledge of various techniques used to process crime scenes for forensic evidence which are common to the profession. At the end of this program, students will be competent in how to secure a crime scene, identification of evidence, proper documentation of a crime scene, evidence collection and packaging, types of evidence to look for in different types of crime, the tests available to analyze evidence, and forensic laboratories. The program prepares the student to enter the field of forensics as a crime scene tech at the federal, state, or local levels. Additionally, this field of study also prepares the student for entry and intermediate levels in a career in private laboratories as a lab assistant.

**Degree/ Credential Offered:** Associated in Applied Science in Forensic Science

### ARTS 1301 - Art Appreciation

1 semester/1 credit/ 1 period

Coastal Bend College (3 college credits)

Grade Placement: 9-12 Course Code: CBARTS1301

**Prerequisite:** No TSI Requirements.

A general introduction to the visual arts designed to create an appreciation of the vocabulary, media, techniques, and purposes of the creative process. Students will critically interpret and evaluate works of art within formal, cultural, and historical contexts

### BIOL 1306/1106 - Biology for Science Majors 1

1 semester /1 credits/ 1 period

Coastal Bend College (4 college credits)

Grade Placement: 10-12 Course Code: CBBIOL1306

**Prerequisite:** TSI Reading and Writing. Must take BIOL 1306 and BIOL 1106 concurrently.

Fundamental principles of living organisms will be studied, including physical and chemical properties of life, organization, function, evolutionary adaptation, and classification. Concepts of cytology, reproduction, genetics, and scientific reasoning are included.

**BCIS 1305 - Business Computer Applications****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBBCIS1305**Prerequisite:** No TSI Requirements.

Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

**CJLE 1308 - Criminalistics I****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJLE1308**Prerequisite:** No TSI Requirements.

Introduction to the field of criminalistics. Topics include the application of scientific and technical methods in the investigation of crime including location, identification, and handling of evidence for scientific analysis.

**CJSA 1313 - Court Systems and Practices****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA1313**Prerequisite:** No TSI Requirements.

The judiciary in the criminal justice system; structure of the American court system; prosecution; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence, sentencing.

**CJSA 1322 - Introduction to Criminal Justice****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA1322**Prerequisite:** No TSI Requirements.

History and philosophy of criminal justice and ethical considerations; crime defined; its nature and impact; overview of criminal justice system; law enforcement; court system; prosecution and defense; trial process; corrections.

**CJSA 1327 - Fundamentals of Criminal Law****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA1327**Prerequisite:** No TSI Requirements.

A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility.

**CJSA 1359 - Police System and Practices****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA1359**Prerequisite:** No TSI Requirements.

The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues.

**CJSA 1342 - Criminal Investigation****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 9-12      **Course Code:** CBCJSA1342**Prerequisite:** No TSI Requirements.

Investigative theory; collection and preservation of evidence; sources of information; interview and interrogation; uses of forensic sciences; case and trial preparation.

**CJSA 1400 - Death Investigation I****1 semester /1 credits/ 1 period****Coastal Bend College (3 college credits)****Grade Placement:** 11-12      **Course Code:** CBCJSA1400**Prerequisite:** No TSI Requirements.

Concepts, investigations process, scene management, required documentation, and case management for incidences of natural, accidental, and suicidal deaths. Follows the Department of Justice National Guidelines for Death Investigations and meets the criteria for academic credit recognition from the American Board of Medicolegal Death Investigators.



### **CJSA 1401 - Death Investigation II (Capstone)**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 10-12    **Course Code:** CBCJSA1401

**Prerequisite:** CRIJ 1307 /CJSA 1312, CRIJ 1306/CJSA 1313, CRIJ 2314/CJSA 1342, CJSA 2332, and CJSA 1400 or program director approval. No TSI Requirements.

**Co-Requisite:** CRIJ 2323/CJSA 2300, or program director approval.

Concepts, investigations process, scene management, required documentation, and case management for incidences of natural, accidental, and suicidal deaths. Follows the Department of Justice National Guidelines for Death Investigations and meets the criteria for academic credit recognition from the American Board of Medicolegal Death Investigators.

