Galveston
Ball High School
2022-2023

Curriculum and Course Guide

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NON DISCRIMINATION STATEMENT

It is the policy of Ball High School not to discriminate on the basis of race, ethnic origin, sex, or handicap in its educational program, activities, or employment policies as required by Title IX of the 1972 Educational Amendments.

All courses are open to students regardless of race, sex, color, national origin, creed, disadvantaging or handicapping condition The information in this course guide is subject to change based on decisions made by the Texas State Legislature and Texas Education Agency after January, 2015.

SEMESTER AVERAGING—HIGH SCHOOL COURSE WORK

Students in high school credit courses receive separate and independent grades for each semester for a year long course. Semester averages from the Fall and Spring semester of the same academic year will be averaged to calculate a yearly average for course credit. If the semesters average to a 70 or higher, credit for the entire course will be awarded. The following exceptions apply:

1. Summer School and alternative delivery instruction (e.g. Credit Recovery, Correspondence, etc.) **will not** be considered for semester grade averaging

2. The attendance requirements or a waiver must be met.

GRADING SCALE

A = 90-100

B = 80-89

C = 70– 79

F = 0-69

HONOR GRADUATE REQUIREMENTS

To graduate with Highest Honors, a student must earn a grade point average of 4.0. To graduate with Honors, a student must earn a grade point average of 3.5. Courses shall be classified and weighted as HONORS, AP and DUAL

CLASSIFICATION of STUDENTS

Student classification is determined by cohort (1st-4th years in high school) and the number of credits accumulated by the end of the preceding year.

To be a 9th grade student (freshman)……....successful completion of 8th grade
To be a 10th grade student (sophomore)…….....Second year and 5 credits required
To be an 11th grade student (junior)……..Third year and 10 credits required
To be a 12th grade student (senior)……..Fourth year and 15 credits required

For each semester course passed with a 70 or above, the student receives one-half credit

Grade	AP/DC/ HONORS grade pts	Reg grade pts
100	5.0	4.0
99	4.9	3.9
98	4.8	3.8
97	4.7	3.7
96	4.6	3.6
95	4.5	3.5
94	4.4	3.4
93	4.3	3.3
92	4.2	3.2
91	4.1	3.1
90	4.0	3.0
89	3.9	2.9
88	3.8	2.8
87	3.7	2.7
86	3.6	2.6
85	3.5	2.5
84	3.4	2.4
83	3.3	2.3
82	3.2	2.2
81	3.1	2.1
80	3.0	2.0
79	2.9	1.9
78	2.8	1.8
77	2.7	1.7
76	2.6	1.6
75	2.5	1.5
74	2.4	1.4
73	2.3	1.3
72	2.2	1.2
71	2.1	1.1
70	2.0	1.0
Below 70	0	0

CLASS RANK

Class rank for seniors shall be based on a weighted grade point average (GPA) computed from semester grades earned in grades 9-12. Grades earned in high school courses taken in grade 8 shall not be included in the calculation of GPA. Except for grades earned for athletic courses, Tornettes, cheerleading, student aide, student council, band and local courses, all semester grades shall be converted to grade points according to the district's weighted scale.

Courses shall be classified and weighted as AP/HONORS/DUAL CREDIT or regular.

Class rank indicates how a student's grades compare with those of other students in his class. Class rank shall be determined by the number of accumulated grade points divided by the number of courses with final grades.

Estimated class rank is determined for students prior to the fall semester of their sophomore, junior and senior year. Seniors receive three additional rankings which shall be calculated as follows: one in December, one in January, the other at the end of the fifth six weeks to identify honor graduates for commencement exercises. Any graduating student (including students graduating early*) will be ranked with the class with which they graduate. *Students graduating early will be classified as a senior in January ranking.

All correspondence courses are excluded from GPA and/or rank.

All Ball High in person will be weighted according to their classification and be calculated into GPA and/or rank.
Correspondence courses offered through non-Ball High (GISD) entities are excluded from GPA and/or rank.

STATE TESTING INFORMATION

STAAR

Students are required to complete the STAAR assessments in each of the following areas:

Algebra I

Biology

US History

English I

English II

Sample STAAR questions can be found at:

www.tea.state.tx.us/student.assessment/staar

GALVESTON ISD GRADUATION PLAN

FOUNDATION + ENDORSEMENTS—26 CREDITS

- **4 credits English**-English I, II, III, IV or one credit in an advanced English course
- **4 credits Mathematics**-Algebra I, Geometry, two credits in an advanced math course
- **4 credits Science**-Biology, one credit in IPC or in additional authorized advanced science course, two credits in any advanced science course
- **3 credits Social Studies**-US History, Government, Economics, World Geography or World History
- **2 credits Language Other than English or Computer Programming**
- **1 credit Physical Education**
- **1 credit Fine Arts**
- **.5 credits of Professional Communication**
- **6.5 credits in Electives** (may include CTE or certification courses)
- **Credit requirements specific to at least one endorsement**

DISTINGUISHED LEVEL OF ACHIEVEMENT - 26 CREDITS

- **4 credits English**-English I, II, III, IV or one credit in an advanced English course
- **4 credits Mathematics**-Algebra I, Geometry, Algebra II, one credit in an advanced math course
- **4 credits Science**-Biology, one credit in IPC or in any additional authorized advanced science course, two credits in any advanced science course
- **3 credits Social Studies**-US History, Government, Economics, World Geography or World History
- **2 credits Language Other than English or Computer Programming**
- **1 credit Physical Education**
- **1 credit Fine Arts**
- **.5 credits of Professional Communication**
- **6.5 credits in Electives** (may include CTE or certification courses)

FOUNDATION ONLY—22 CREDITS

- **4 credits English**-English I, II, III, IV or one credit in an advanced English course
- **3 credits Mathematics**-Algebra I, Geometry, one credit in advanced math course
- **3 credits Science**-Biology, IPC or an advanced science course, an additional advanced science course
- **3 credits Social Studies**-US History, Government, Economics, World Geography or World History
- **2 credits Language Other than English or Computer Programming**
- **1 credit Physical Education**
- **1 credit Fine Arts**
- **.5 credits of Professional Communication**
- **4.5 credits in Electives**
  (may include CTE or certification courses)

* Students may opt to Foundation-only after completing sophomore year.

ENDORSEMENTS

A student may earn an endorsement by successfully completing:

- Curriculum requirements for the endorsement
- Four credits in math
- Four credits in science
- Two additional elective credits
- Endorsements may be earned in the following areas:

STEM, Business & Industry, Public Service, Arts & Humanities, and Multidisciplinary endorsements may be earned in all 4 small learning communities at Ball High School.

DISTINGUISHED LEVEL OF ACHIEVEMENT

A student may earn a distinguished level of achievement by successfully completing:

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

A student must earn distinguished level of achievement to be eligible for top 10% automatic admission to state colleges and universities

PERFORMANCE ACKNOWLEDGEMENTS

A student may earn a performance acknowledgment:

- For outstanding performance

1. in a dual credit course - at least 12 college hours With a 3.0 or higher, *or*

2. in bilingualism and bi-literacy
   a. Completing all ELA requirements with a minimum of 80 as an average **AND**
   b. Completion of at least 3 credits in the same language with a minimum of 80 as an average

Or

3. on an AP test with a score of 3 or higher, *or*

4. on the PSAT by earning a score that qualifies for recognition as a commended scholar or higher, or the SAT by earning a combined critical reading and math score of at least 1250, or the ACT by earning a composite score of 28 (excluding writing)

OR

- For earning a nationally or internationally recognized business or industry certification or license

Ball High Communities

Science, Technology, Engineering & Mathematics (STEM)

The STEM community will provide students with a curriculum focused towards discipline in science, technology, engineering and mathematics. Students are highly encouraged to take Honors and Advanced Placement courses as well as have an opportunity to receive career themes information, project based instruction, and challenging real world experiences in the form of internships and innovative learning opportunities. Students participating in this community will have the opportunity to earn a STEM endorsement from the state of Texas.