### **CJSA 2323 - Criminalistics II**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 10-12    **Course Code:** CBCJSA2323

**Prerequisite:** No TSI Requirements.

Theory and practice of crime scene investigation. Topics include report writing, blood and other body fluids, document examination, etchings, casts and molds, glass fractures, use of microscope, and firearms identification.

### **CJSA 2332 - Criminalistics III**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 10-12    **Course Code:** CBCJSA2332

**Prerequisite:** CJSA 1308 and CJSA 2323. No TSI Requirements.

A study of the practical aspects of criminalistics procedures. Topics include crime scene investigation, collecting and preserving evidence, and testifying in court.

### **CJSA 2364 - Practicum in Criminal Justice/Safety Studies**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 11-12    **Course Code:** CBCJSA2364

**Prerequisite:** No TSI Requirements.

Practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

### **CRIJ 2313 - Juvenile Justice System**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBCRIJ2313

**Prerequisite:** CJSA 1308 and CJSA 2323. No TSI Requirements.

A study of the juvenile justice process to include specialized juvenile law, role of the juvenile law, role of the juvenile courts, role of the police agencies, role of correctional agencies, and theories concerning delinquency.

### **CRIJ 2323 - Legal Aspects of Law Enforcement**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBCRIJ2323

**Prerequisite:** CJSA 1308 and CJSA 2323. No TSI Required.

Police authority; responsibilities; constitutional constraints; laws of arrest, search, and seizure; police liability.

### **EDUC 1300 - Learning Frameworks**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBEDUC1300

**Prerequisite:** No TSI Requirements.

This course is required for all first-time college students at Coastal Bend College. A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies.

### **MATH 1332 - Contemporary Mathematics**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBMATH1332

**Prerequisite:** TSI Math score of 343 or above.

Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included.

### **PSYC 2301 - General Psychology**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-12    **Course Code:** CBPSYC2301

**Prerequisite:** TSI Reading.

General Psychology is a survey of the major psychological topics, theories and approaches to the scientific study of behavior and mental processes.





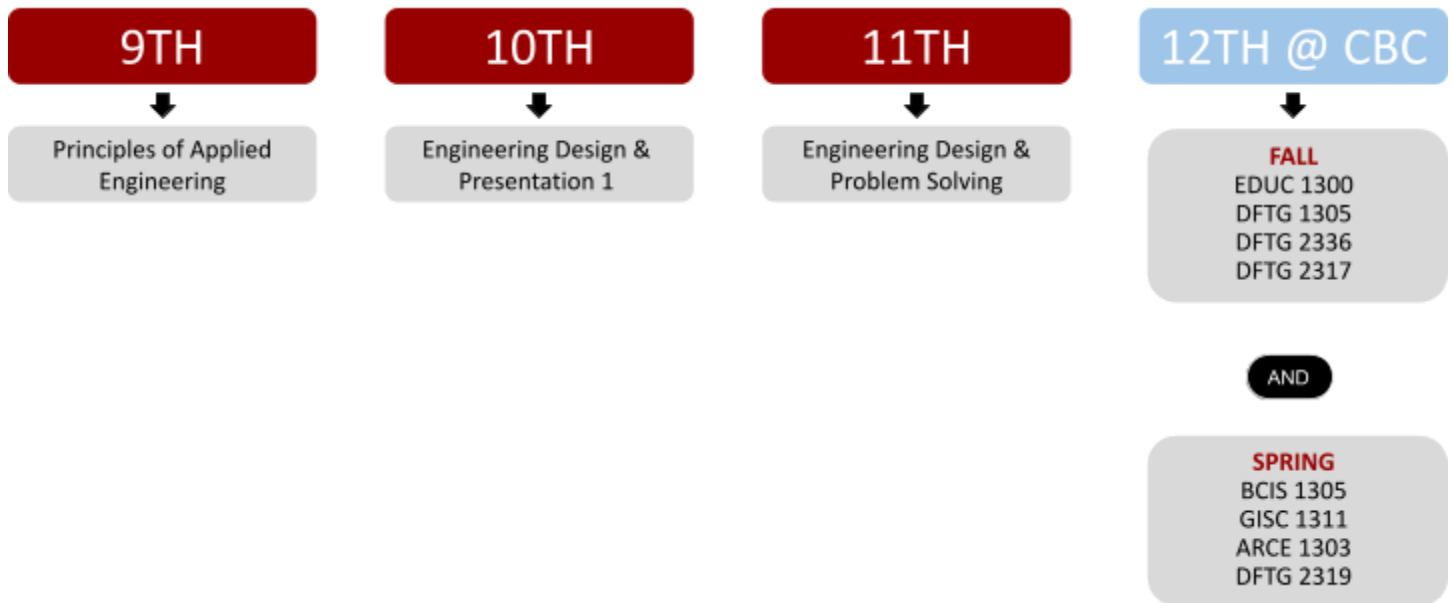
## STEM ENDORSEMENT PATHWAYS

<p style="text-align: center;"><b>Science, Technology, Engineering &amp; Mathematics (STEM)</b></p> <p style="text-align: center;">Includes courses directly related to: Science; Technology; Engineering; and Advanced Mathematics.</p>	<p style="text-align: center;"><b>CURRICULUM REQUIREMENTS</b></p> <p style="text-align: center;"><i>Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD</i></p>
	<p>Students must complete Algebra II, Chemistry, Physics, and one of the following options for the STEM Endorsement:</p> <ul style="list-style-type: none"> <li>A. A coherent sequence of courses for four or more credits in career and technical education (CTE) that consists of at least two courses in the same career cluster, including at least one advanced CTE course. The final course in the sequence must be obtained from one of the following CTE career clusters: <ul style="list-style-type: none"> <li>(i) STEM; or</li> <li>(ii) Stem-related Career Preparation I or II; or</li> </ul> </li> <li>B. Courses required to complete a TEA-designated program of study related to STEM; or</li> <li>C. Three credits in mathematics by successfully completing Algebra II and two additional mathematics credits for which Algebra II is a prerequisite; or</li> <li>D. Four credits in science by successfully completing chemistry, physics, and two additional science credits by selecting courses; or</li> <li>E. A coherent sequence of three additional credits from no more than two of the categories or disciplines represented by subparagraphs (A), (B), (C), and (D) of this paragraph.</li> </ul>

<p style="text-align: center;"><b>STEM REQUIRED COURSES</b></p> <p style="text-align: center;">FHSP coursework, 4th Math credit, 4th Science credit, (including Algebra 2, Chemistry, &amp; Physics), plus one of the following pathways below:</p>		
<p style="text-align: center;"><b>CTE</b></p> <p style="text-align: center;">4 credits in one of the STEM programs of study.</p>	<p style="text-align: center;"><b>Math</b></p> <p style="text-align: center;">5 credits in Math, including Algebra 1, Geometry, Algebra 2, and two credits for which Algebra 2 is a prerequisite</p>	<p style="text-align: center;"><b>Science</b></p> <p style="text-align: center;">5 credits in Science, including Biology, Chemistry, Physics, and two additional science credits</p>
1st CTE credit	Algebra 1	Biology
2nd CTE credit	Geometry	Chemistry
3rd CTE credit	Algebra 2	Physics
4th CTE credit	4th Math Credit	4th Science Credit
	5th Math Credit	5th Science Credit



# ENGINEERING WARPATH ACADEMY



The **Engineering** program is designed to give students knowledge in engineering design principles, processes, and design creations. Students will learn how to design solutions in 2D and 3D modeling programs, work with industry partners to solve real world problems and earn college credit their senior year with Coastal Bend College. **If a student is interested in Mechanical Engineering, if they take the senior courses and the General Studies program through Warpath Academy, they are dramatically shortening their time and expense at their decided college or university.**

**Degree/ Credential Offered:** Autodesk Certified User – Inventor; Autodesk Certified User – AutoCAD

## Principles of Applied Engineering

**2 semesters/1 credit/ 1 period (L1)**

**Grade Placement:** 9-10 **Course Code:** 16430

**Prerequisite:** None.

This course 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.

## Engineering Design and Problem Solving (Weighted)

**2 semesters/1 credit/ 1 period (L4)**

**Grade Placement:** 11-12 **Course Code:** 16440

**Prerequisite:** Algebra 1 and Geometry.

**Certifications offered in this course.**

Students enrolled in the Engineering Design and Problem-Solving class will demonstrate the ability to develop Civil Plans, Process and Instrument Drawings, Industrial Piping Schematics and Architecture Basic House plans meeting the needs of Architecture, Engineering and Construction Professions. The student will use industry's standards utilizing world class software such as Revit, Inventor, AutoCAD and MicroStation.