Pd	9th Grade	10th Grade	11th Grade	12th Grade
1	English 1	English II	English 3	English 4
2	Geom /Alg 1	Alg II/Geom	Pre-Cal/Alg II	Adv Math/ Pre-Cal
3	Bio/Chem	Bio/Chem	Adv Science	4th Year Science
4	US Hist	W. Hist/W. Geo	Gov/Eco	Soc Stud
5	Intro Community Course	Intermediate Community Course	Advanced Community Course	Advanced Community Course
6	Foreign Lang/ Comp Sci	Foreign Lang/ Comp Sci	Speech/Elect	Elective
7	PE or Substitute	Elective	Elective	Elective
8	Fine Arts	Elective	Elective	Elective

Biomedical Engineering and the Medical Professions

Students participating in this community will be exposed to curriculum and careers related to science, with an emphasis in health care, bioscience and medical engineering. The biomedical engineering community is specifically tailored to prepare students for college entry to further their education in the medical sciences. Students that take Honors and Advanced Placement courses receive career themed information, project based classroom instruction, and challenging real world experiences with internship opportunities at UT Medical Branch and innovative learning opportunities. Students participating in this community will have the opportunity to earn a STEM and Public Service endorsements from the state of Texas..

Pd	9th Grade	10th Grade	11th Grade	12th Grade
1	English 1	English II	English 3	English 4
2	Alg 1/Geom	Geom/Alg II	Alg II/Pre-Cal	Pre-Cal/ 4th Year Math
3	Bio/Chem	Bio/Chem	Adv Science	4th Year Science
4	US Hist	W. Hist/W. Geo	Gov/Eco	4th Soc Stud
5	Intro Community Course	Intermediate Community Course	Advanced Community Course	Advanced Community Course
6	Foreign Lang/ Comp Sci	Foreign Lang/ Comp Sci	Speech/Elect	Elective
7	PE or Substitute	Elective	Elective	Elective
8	Fine Arts	Elective	Elective	Elective

Media Arts and Digital Technology

Students participating in this community will take a college ready curriculum that intersects with media arts and design. The goal of this community is to ensure that students have the knowledge and skills to excel in core subject areas and succeed in college, while promoting their interests and talents in media arts and technology. Students are challenged to apply their skills through digital photography, film, animation, web design, broadcasting and graphic design. Students are encouraged to take Honors and Advanced Placement courses as well as participate in career themed internships, project-based classroom instruction, challenging real world experiences and innovative learning opportunities.

Pd	9th Grade	10th Grade	11th Grade	12th Grade
1	English 1	English II	English 3	English 4
2	Alg 1/Geom	Geom/Alg II	Alg II/Pre-Cal	Pre-Cal/ 4th Year Math
3	Bio/IPC/Chem	Bio/IPC/Chem	3rd Year Science	4th Year Science
4	US Hist	W. Hist/W. Geo	Gov/Eco	4th Soc Stud
5	Intro Community Course	Intermediate Community Course	Advanced Community Course	Advanced Community Course
6	Foreign Lang/ Comp Sci	Foreign Lang/ Comp Sci	Speech/Elect	Elective
7	PE or Substitute	Elective	Elective	Elective
8	Fine Arts	Elective	Elective	Elective

Innovation and Entrepreneurship

This community builds invaluable outlooks, skill sets and relationships necessary for developing innovative, impactful solutions to today's problems in the business and finance worlds. The goal of this community is to ensure students have the knowledge and skills to excel in core subject areas that will provide a solid foundation for future college coursework while promoting their interests in business development, social services and global markets. Students are encouraged to take Honors and Advanced Placement courses as well as participate in career themed internships, project-based classroom instruction, challenging real world experiences and innovative learning opportunities. Internships are available with assistance from the Galveston Chamber of Commerce with over 800 members to draw from to provide real world job shadowing opportunities in Galveston. Participating students will be eligible for an endorsement from the state of Texas in Business and Industry or Public Service.

Pd	9th Grade	10th Grade	11th Grade	12th Grade
1	English 1	English II	English 3	English 4
2	Alg 1/Geom	Geom/Alg II	Alg II/Pre-Cal	Pre-Cal/ 4th Year Math
3	Bio/IPC/Chem	Bio/IPC/Chem	3rd Year Science	4th Year Science
4	US Hist	World Hist	Gov/Eco	4th Soc Stud
5	Intro Community Course	Intermediate Community Course	Advanced Community Course	Advanced Community Course
6	Foreign Lang/ Comp Sci	Foreign Lang/ Comp Sci	Speech/Elect	Elective
7	PE or Substitute	Elective	Elective	Elective
8	Fine Arts	Elective	Elective	Elective

SCHEDULING GUIDELINES

Galveston ISD strives to provide the highest quality education while working to be responsive to the individual student's needs. The participation and commitment of parents and students during registration and scheduling is a major component in reaching this goal.

Master schedules are developed in the spring prior to the upcoming school year. Selections during registration indicate how many teachers and sections will be needed for a course. The process allows administrators to plan and staff for optimum academic strength. For this reason, it is critical to make registration choices carefully. There is no guarantee that changes can be made once the current school year is over.

Registration and scheduling procedures are as follows:

1. During the spring semester, counselors will provide information to students about the registration process. Included will be information regarding course selection & career pathways. Registration forms should be completed by students and parents prior to individually meeting with counselors.

2. Students will meet individually with their counselor to complete their registration form and their personal graduation plan.

3. Students who do not have the paperwork completed may have limited choices in the scheduling process. * Courses will be selected for the student by the counselor and are final.

POLICIES AND PROCEDURES

Senior Year Schedule: Senior students are required to take 8 courses regardless of the number of credits they need to graduate. A student must have passed all portions of the STAAR tests to be allowed early release which may be included as part of the 8 required courses. Seniors who have 1 or more portions of STAAR remaining will be placed in STAAR remediation courses.

Attendance Requirement: An important learning objective of all BHS classes is to help prepare students for the world of work. Good attendance is therefore necessary. **More than 10 absences in a semester will result in denial of credit**. See an assistant principal to determine if methods for reinstatement of credit are available to each individual.

Dropping and Changing Classes: Classes that students choose during registration for both fall and spring semesters are considered FINAL. No changes will be made from selected courses. The student request must be submitted on a Class Change Request Form during the first week of each semester. The form requires signed approval by lead counselor. Changes will be confined to the first week of each semester.

Leveling Classes: During the first two weeks of each semester, schedules may be adjusted by administration to balance class sizes as needed.

HONORS AND ADVANCED PLACEMENT (AP) COURSES

HONORS:
HONORS is defined as any course students take which leads to success:

- in an Advanced Placement course, and/or
- on an Advanced Placement exam, and/or
- in any course of study regardless of whether students attend a four-year university, a community college, a technical institute, or enter the work-place.

All HONORS courses offer the opportunity to:

- provide students with the skills and strategies necessary to be independent successful learners.
- challenge the student's creative and analytical reading, thinking, presenting, and writing skills.
- align with a standard of performance as indicated by AP examinations.
- become lifelong learners who participate yearly in AP conferences and institutes.

ADVANCED PLACEMENT:
The purpose of College Board Advanced Placement (AP) courses is to prepare the students for college work and/or AP exams that provide students the opportunity to receive college credit. By earning a college's required grade on an AP Exam (usually a 3, 4, or 5), students may receive the equivalent of credit for a semester's or year's worth of coursework. This could also save the student (parent) the cost of tuition or books for that required course.

A Ball High School Advanced Placement course follows the curriculum developed by the College Board Advanced Placement Program. (A Ball High student enrolled in an AP course studies a standardized curriculum similar to other AP courses offered across the country.) A course designated as AP is therefore recognized nationally by high schools, colleges, and universities for the consistency of its curriculum.

ADVANCED PLACEMENT COURSES:

- are more demanding than regular high school courses
- are recommended for highly motivated students.
- are different from the regular high school courses in that they are taught with college curricula and college level materials. (The curriculum of an AP course is at an accelerated pace, and performance is assessed at the analysis and synthesis level).
- allow students the opportunity to engage in subjects at a greater depth than regular courses.
- give the students the background and preparation that will prove beneficial for student success when enrolled in college.