### **Engineering Design and Presentation I**

**2 semesters/1 credit/ 1 period (L3)**

**Grade Placement:** 10-11    **Course Code:** 16431

**Prerequisite:** Algebra 1.

**Certifications offered in this course.**

Careers in Architecture, Engineering and Construction require a solid foundation in measurement, graphic/verbal communication, and software. Students enrolled in the Engineering Design class will demonstrate the ability to meet industry's standards utilizing world class software such as Revit, Inventor, AutoCAD and MicroStation.

### **Scientific Research and Design (Weighted)**

**2 semesters/1 credit/ 1 period (L4)**

**Grade Placement:** 10-12    **Course Code:** 15627

**Prerequisite:** Biology, Chemistry, & Physics.

This course has components of rigorous scientific or engineering program of study from problem identification, investigation, data collection, analysis, formulation, and conclusion. These components are integrated with career and technical emphasis of helping students gain employment/continue their education. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement and awards one credit for successful completion.

### **ARCE 1303 - Architectural Materials & Methods**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11    **Course Code:** CBARCE1303

**Prerequisite:** No TSI Requirements.

Properties, specifications, vendor references, and uses of materials as related to architectural systems of structures.

### **BCIS 1305 - Business Computer Applications**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11    **Course Code:** CBBCIS1305

**Prerequisite:** No TSI Requirements.

Students will study computer terminology, hardware, and software related to the business environment. The focus of this course is on business productivity software applications and professional behavior in computing, including word processing (as needed), spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet.

### **DFTG 1305 - Technical Drafting**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11    **Course Code:** CBDFTG1305

**Prerequisite:** No TSI Requirements.

An introduction to reading, interpreting, and developing technical drawings, including the principles of drafting and computer-aided design.

### **DFTG 2317 - Descriptive Geometry**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11    **Course Code:** CBDFTG2317

**Prerequisite:** No TSI Requirements.

Graphical solutions to problems involving points, lines, and planes in space.

### **DFTG 2319 - Intermediate Computer-Aided Drafting**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11    **Course Code:** CBDFTG2319

**Prerequisite:** No TSI Requirements.

A continuation of practices and techniques used in basic computer-aided drafting including the development and use of prototype drawings, construction of pictorial drawings, extracting data, and basics of 3D.

### **DFTG 2336 Computer-Aided Programming**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11    **Course Code:** CBDFTG23360

**Prerequisite:** No TSI Requirements.

Use of programming language to enhance CAD software.

### **EDUC 1300 - Learning Frameworks**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11    **Course Code:** CBEDUC1300

**Prerequisite:** No TSI Requirements.

This course is required for all first-time college students at Coastal Bend College. A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies.

## **GISC 1311 - Introduction to Geographic Information Systems**

**1 semester /1 credits/ 1 period**

**Coastal Bend College (3 college credits)**

**Grade Placement:** 9-11     **Course Code:** CBGISC1311

**Prerequisite:** No TSI Requirements.

This course is required for all first-time college students at Coastal Bend College. A study of the research and theory in the psychology of learning, cognition, and motivation; factors that impact learning, and application of learning strategies.

# GEOSPATIAL ENGINEERING & LAND SURVEYING



The **Geospatial Engineering** program prepare students with advanced knowledge and skills focusing on research, design, development, and use of technologies in the field of geospatial systems engineering. In partnership with Texas Department of Transportation and the Conrad Blucher Institute at Texas A&M University - Corpus Christi students will participate in work-based learning involving GIS, drones, and surveying activities.

**Degree/ Credential Offered:** ESRI ArcGIS Desktop Entry

## Principles of Applied Engineering

**2 semesters/1 credit/ 1 period (L1)**

**Grade Placement:** 9-10 **Course Code:** 16430

**Prerequisite:** None.

This course 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.