APPROVED FOR CLASS OF 2026
(9TH GRADE ENTERING 2022-23)
Ball High School 3RD AND 4TH (5th) Advanced CTE Courses for Endorsements

Computer Science 3
Computer Science 4-Cybersecurity
Microbiology
Scientific Research & Design
PLTW Digital Electronics
PLTW Aerospace Engineering
PLTW Civil Engineering
Robotics 3
Robotics 4 (Practicum in STEM 1)
Robotics 5 (Practicum in STEM 2)
AV Production 2
Practicum in AV Production
Video Game Design 1
Video Game Design 2 (ESports)
Graphic Design 2
Practicum in Graphic Design
Commercial Photography 2
Practicum in Commercial Photography
Entrepreneurship/Incubator
Practicum in Business Management—Incubator 2
Practicum in Education—BESTT
Practicum in Hospitality
Industrial Trades & Operations 2
Practicum Industrial Trades & Operations
Automotive 2
Veterinarian Medicine Applications—Lab
Advanced Animal Science
Practicum in Agriculture (Vet-Tech Internship)

ALL ADVANCED PLACEMENT, HONORS, AND DUAL CREDIT/CONTINUING EDUCATION (GALVESTON COLLEGE) COURSES ARE CURRENTLY APPROVED ON THE 5.0 SCALE.

DUAL CREDIT

Ball High students in conjunction with Galveston College, have the opportunity to earn high school credit through college course credit. Students may choose to earn college credit by enrolling at Galveston College under the dual credit arrangement during the school year and/or summer. Theses courses are taught on the Ball High campus, Galveston College campus, and/or online.

To participate in this program, students register at Ball High **and** Galveston College during the prior school year. Students may also be required to pay Galveston College tuition and fees. Costs are set by the college.

To be eligible to take dual coursework, students must meet one of the following requirements (depending on the dual courses the students desires to take) :

1. Take the TSI assessment and assess as college ready
2. Take the ACT test and score a composite of 23 or higher with a minimum of 19 or higher in the corresponding sections of the English or Math
3. Take the SAT and score a minimum of 530 in mathematics and a 480 in verbal
4. Take the PSAT/NMSAT and score a minimum of 460 on evidence-based reading and writing test and/or a score of 510 on the mathematics test.
5. Achieve a score of 4000 on English II STAAR EOC and /or a score of 4000 on the Algebra I STAAR EOC and in conjunction, a passing grade in the Algebra II Course.

Contact
Ball High Counseling Office
409.766.5736
or
Galveston College Admissions

Academic Courses for Dual Credit

Ball High Course	*Galveston College Course*	*Galveston College Course*
Art Appreciation	**ARTS 1301**	
Biology	**BIOL 1406**	**BIOL 1407**
Business Comm	**SPCH 1321**	
Calculus AB/BC	**MATH 2413 (Calculus I)**	**MATH 2414 (Calculus II)**
Chemistry	**CHEM 1411**	**CHEM 1412**
College Alg/Pre-Calc	**MATH 1314 (College Algebra)**	**MATH 2312 (Pre-Calculus)**
Criminal Justice	**CRIJ 1301**	**CRIJ 1306**
English III or English IV	**ENGL1301**	**ENGL1302**
English IV	**ENGL 2332**	**ENGL 2333**
Environmental Science	**ENVR 1301/ENVR 1101**	**ENVR 1302/ENVR 1102**
European History	**HIST 2311**	**HIST 2312**
Federal Government	**GOVT 2305**	
Intro to Theater	**DRAM 2366**	
Music Appreciation	**MUSI 1306**	
Psychology	**PSYC 2301**	

Sociology	SOCI 1301	
Tech Writing (elective)	ENGL 2311	
Texas Government	GOVT 2306	
US History	HIST1301	HIST 1302

Workforce Courses for Dual Credit

Cosmetology	CSME 1501, CSME 1410(yr 1) CSME 1453, CSME 2401 (yr 2)	CSME 1354, CSME 1543 (yr 1) CSME 1547, CSME 2541 (yr 2)
Culinary Arts	CHEF 1302, CHEF 2302	IFWA 1217, PSTR 1301
Electrical and Electronics Technology	ELPT 1221, ELPT 1411, ELPT 1325, CETT 1402, ELPT 1345	INTC 1457, CETT 1307, ELPT 2319, CETT 1415
EMT	EMSP 1501	EMSP 1160
LVN (Pre-reqs)	VNSG1227	
HVAC/R	HART 1401, HART 1403, HART 1407, HART 1410	HART 1345, HART 1356, HART 1441, HART 2401
IT Network Admin	ITCC 1414 or ITNW 1425	ITNW 1405, ITNW 1457
Maritime Logistics	LMGT 1319, IBUS 1341	LMGT 1321, OSHT 1301
Maritime Logistics Pract	LMGT 1425, IBUS 1301	MARA 1370, LMGT 1423
Medical Terminology	HITT 1305	HRPS 1201, HITT 1353
Welding I	WLDG 1407	WLDG 1434
Welding II	WLDG 2443	WLDG 1435
Welding Practicum	WLDG 2413	WLDG 1317

Continuing Education Courses for Dual Credit

Cosmetology	CSME 1501, CSME 1410(yr 1) CSME 1453, CSME 2401 (yr 2)	CSME 1354, CSME 1543 (yr 1) CSME 1547, CSME 2541 (yr 2)
Diesel Technology	DEMR 1010, AUMT 1401, AUMT 1012	DEMR 2012, AUMT 1045, AUMT 1007
EMT		EMSP 1091
IT Computer Support	ITSC 1025	ITNW 1044, ITSC 1044
Logistics (ROTC Seniors)		LMGT 2002
PCT 1	NURA 1001,NURA 2005	PLAB 1023, PLAB 1060
PCT 2	MDCA 1009, MDCA 1000	MDCA 2031, HPRS 2000, MDCA 2031
Pipefitting	PFPB 1008	PFPB 1043

**Any dual credit course other than those listed above must be pre-approved by GISD before taking.

Dual Credit Academy

Ball High Students, in conjunction with Galveston College, that meet the following criteria may be eligible to participate in Ball High's Dual Credit Academy.

- Top 60 who are unofficially ranked after the fall of freshmen year are invited to participate in the academy.
- Summer bridge is required during summer after freshmen year that will provide 3 college hours and TSI test prep and test completion
- College Ready before sophomore year
- The 42 hours earned during high school are the core hours offered in every 4-year degree plan in every public 4 year college and university in the state Texas
- Automatic transfer and acceptance of these hours
- Takes the guess work out of what dual credit to take, what will be accepted, etc…

To participate in this program, students register at Ball High **and** Galveston College during the prior school year. Students may also be required to pay Galveston College tuition and fees. Costs are set by the college.

Universities and Colleges require students to take a test for college admission

SAT ACT TSI

SAT www.collegeboard.org

Each assessment in the SAT Suite of Assessments — the SAT, PSAT/ NMSQT, PSAT 10, and PSAT 8/9 — includes a Reading Test, a Writing and Language Test, and a Math Test. The SAT also features an optional essay component, which some colleges will require. Questions throughout the assessments focus on skills that matter most for college readiness and success, according to the latest research.

Students are required to register on-line @ www.collegeboard.com. Study guides and practice tests are available on the College Board website. Refer to the website for testing dates offered at Ball High School.

There is a fee required to register for the exam. Fee waivers are available from your student's high school counselor for students that qualify.
Campus ID numbers used for test registration are 442690.
Some colleges require SAT II exams in addition to SAT I. These are subject area tests in such disciplines as language, math, social studies, and science.

ACT - American College Test www.act.org

The ACT is a college entrance exam. The test is a set of four multiple choice questions which cover English, math, reading, science and an optional writing test. Students are required to register on-line @ www.act.org.

Study guides and practice tests are available on-line www.act.org. Multiple testing dates are offered each year, please refer to the website for more details. The assessment has a fee associated with the exam and must be paid upon registration. Fee waivers are available from your student's high school counselor for student's that qualify.

Campus ID number used for ACT is 442690

TSIA2.0—Texas Success Initiative Assessment 2.0

The Texas Success Initiative Assessment 2.0 (TSIA2) is a series of placement tests for students enrolling in public colleges and universities in Texas. The tests help Texas schools determine whether you're ready for college-level courses in the areas of reading, writing, and math. If you're not ready for college-level courses, the tests help determine what types of courses or intervention will best prepare you for college-level course work. TSI is offered on the Ball High School campus.

The National Collegiate Athletic Association (NCAA) Core Curriculum

Many college sports are regulated by the National Collegiate Athletic Association (NCAA), an organization that has established rules on eligibility, recruiting, and financial aid. If students are applying to college and plan to participate in Division I or Division II sports, they must be certified by the NCAA Initial Eligibility Clearinghouse. The Clearinghouse will analyze academic information and determine if students meet the NCAA's initial eligibility requirements.

Specific academic requirements for Division I and Division II sports can be found on the NCAA website at www.ncaa.org.

Athletes must register with Core Course GPA for eligibility verification.

Students wanting to participate in Division I or Division II sports should start the certification process by the end of their 8th grade year.

A free copy of the Guide for College Bound Athletes is available by calling 1-888-638-3731 or by visiting the website at www.ncaa.org.

For more information contact:

GISD Athletic Director……409.766.5883

Or your student's athletic coach

Ball High School Courses

ENGLISH LANGUAGE ARTS

PLACEMENT GUIDELINES / RECOMMENDATIONS

HONORS/AP: Ball High School is committed to the success of ***every*** student. Honors and AP courses offer opportunities for students to experience rigorous coursework which prepares them for college and positions them to acquire college credit through the Advanced Placement exams. ***Any student who has the desire to meet the demands of challenging coursework is eligible to enroll in Honors and AP courses***. Students are required to pass their state assessments to enroll in an AP course. Students who want to enroll in Honors and AP courses should visit with their counselor for more detail and discussion.

ENGLISH 1 **ENG 121**

Prerequisite: None Grade 9 1 Credit

Students will continue to enhance and refine their communication skills. They write in a variety of Forms where an emphasis is placed on the development of theses, organization, and elaboration of logical arguments. Students are expected to edit their papers for clarity, engaging language, and the correct use of the conventions and mechanics of written English-producing error-free final drafts. Additionally, students read extensively in multiple genres from world literature and learn literary terms associated with the selections being read.

ENGLISH 1 HONORS **ENG 115**

Prerequisite: Meet Honors Placement Guidelines Grade 9 1 Credit
Summer reading requirement

Honors classes emphasize advanced reading, analytical reasoning skills, and expository writing in preparation for the Advanced Placement exams in language and literature given during the junior and senior years.

ENGLISH 2 **ENG 221**

Prerequisite: English I Grade 10 1 Credit

The sophomore curriculum integrates reading, writing, speaking, listening, and thinking skills with a wide variety of world literature as a base . This class will utilize collaborative, process—oriented instructional strategies to create a student—centered classroom environment. Students will learn about the composing process, multi—paragraph compositions, writing for purpose, and evaluative writing with documentation, critical thinking skills, literary analysis, reading comprehension, Vocabulary, and oral communication. These strategies and skills will enable the student to participate and communicate effectively in an increasingly complex society.

ENGLISH 2 HONORS **ENG 215**

Prerequisite: Meet Honors Placement Guidelines Grade 10 1 Credit
Summer reading requirement

English 2 Honors prepares students for college-credit AP courses that follow. In addition to covering the essential elements of English 2, this course emphasizes advanced placement skills including further refinement in grammar/usage/sentence structure study, Intensive literary analysis, extensive independent reading, and writing in various literary formats. It also involves vocabulary building, literary genre study, and independent research.

ENGLISH 3 **ENG 321**

Prerequisite: English 2 Grade 11 1 Credit

Junior English has an integrated curriculum consisting of reading, writing, and listening/ speaking/media. In reading, we focus primarily on works from American authors, and in writing we create personal, business, and Critical pieces, including documented essays with primary and secondary sources. Treatment of grammar and mechanics is usually individualized to meet a particular student's needs within the writing process. Vocabulary generally comes from works read so that the words are meaningful and not isolated; however, we will study vocabulary words (and etymology) that are used frequently on the SAT. Listening/speaking/media is generally integrated with the reading and writing, although we also look at ways that the particular presentation of an idea (medium) affects our comprehension of it.

ENGLISH 3 AP **ENG 315**

Prerequisite: Meet AP Placement Guidelines Grade 11 1 Credit
Summer reading requirement

English 3 AP prepares students to take the English Language and Composition Exam for which they might earn college credit. In addition to covering the essential elements of English 3, this course includes features of the Advanced Placement program. Emphasis is placed upon in-depth study of major works of American literature, development of high level literary analysis skills which are reflected in students' essays of literary analysis, study of major rhetorical forms, and development of personal writing style. The course also involves extensive outside reading and a research project.

ENGLISH 3 DC 1301/1302 **ENG 390**

Prerequisite: English 2 and Meet College Requirements Grade 11 1Credit

This advanced level English 3 course is a College course for high school credit. It focuses on the student's ability to think objectively and communicate effectively. Major areas include the writing process, sentence structure, basic essay organization, rhetorical modes, and analysis of writing, as well as some aspects of British and contemporary literature. Course will include research project.

ENGLISH 4 **ENG 421**

Prerequisite: English 1, 2 and 3 Grade 12 1 Credit

This course fuses reading, language and writing with British literature. Focus is on literary and composition skills. Short literature selections as well as four to six novels are included in the curriculum. Students also required to do a literary analysis research project.

ENGLISH 4 AP **ENG 415**

Prerequisite: Meet AP Placement Guidelines Grade 12 1 Credit
Summer reading requirement

AP English 4 prepares students to take the English Literature and Composition Exam for which they might earn College credit. In addition to covering the Texas Essential Knowledge and Skills (TEKS) of English 4, the course adheres to criteria for the Advanced Placement program. This course involves extensive reading from various genres and cultures. Analytical writing and discussion are required . Students are expected to sit for the National AP exam.

ENGLISH 4-COMP1 & COMP2 DC 1301/1302 **ENG 590**
Prerequisite: English 3 Meet College Requirements Grade 11 1 Credit

This advanced level English 4 course is for college credit as well as high school credit. It focuses on the student's ability to think objectively and communicate effectively. Major areas include the writing process, sentence structure, basic essay organization, rhetorical modes, and analysis of writing, as well as some aspects of British and contemporary literature. Course will include research project.

MYTHOLOGY I (ELECTIVE CREDIT) **ENG 500**
Prerequisite: None Grades 10-12 1/2 Credit

Classical Mythology is a survey of ancient Greek and Roman stories about heroes, gods and the universe and illustrates the influence of these myths on the art, literature and culture of the modern world. Study of these ancient myths forces us to reevaluate our own questions and answers, our own way of looking at the world, and our place in it. This course involves a great deal of reading and writing. The student's progress is periodically assessed with a 2-3 page essay.

MYTHOLOGY II (ELECTIVE CREDIT) **ENG 501**
Prerequisite: None Grades 10-12 1/2 Credit

This course focuses on the study and understanding of Native American myths and beliefs made through literature, oral traditions, and lifestyles. This class also introduces Norse and Middle Eastern mythology through the study of themes and narratives that emphasize the importance of mythical elements to the modern world. This course involves a great deal of reading and writing. The student's progress is periodically assessed by a 2-3 page essay.

ENGLISH 4-BRITISH LITERATURE DC (ELECTIVE CREDIT) **ENG 490**
Prerequisite: English 1301 Meet College Requirements Grade 12 1/2 Credit

English elective course is for college credit as well as high school credit.
It focuses on the student's ability to think objectively and communicate effectively.
Major areas include selected significant works of British Literature. Class will include study of movements, schools, or periods, as well as various writing on selected texts.
Course will include research project.

TECHNICAL WRITING DC (ELECTIVE CREDIT) **ENG 690**
Prerequisite: English 1301 DC Grade 12 1/2 Credit

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.

READING 1-3 **RDL 301-303**
Prerequisite: None Grades 9 –11 1 Credit

Freshmen are taught basic reading and study skills. An integrated approach through Reading and writing prepares students for the STAAR test.

SPEECH & DEBATE COURSES

PROFESSIONAL COMMUNICATIONS **COM 600**
Prerequisite: None Grades 10-12 1/2 Credit

The major focus of this course will be communication skills that are essential for successful participation in social and professional life. Increasing technology and changing social and corporate systems demand that students be effective in sending clear verbal messages, choosing appropriate nonverbal behaviors, listening for desired results and applying critical thinking and problem solving processes to real world experiences.
This course is required for graduation.