## Geographic Information Systems (GIS)

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 10-11 **Course Code:** 16441

**Prerequisite:** Algebra 1.

**Certifications offered in this course.**

Students will be introduced to terminology and concepts relating to GIS/RS technology and will apply these concepts through use of GIS software programs. Students will participate in structured, applied learning exercises from existing data sources, and conduct new study of these data sources through self-driven study and analysis. Skill based training in GIS will introduce students to the use of GIS software and software extensions through academic study and extensive applied instruction.

## Scientific Research and Design (Weighted)

**2 semesters/1 credit/ 1 period (L3)**

**Grade Placement:** 10-12 **Course Code:** 15627

**Prerequisite:** Biology, Chemistry, & Physics (can be taken concurrently).

This course has components of rigorous scientific or engineering program of study from problem identification, investigation, data collection, analysis, formulation, and conclusion. These components are integrated with career and technical emphasis of helping students gain employment/continue their education. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement and awards one credit for successful completion.

## Practicum in STEM (Weighted)

**2 semesters/2 credits/ 2 periods (L4)**

**Grade Placement:** 12 **Course Code:** 16442

**Prerequisite:** Algebra 1, Geometry. Must follow a STEM pathway.

Practicum in STEM is designed to give students supervised practical application of previously studied knowledge and skills.

# RENEWABLE ENERGY WARPATH ACADEMY



The **Renewable Energy** program is in partnership with Coastal Bend College. The program concentrates on the skill development in the performance of a variety of machinery and equipment using proper techniques and standard safety measures. Students will be able to repair or maintain the operating condition of industrial production or processing machinery or equipment. As well as able to repair or replace broken or malfunctioning components of machinery or equipment.

**Degree/ Credential Offered:** Autodesk Certified User – Inventor

## Principles of Applied Engineering

**2 semesters/1 credit/ 1 period (L1)**

**Grade Placement:** 9-10 **Course Code:** 16430

**Prerequisite:** None.

This course 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.

## AC/DC Electronics

**2 semesters/1 credit/ 1 period (L2)**

**Grade Placement:** 10-11 **Course Code:** 16434

**Prerequisite:** None.

AC/DC Electronics focuses on the basic electricity principles of alternating current/direct current (AC/DC) circuits. Students will demonstrate knowledge and applications of circuits, electronic measurement, and electronic implementation. Through use of the design process, students will transfer academic skills to component designs in a project-based environment. Students will use a variety of computer hardware and software applications to complete assignments and projects.

## Scientific Research and Design *(Weighted)*

**2 semesters/1 credit/ 1 period (L3)**

**Grade Placement:** 10-12 **Course Code:** 15627

**Prerequisite:** Biology, Chemistry, & Physics (concurrently).

This course has components of rigorous scientific or engineering program of study from problem identification, investigation, data collection, analysis, formulation, and conclusion. These components are integrated with career and technical emphasis of helping students gain employment/continue their education. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement and awards one credit for successful completion.

## Engineering Design and Problem Solving *(Weighted)*

**2 semesters/1 credit/ 1 period (L4)**

**Grade Placement:** 11-12 **Course Code:** 16440

**Prerequisite:** Algebra 1 and Geometry.

**Certifications offered in this course.**

Students enrolled in the Engineering Design and Problem-Solving class will demonstrate the ability to develop Civil Plans, Process and Instrument Drawings, Industrial Piping Schematics and Architecture Basic House plans meeting the needs of Architecture, Engineering and Construction Professions. The student will use industry's standards utilizing world class software such as Revit, Inventor, AutoCAD and MicroStation.