BUSINESS & PROFESSIONAL COMMUNICATION DC **COM 605**
Prerequisite: Meet College Requirements Grades 10-12 1/2 Credit

Study and application of communication within the business and professional context. Special emphasis will be given to communication competencies in presentations, dyads, teams and technologically mediated formats. This course is a dual-credit course; students will meet speech graduation requirements for high school through this course.

DEBATE 1 **COM 531**
Prerequisite: None Grades 10 1 Credit

Debate focuses on the theories of Team Debate, Cross-Examination Debate, and Lincoln -Douglas Debate with specific emphasis on the state adopted resolution for high school competition, including: affirmation and negative case construction, team and individual research and practice rounds, and tournament competition. Weekend traveling is involved to compete in TFA & UIL debate tournaments. The course requires the student to use actual practical application as a member of the Ball High Debate Team.

DEBATE 2 & 3 **COM 532 & 533**
Prerequisite: Instructor Approval Grades 11—12 1 Credit

These courses concentrate on national resolution analysis, affirmative and negative case construction, brief preparation and argument evaluation. Students prepare arguments and briefs used in tournament debates. Students are required to attend TFA tournaments and UIL activities assigned by the instructor.

MATHEMATICS

PLACEMENT GUIDELINES / RECOMMENDATIONS

HONORS/AP: Ball High School is committed to the success of ***every*** student. Honors and AP courses offer opportunities for students to experience rigorous coursework which prepares them for college and positions them to acquire college credit through the Advanced Placement exams. ***Any student who has the desire to meet the demands of challenging coursework is eligible to enroll in Honors and AP courses***. Students are required to pass their state assessments to enroll in an AP course. Students who want to enroll in Honors and AP courses should visit with their counselor for more detail and discussion.

ALGEBRA 1 — MTH 121

Prerequisite: Grade 8 Math | Grades 9-12 | 1 Credit

This course develops a foundation for all higher—level mathematics courses. The functional approach as mandated by the Texas Essential Knowledge and Skills (TEKS) is used to cover all of the Algebra 1 essential knowledge and skills. Algebraic topics to be coved include linear equations and inequalities in one and two variables, operations with polynomials, graphing and solving functions (linear and quadratic, and an introduction to rational and radial expressions).

GEOMETRY — MTH 321

Prerequisite: Algebra I | Grades 9-12 | 1 Credit

Geometry connects to algebra and to world outside of school through a variety of applications. Students will study geometric structure and patterns dimensionally. Students will also study the geometry of location and congruence, as well as the geometry of size, similarity and shape. Students will have access to technology for analysis and computation.

GEOMETRY HONORS — MTH 315

Prerequisite: Meet Honors Placement Guidelines, Alg 1 | Grades 9-12 | 1 Credit

Geometry Honors provides students college-level work in high school mathematics. The work load of this class is rigorous and intensive. Students will have homework daily and projects will be completed each six weeks. Geometry connects to algebra throughout the course and connects to the world outside of school through a variety of applications. Students will study geometric structure, geometric patterns, dimensionally and the geometry of location, congruence and the geometry of size, similarity and the geometry of shape. Students are expected to have access to technology for analysis and computation.

MATHEMATICS MODELS WITH APPLICATIONS **MTH 221**

Prerequisite: Algebra 1 Grades 11-12 1 Credit

Students use mathematical methods to model and solve real-life applied problems involving money, data, chance, patterns, music, design, and science. Students use mathematical 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.

ALGEBRA 2 **MTH 421**

Prerequisite: Alg I , Geometry Grades 10-12 1 Credit

Algebra 2 provides students with an in-depth look at functional relationships in problem solving situations. Students will study foundations for functions, algebra and geometry, quadratic and square root functions, rational functions, and exponential and logarithmic functions. Students are expected to have regular access to technology for analysis and computation.

ALGEBRA 2 HONORS **MTH 415**

Prerequisite: Meet Honors Placement Guidelines Alg 1, Geometry Grades 10-12 1 Credit

Algebra 2 provides students with an in-depth look at functional relationships in problem solving situations. Students will study foundations for functions, algebra and geometry, quadratic and square root functions, rational functions, and exponential and logarithmic functions. Students are expected to have regular access to technology for analysis and computation.

PRE-CALCULUS **MTH 501**

Prerequisite: Algebra II Grades 11-12 1 Credit

Pre-calculus uses symbolic reasoning and analytical methods to represent mathematical situations, to express generalizations, and to study mathematical concepts and the relationships among them. Students use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Topics in algebra, geometry, probability, statistics, trigonometry, and calculus will be modeled in physical situations. Students are expected to have access to technology for analysis and computation.

PRE-CALCULUS HONORS **MTH 515**

Prerequisite: Meet Honors Placement Guidelines, Alg II Grades 11-12 1 Credit

Pre-calculus Honors provides students college-level work in high school mathematics. The work load of this course is rigorous and intensive. Students will have homework daily and projects will be completed each six weeks. Pre-calculus uses symbolic reasoning and analytical methods to represent mathematical situations, to express generalizations, and to study mathematical concepts and relationships among them. Students use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Topics in algebra, geometry, probability, statistics, trigonometry, and calculus will be modeled in physical situations. Students are expected to have access to technology for analysis and computation.

COLLEGE ALG/PRE-CALCULUS DC — MTH 520

Prerequisites: Meet College Requirements, Alg II | Grades 11-12 | 1 Credit

Dual Pre-Calculus provides students college—level work in high school mathematics. The course awards students college credit for one semester of College Algebra and one semester of Trigonometry. The work load of this course is rigorous and intensive. Pre—Calculus uses symbolic reasoning and analytical methods to represent mathematical situations, to express generalizations, and to study mathematical concepts and relationships among them. Students use functions, equations, and limits as useful tools for expressing generalizations and as means for analyzing and understanding a broad variety of mathematical relationships. Topics in algebra, geometry, probability, statistics, trigonometry, and calculus will be modeled in physical situations. Students are expected to have access to technology for analysis and computation.

COLLEGE ALGEBRA PREPARATION — MTH 701

Prerequisites: Algebra II | Grade 12 | 1 Credit

Designed for students who have completed Algebra II but need to strengthen their algebra skills before taking Pre– Calculus or college level math. Students will extend their level of math skills and reasoning beyond the topics covered in Algebra II. Some topics include functions and basic trigonometry. This course must be taken prior to earning credit in Pre—Calculus.

CALCULUS AB ONLY AP — MTH 806

Prerequisite: Meet AP Placement Guidelines, Pre-Cal | Grades 12 | 1 Credit

Calculus AB provides students college-level work in high school mathematics. The work load of this course is rigorous and intensive. Students will have homework daily and projects will be completed each six weeks. All topics will be covered in preparation for the Advanced Placement Calculus AB exam.

CALCULUS AB/BC AND LAB DC — DC: MTH 870/ 871/LOC870

Prerequisite: Meet AP Placement Guidelines ,Pre-Cal DC | Grades 12 | 2 Credits

Calculus AB/BC develops the students' understanding of the concepts of calculus and provides experience with methods and applications. The course emphasizes a multi-representational approach to calculus, with concepts, results, and problems being expressed geometrically, numerically, analytically, and verbally. Through the study of derivatives, integrals, limits, approximation, and applications and modeling, the course provides the foundation for higher level mathematics courses taught in most universities. Calculus AB/BC provides students college-level work in high school mathematics. The work load of this course is rigorous and intensive. Students will have homework daily and projects will be completed each six weeks. All topics will be covered in preparation for the Advanced Placement Calculus AB/BC exam.

AP STATISTICS MTH 805

Prerequisite: Honors Alg 2 or Pre-Calculus Grades 11—12 1 Credit

AP Statistics is designed for students who wish to complete studies equivalent to a one—semester, introductory, non—calculus based college course in statistics. The purpose is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students are exposed for four broad conceptual themes: (1) Exploring data: describing patterns and departures from patterns; (2) Sampling and Experimentation: planning and conducting a study: (3) Anticipating Patterns: exploring random phenomena using probability and simulation: (4) Statistical Inference: estimating population parameters and testing hypothesis.

SCIENCE

PLACEMENT GUIDELINES / RECOMMENDATIONS

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BIOLOGY **SCI 121**
Prerequisite: Passed 8th grade Reading STAAR Grade 9 1 Credit

This laboratory course is oriented toward students following a general curriculum and introduces the basic concepts and theories of the chemical and cellular basis for life, botany, zoology, microbiology, human anatomy and physiology, genetics, evolution, taxonomy, and ecology. Lab exercises are emphasized and special projects are required each semester.

BIOLOGY HONORS **SCI 115**
Prerequisite: Meet Honors Placement Guidelines Grade 9 1 Credit

This laboratory course is designed for advanced college-bound students. It is oriented toward objectives beyond the TEKS in the concepts and theories of chemical and cellular basis for life, botany, zoology, microbiology, human anatomy and physiology, taxonomy, genetics, evolution, and ecology. Students will be expected to read and understand the text on their own, leaving class time for in-depth study of various topics.

BIOLOGY DC/AP **DC:SCI 865/AP:SCI 860**
Prerequisite: Meet College Requirements/AP Guidelines, Bio, Chem Grade 12 1 Credit

This course gives students the opportunity for Advanced Placement in biological sciences and/or college credit by the AP exam or 2 semesters (8 hours) of dual credit through Galveston College. Students are also afforded the opportunity to practice appropriate investigative techniques. The curriculum includes detailed biochemical, organism and population studies. A major portion of class time is devoted to laboratory work.

INTEGRATED PHYSICS & CHEMISTRY **SCI 221**
Prerequisite: None Grades 9-10 1 Credit

This course is one semester of pre-chemistry and one semester of pre-physics to prepare students for more rigorous coursework in upper level science courses. This course must be taken PRIOR to Chemistry or Physics

CHEMISTRY **SCI 321**
Prerequisite: Algebra 1 Grades 9-12 1 Credit

Chemistry is the study of basic principles of chemistry and emphasizes the application of the concepts of chemistry in practical situations.

CHEMISTRY HONORS **SCI 315**

Prerequisite: Meet Honors Placement Guidelines, Algebra 1 Grades 9-12 1 Credit

Honors Chemistry prepares the student for a college freshman course in chemistry or AP chemistry. The laboratory work requires the use of initiative in following written instructions.

CHEMISTRY AP **SCI 850/LOC850**

Prerequisite: Meet AP Placement Guidelines Bio, Chem Grades 10-12 1 Credit

AP Chemistry is a double blocked course that follows the College Board framework. The textbook content must be done independently so that in depth laboratory work supporting the college level curriculum necessary for the AP Chemistry Exam can be completed during class. Students will have opportunities to practice appropriate investigative techniques.

PHYSICS **SCI 421**

Prerequisite: Geometry Grades 11-12 1 Credit

This course studies the interactions between matter and energy and the organization of observed phenomena into useful and meaningful relationships. This course offers an overview of physics for the student who may or may not be college bound.

PHYSICS 1 (Classical) Algebra-Based AP **SCI 800**

Prerequisite: Algebra 2 Grades 11-12 1 Credit

Students will cultivate their understanding of physics and science practices as they explore the following topics: kinetics, dynamics, circular motion and universal law of gravitation, simple harmonic motion, rotational motion, electrostatics, DC circuits, mechanical waves and sound. This course prepares students for the AP Physics 1 exam.

PHYSICS 2 (Modern) Algebra-Based AP **SCI 810**

Prerequisite: AP Physics 1 Grades 12 1 Credit

Students will cultivate their understanding of physics and science practices as they explore the following topics: thermodynamics, fluid statics and dynamics, electrostatics, DC circuits and RC circuits, magnetism and electromagnetism induction, geometric and physical optics, quantum physics, atomic physics, and nuclear physics. This course prepares students for the AP Physics 2 exam and is equivalent to the second semester of an introductory college course in algebra-based physics.

PHYSICS C Calculus Based AP **SCI 820**

Prerequisite: Concurrently enrolled in Calculus Grade 12 1 Credit

Students will explore concepts such as kinematics; Newton's laws of motion, work, energy, and power; systems of particles and linear momentum; rotation; oscillations; and gravitation. You'll do hands-on laboratory work and in-class activities to investigate phenomena and use calculus to solve problems.

ANATOMY & PHYSIOLOGY **SCI 501**

Prerequisite: Biology, IPC or Chemistry Grades 10-12 1 Credit

This course is an overview of the parts of the body and their function. It is designed for the student who is following the general curriculum and has a high interest in the human body. Projects and dissections are required.

MICROBIOLOGY **SCI 830**

Prerequisite: Biology Grades 10-12 1 Credit

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications.

SCIENTIFIC RESEARCH & DESIGN **SCI 840/LOC840**

Prerequisite: Application & Interview Process Grades 12 1 Credit

This course is an independent study requiring placement in a professional science laboratory. The student will work with a professional scientist or a graduate student as a mentor and will participate in a research lab that uses modern equipment, technologies, and research methods. Some classroom instruction will be a part of the study. Students must be able to travel to their assigned laboratory. Time of course fits into regular class schedule, but may also be individually arranged.

AQUATIC SCIENCE **SCI 601**

Prerequisite: Biology, IPC or Chemistry Grades 11-12 1 Credit

Aquatic Science is the composite study of the biological, physical, chemical and geological aspects of the ongoing oceans. Exploration of current issues involving the environment is a vital component of this science course. Students are also involved in many laboratory and local field investigations and projects, including one for the science fair or an approved independent study.

ENVIRONMENTAL SYSTEMS **SCI 650**

Prerequisite: Biology, IPC or Chemistry Grades 11-12 1 Credit

In this course, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students study a variety of topics that include: biotic and abiotic factors in habitats, ecosystems and biomes, interrelationships among resources and an environmental system, sources and flow of energy through an environmental system, relationship between carrying capacity and changes in populations and ecosystems, and changes in environments.

ENVIRONMENTAL SCIENCE DC/AP **DC:SCI875/AP:SCI 870**

Prerequisite: Meet College Requirements/AP Guidelines Grades 11-12 1 Credit

This course, designed for students to receive college credit by the AP Exam in environmental science, is a project-based class. The course allows students to design and develop investigative techniques as it relates to local ecological problems. A major portion of the class is devoted to laboratory and field investigations. Students will be expected to read and understand the text on their own. A designed and developed independent investigation (approved by the instructor) is required.

FORENSIC SCIENCE **SCI 701**

Prerequisite: Biology, IPC or Chemistry Grades 10-12 1 Credit

Students will use a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

SOCIAL STUDIES

PLACEMENT GUIDELINES / RECOMMENDATIONS

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WORLD GEOGRAPHY **SOC 121**

Prerequisite: None Grade 9—10 1 Credit

This course is designed for students to examine people, places and environments at local, regional, national and international scales. Using the eight strands of the Texas Essential Knowledge and Skills (TEKS), students develop global awareness and improve their skills of reading, writing, graph interpretation, map symbol interpretation, current events, and library skills. The study of both physical and cultural geography will be emphasized while relating the material to students' everyday lives and \developing skills for life-long use. Written reports, group and individual projects may be required.

HUMAN GEOGRAPHY AP **SOC 700**

Prerequisite: Meet AP Placement Guidelines Grades 10—12 1 credit

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscapes analysis to examine human social organization and its environmental consequences. They also learn methods and tools geographers use in their science and practice. Reports, charting and graphing, Power—Point/Excel, and current events projects may be required. Students will have the opportunity to earn college credit for this course.

WORLD HISTORY **SOC 221**

Prerequisite: None Grades 9-10 1 Credit

This is a survey course for students preparing them to understand world and national events. Topics for the course may include any and all significant historic events, people and trends having an impact on our world today. Reading, writing and listening to historic accounts and analyzing them is a large part of the course.

U.S. HISTORY **SOC 321**

Prerequisite: None Grades 9-12 1 Credit

This is a survey course of American history post Civil War to the present. Using the eight strands of the Texas Essential Knowledge and Skills (TEKS), this course provides the student with the opportunity to understand some the social, economic, and political forces that have shaped American society. Attention is given to the development of reading, writing, and research skills and limited outside assignments may be given.

US HISTORY HONORS **SOC 315**

Prerequisite: Meet Honors Placement Guidelines Grade 9 –10 1 Credit

This is a survey course of United States history from post Civil War to the present. Skills required for passing the AP exam in American History will be integrated into the course. A significant amount of outside reading and writing are required as well as research projects.