# ARTS & HUMANITIES ENDORSEMENT

<h2>Arts &amp; Humanities</h2> <p>Includes courses directly related to: Political Science; World Languages &amp; Cultures; Cultural Studies; English Literature; History; Fine Arts.</p>	CURRICULUM REQUIREMENTS
	<p><i>Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD.</i></p> <p>A student pursuing an Arts &amp; Humanities Endorsement who has the written permission of the student's parent may substitute the fourth science credit with an elective credit selected from English Language Arts, Social Studies, World Languages &amp; Cultures, or Fine Arts. Students must complete one of the following options for the Arts &amp; Humanities Endorsement:</p> <ul style="list-style-type: none"> <li>A. Five social studies credits by selecting courses; or</li> <li>B. Four levels of the same language in a language other than English; or</li> <li>C. Two levels of the same language in a language other than English and two levels of a different language in a language other than English; or</li> <li>D. Four levels of American Sign Language</li> <li>E. A coherent sequence of four credits by selecting courses from one or two categories in Art, Dance, Music (Band, Choir, or Orchestra), or Theatre; or</li> <li>F. Four English elective credits by selecting from the following: <ul style="list-style-type: none"> <li>(i) English IV; or</li> <li>(ii) Independent Study in English; or</li> <li>(iii) Literary Genres; or</li> <li>(iv) Creative Writing; or</li> <li>(v) Research and Technical Writing; or</li> <li>(vi) Humanities; or</li> <li>(vii) Communication Applications; or</li> <li>(viii) AP English Literature and Composition; or</li> <li>(ix)* IB Language Studies A1 Higher Level.</li> </ul> </li> </ul>

ARTS & HUMANITIES REQUIRED COURSES					
FHSP coursework, 4th Math credit, 4th Science credit (**A student pursuing an Arts & Humanities Endorsement who has the written permission of the student's parent or guardian may substitute the fourth science credit with an elective credit selected from English Language Arts, Social Studies, World Languages & Cultures, or Fine Arts), plus one of the following pathways below:					
Social Studies	World Languages & Cultures/ASL	WLC 2x2	Fine Arts	Fine Arts Combo (3x1 or 2x2)	ELA Electives
5 credits in Social Studies	4 credits of the same language	*2 credits of the same language & **2 credits of the same language that is different from the first 2 credits*	4 credits in Art, Dance, Theatre, or Music (Band, Choir, or Orchestra)	Combination of no more than 2 Fine Arts categories in Art, Dance, Theatre, or Music (Band, Choir, or Orchestra)	4 credits in English/Language Arts
1st Social Studies	WLC 1	WLC 1 *	Fine Arts 1	Fine Arts 1	1st ELA
2nd Social Studies	WLC 2	WLC 2 *	Fine Arts 2	Fine Arts 2	2nd ELA
3rd Social Studies	WLC 3	WLC 3 **	Fine Arts 3	Fine Arts (3 or 1)	3rd ELA
4th Social Studies	WLC 4	WLC 4 **	Fine Arts 4	Fine Arts (1 or 2)	4th ELA
5th Social Studies					



## MULTIDISCIPLINARY ENDORSEMENT

<h3>Multidisciplinary Studies</h3> <p>Allows a student to select courses from the curriculum of each endorsement area and earn credits in a variety of advanced courses from multiple content areas.</p>	<b>CURRICULUM REQUIREMENTS</b> <i>Below is a comprehensive listing of options made available by the State; however, not all options are available in TMISD</i>
	<p>Students must complete one of the following options for the Multidisciplinary Studies Endorsement:</p> <ul style="list-style-type: none"> <li>A. Four advanced courses that prepare a student to enter the workforce successfully or postsecondary education without remediation from within one endorsement area or among endorsement areas that are not in a coherent sequence; or</li> <li>B. Four credits in each of the four foundation subject areas to include English IV and chemistry and/or physics; or</li> <li>C. Four credits in Advanced Placement, *International Baccalaureate, or dual credit selected from English, mathematics, science, social studies, World Languages &amp; Cultures, or fine arts.</li> </ul>

<b>MULTIDISCIPLINARY REQUIRED COURSES</b> FHSP coursework, 4th Math credit, 4th Science credit, (including Algebra 2, Chemistry, & Physics), plus one of the following pathways below:		
Advanced/ Honors Credits	Four x Four	Dual Enrollment
*Single or multiple endorsement areas that are NOT in a coherent sequence.	4 credits in English 4 credits in Mathematics 4 credits in Science 4 credits in Social Studies	4 credits of any combination of Dual Enrollment(DE) courses in the following subject areas: English Language Arts; Mathematics; Science; Social Studies; World Languages & Cultures; or Fine Arts
1st Advanced credit	4th English	1st DE Credit
2nd Advanced credit	4th Mathematics	2nd DE Credit
3rd Advanced credit	4th Science credit (in addition to Chemistry and/or Physics)	3rd DE Credit
4th Advanced credit	4th Social Studies Credit	4th DE Credit