US HISTORY AP **SOC 600**

Prerequisite: Meet AP Placement Guidelines Grades 12 1 Credit

This is a survey course of United States history from 1400 to the present designed to prepare the student for passing the AP exam in American History. A significant amount of outside reading and writing are required as well as research projects.

US HISTORY DC **SOC 605**

Prerequisite: Meet College Requirements Grades 11-12 1 Credit

This is a survey course of United States history from 1400 to the present designed to prepare the student for passing the AP exam in American History. A significant amount of outside reading and writing are required as well as research projects. College credit may be earned. Registration at BHS and Galveston College is required.

US GOVERNMENT **SOC 401**

Prerequisite: None Grades 11-12 ½ Credit

This course emphasizes the general and fundamental workings of the American governmental system. Outside reports and/or projects maybe required.

US GOVERNMENT AND POLITICS AP **SOC 405**

Prerequisite: Meet AP Placement Guidelines Grades 11-12 ½ Credit

This is a survey course of American government specifically designed to prepare the student for passing the AP exam in American government. Significant amounts of outside reading and writing are required as well as research projects and presentations.

US GOVERNMENT AND POLITICS DC **SOC 490**

Prerequisite: Meet College Requirements Grades 11-12 ½ Credit

This is a survey course of American government specifically designed to prepare the student for passing the AP exam in American government. Significant amounts of outside reading and writing are required as well as research projects and presentations. College credit may be earned. Registration at BHS and Galveston College is required.

ECONOMICS **SOC 501**

Prerequisite: None Grades 11-12 ½ Credit

This course deals with the fundamental elements and concepts of economics. The purpose of the course is to improve student understanding of economics by raising their interest in economic issues and by teaching them to reason carefully about economic activity. The class presents personal, local, national, and international issues or events in order to stimulate students' curiosity and to provide them an opportunity to learn and practice economic reasoning.

ECONOMICS AP **SOC 505**

Prerequisite: Meet AP Placement Guidelines Grades 11-12 ½ Credit

This is a survey course of economics designed to give the student thorough understanding of the principles of economics that apply to an economic system as a whole. The course places particular emphasis on the study of national income and price determination, and also develops students' familiarity with economic performance measures, economic growth, and international trade.

WESTERN CIVILIZATION DC **SOC805**

Prerequisite: Meet College Requirements Grade 12 1 Credit

A survey course designed to introduce the student to the history of western civilization from the time of Ancient Greece and Rome to the present day, This course will encompass exploration of the important political, military, religious, intellectual and cultural developments.

SOCIOLOGY (ELECTIVE CREDIT) **SOC 910**

Prerequisite: None Grades 10-12 ½ Credit

This course includes a brief survey of society, social institutions, and social relationships. Study focuses on the process of interaction, organized patterns of collective behavior and the structure and function of human groups.

SOCIOLOGY DC (ELECTIVE CREDIT) **SOC 915**

Prerequisite: Meet College Requirements Grades 11-12 ½ Credit

This course includes a brief survey of society, social institutions, and social relationships. Study focuses on the process of interaction, organized patterns of collective behavior and the structure and function of human groups.

PSYCHOLOGY (ELECTIVE CREDIT) **SOC 920**

Prerequisite: None Grades 10-12 ½ Credit

This course is an introduction to psychology which considers the development of the individual and the personality. Students will focus on topics such as theories of human development, personality, motivation, and learning.

PSYCHOLOGY DC (ELECTIVE CREDIT) **SOC 925**

Prerequisite: Meet College Requirements Grades 11-12 ½ Credit

This course is an introduction to psychology which considers the development of the individual and the personality. Students will focus on topics such as theories of human development, personality, motivation, and learning.

PSYCHOLOGY AP/ADVANCED PROBLEM SOLVING (ELECTIVE CREDIT) **SOC 900 & SOC 901**

Prerequisite: None Grades 10 –12 1 Credit

This course is the equivalent of an introductory level college course in psychology— the scientific study of behavior and mental processes. This course is designed for the student to take and pass the AP exam and receive college credit for the course. These two courses are paired.

FINE ARTS

ART 1 **ART 101**

Prerequisite: None Grades 9-12 1 Credit

This course emphasizes the study of basic art concepts through design and composition and will explore the use of a variety of media. The student will develop skills, abilities and techniques used to learn two-dimensional designs.

ART 2 **ART 102**

Prerequisite: Art 1 Grades 10-12 1 Credit

Applied visual art is designed to expand a student's experience in working with basic art concepts and to introduce additional techniques and media related to areas of drawing and painting.

ART 3 2D Design & Drawing HONORS **ART 103**

Prerequisite: Art 2 Grades 10-12 1 Credit

This course expects students to develop a comprehensive portfolio displaying clear student voice and focused exploration. Emphasis will be placed on the production of a body of quality art work. This includes a student's generated sketchbook representing personal voice, style, and ideation. Students will address all three sections of the AP Studio Art 2-D and Drawing portfolio: Breadth, Concentration and Quality, as well as artistic integrity. Students will be challenged to develop their own personal response to demonstrate mastery of concept, composition, and execution of their personal idea and themes.

ART 4 Studio - 2D Design & Drawing AP **ARL 104**

Prerequisite: Art 3 Grades 11-12 1 Credit

The AP Studio Art 4 program enables highly motivated students to do college level work in studio art while still in high school. AP Studio art differs from most high school art courses in that it demands a student's personal commitment to the time, maturity, and expense required to produce a portfolio for evaluation. Therefore, the program is intended for students seriously committed to studying art and is not recommended for the casually interested. (Up to nine hours AP credit)

ART 5 Studio - Drawing AP **ARL 105**

Prerequisite: Art 3 Grades 11-12 1 Credit

The AP Studio Art 5 program enables highly motivated students to do college level work in studio art while still in high school. AP Studio art differs from most high school art courses in that it demands a student's personal commitment to the time, maturity, and expense required to produce a portfolio for evaluation. Therefore, the program is intended for students seriously committed to studying art and is not recommended for the casually interested. (Up to nine hours AP credit)

ART 2—CERAMICS 1 **ART 202**
Prerequisite: Art 1 Grades 11-12 1 Credit

This course allows students to work with clay. Students study the basic material and tools used to design pottery and three dimensional sculpture. Each subsequent semester is devoted to improving skills and developing more intricate and advanced techniques.

ART 3—CERAMICS 2 HONORS **ART 203**
Prerequisite: Ceramics 1 Grades 11-12 1 Credit

Advanced techniques in clay and glaze technology, as well as instruction in sculptural applications in ceramics highlight this course.

ART 3D DESIGN AP **ART 204**
Prerequisite: Art 1 & Ceramics 1 Grades 11-12 1 Credit

Advanced techniques in clay and glaze technology, as well as instruction in sculptural applications in ceramics highlight this course.

ART HISTORY AP **ART 305**
Prerequisite: None Grades 11-12 1 Credit

This course explores such topics as the nature of art, its uses, its meanings, art making, and responses to art. Through investigation of diverse artistic traditions of cultures from prehistory to the present, the course fosters in-depth and holistic understanding of the history of art from a global perspective.

BALL HIGH BEGINNING CHOIR TREBLE/TENOR BASS **MUS 611/612**
Prerequisite: None Grades 9-12 1 Credit

This course teaches the basic skills of singing and music reading. Instruction includes music history and theory. Emphasis will be given to developing voice. Students in this choir will have opportunity to perform publicly.

BALL HIGH SYMPHONIC MIXED CHOIR 2-4 **MUS 622-624**
Prerequisite: Instructor approval Grades 10-12 1 Credit

This course explores choral music from current popular and contemporary music. Students in this choir will perform publicly on a regular basis and will compete in regional and UIL choral competitions.

MUSIC STUDIES I HONORS **MUS 670**
Prerequisite: None Grades 9-12 1 Credit

Theoretical concepts including scales, intervals, triads and acoustical properties of sound as they relate to music; rhythmic, melodic, harmonic and formal structures. Course includes part writing, aural skills and analysis.

MUSIC APPRECIATION DC **MUS 675**
Prerequisite: Meet College Requirements Grades 10-12 1 Credit

This course teaches the understanding music through the study of cultural periods, major composers, and musical elements; illustrated with audio recordings and/or live performances.

DANCE 1 **PEL 601**

Prerequisite: None Grades 9-12 1 Credit

This course is an introduction to dance as art and music. It is designed to teach movement fundamentals and give an orientation to dance by using different forms of dance. Instruction will begin with ballet and ballet terminology as the foundation for further dance exploration. Other dance instruction will include a mixture of some of the following: Latin dance; Salsa and Merengue; Afro-ethnic dance; modern dance; folk/ ethnic; jazz; and hip hop. Some background, history and terminology will be introduced with each area of dance. There will also be a strong emphasis on warm-up and stretching. Students will be exposed to different forms of music, both contemporary and classical.

DANCE 2 **PEL 602**

Prerequisite: Dance 1 Grades 10-12 1 Credit

This course will focus primarily on ballet dance instruction and terminology. The student will spend class time at the bar and on center combinations. The student will also be introduced to modern and lyrical dance. The dancer will study information on the care and strengthening of the body, the history of ballet, the professional world of ballet as well as information about ballet-related careers in other fields. The class will also pursue ballet-related field trips to see professional or pre-professional company performances when available. The students will participate in choreography, rehearsals, production and public performance of dance works.

DANCE 3 **PEL 603**

Prerequisite: Dance 2 Grades 11-12 1 Credit

This course is continuation of the study of the fine art of dance. This course focuses on ballet movement and studies for the improvement of student dancers. Much time will be Spent at the bar and on center combinations. The students will explore the strengthening of the body, the history of ballet, the professional world of dance and careers available in the field of dance. The students will participate in choreography, rehearsals, production and public performance of dance works.

DANCE 4 **PEL 604**

Prerequisite: Dance 3 Grades 11-12 1 Credit

This course is continuation of the study of the fine art of dance. This course focuses on ballet movement and studies for the improvement of student dancers. Much time will be spent at the bar and on center combinations. The students will explore the strengthening of the body, the history of ballet, the professional world of dance and careers available in the field of dance. The students will participate in choreography, rehearsals, production and public performance of dance works.

TORNETTES **PEL 611-614**

Prerequisite: Selection through tryout process Grades 9-12 1 Credit

The course is designed to teach dance/drill team movements as well as dance skills. Members are selected through tryouts and screening. Activities include performing for athletic events, summer camp, parades, contests and involvement in other community projects. Attendance at after-school/before-school practice is mandatory. Participation in the Spring Show is mandatory. Additional fees are required.

MARCHING BAND/WIND ENSEMBLE — MUS 101-104

Prerequisite: Director approval | Grades 9-12 | 1 Credit
(for 9th and 10th grade 0.5 PE Fall, 0.5 Fine Arts Spring)

This course consists of all wind players in the marching, Wind Ensemble and Symphonic bands. The students will be expected to perform at concerts, clinics, and competitions. The fall semester will focus on marching techniques and marching music for football games and UIL competition. Band members must perform at all football games, parades, competitions, and performances related to marching band. Students are expected to attend Monday through Friday rehearsals after school each throughout the entire fall semester. Students are also required to attend all UIL rehearsals and performances.

The spring semester will focus on UIL concert and sight-reading competition, solo and ensemble competition, and possible end-of-year competitions and performances. Students will be expected to attend all after school rehearsals, sectionals, perform at all UIL and other competitions.

Marching Band will be divided into two different groups for the spring semester. Based on playing ability, students will be placed in wind ensemble or symphonic band.

PERCUSSION — MUS 201-204

Prerequisite: Director approval | Grades 9-12 | 1 Credit
(for 9th and 10th grade 0.5 PE Fall, 0.5 Fine Arts Spring)

This course consists of all wind players in the marching, Wind Ensemble and Symphonic bands. The students will be expected to perform at concerts, clinics, and competitions. The fall semester will focus on marching techniques and marching music for football games and UIL competition. Band members must perform at all football games, parades, competitions, and performances related to marching band. Students are expected to attend Monday through Friday rehearsals after school each throughout the entire fall semester. Students are also required to attend all UIL rehearsals and performances.

TECHNICAL THEATRE 1 — THL 611

Prerequisite: None | Grades 9-12 | 1 Credit

This course is designed for the student interested in pursuing the craft of state design and execution and theatre management. The student will explore scenery, properties, lighting, costumes, makeup, sound, public relations, and research and design. Students will share in the theatre experience by working in the various areas associated with overall production. The students will also evaluate the work of other technicians and expand his or her appreciation of theatre through attendance at and involvement in theatrical events.

TECHNICAL THEATRE 2 — THL 612

Prerequisite: Tech Theater | Grades 10-12 | 1 Credit

This course is designed for the student interested in pursuing the craft of state design and execution and theatre management. The student will explore scenery, properties, lighting, costumes, makeup, sound, public relations, and research and design. Students will share in the theatre experience by working in the various areas associated with overall production. The students will also evaluate the work of other technicians and expand his or her appreciation of theatre through attendance at and involvement in theatrical events.

TECHNICAL THEATRE 3 THL 613

Prerequisite: Tech Theater 2 Grades 11 –12 1 Credit

This course is designed for the student interested in pursuing the craft of state design and execution and theatre management. The student will explore scenery, properties, lighting, costumes, makeup, sound, public relations, and research and design. Students will share in the theatre experience by working in the various areas associated with overall production. The students will also evaluate the work of other technicians and expand his or her appreciation of theatre through attendance at and involvement in theatrical events.

TECHNICAL THEATRE 4 THL 614

Prerequisite: Tech Theater 3 Grades 11-12 1 Credit

This course is designed for the student interested in pursuing the craft of state design and execution and theatre management. The student will explore scenery, properties, lighting, costumes, makeup, sound, public relations, and research and design. Students will share in the theatre experience by working in the various areas associated with overall production. The students will also evaluate the work of other technicians and expand his or her appreciation of theatre through attendance at and involvement in theatrical events.

THEATRE ARTS 1 THL 601

Prerequisite: None Grades 9-12 1 Credit

This course is designed as a performance class that focuses on developing student abilities in all manners of theatrical production. Emphasis is placed upon appropriate and expressive use of voice and body, and collaborative construction of student written scenes. Course will also provide a basic understanding of classical theater techniques and theater history. Students will be exposed to a variety of examples of theatrical craft, both in live performance and recordings. Basic stagecraft elements will be explored, including lighting, sound design, and stagecraft.

THEATRE ARTS 2 THL 602

Prerequisite: Theater Arts 1 Grades 10-12 1 Credit

This course is designed to emphasize advanced study in two areas: acting and design. Course units will include the study of advanced acting techniques and application of the design elements for the stage through group and individual projects. Involvement in co-curricular productions, contests, and/or other such activities is an integral requirement in the class.

THEATRE ARTS 3 THL 603

Prerequisite: Theater Arts 2 Grades 11-12 1 Credit

This course provides the third year student with advanced actor training, a broad understanding of dramatic literature, and training in the specialized skills of playwriting, design, and directing. Involvement in co-curricular productions, contests, and/or other such activities is an integral requirement of the class.

THEATRE ARTS 4 THL 604

Prerequisite: Theater Arts 3 Grades 12 1 Credit

Theatre Arts 4 continues to provide the advanced theatre student with extensive actor preparation, as well as specialized training in areas of special interest to the individual student. Among these are theatre literature, design, directing, and playwriting. Emphasis is on the refinement of skills. Involvement in co-curricular productions, contests, and/or other such activities is an integral requirement of the class.

HEALTH/PHYSICAL EDUCATION

HEALTH EDUCATION **HLT 900**

Prerequisite: None Grades 9-12 ½ Credit

This course focuses on preventative health safety and CPR. Students survey human anatomy, physiology, mental health, preventative medicine, safety, drug use, communicable & non-communicable diseases, and human sexuality.

INDIVIDUAL & TEAM SPORTS **PED 110**

Prerequisite: None Grade 9 1 Credit

This course will allow students to understand the importance of exhibiting a physically active lifestyle through participation in activities.

FOUNDATIONS OF PHYSICAL FITNESS **PED 120**

Prerequisite: None Grade 10 1 Credit

This course will allow students to develop a concept of wellness and an understanding about the process of becoming fit.

AEROBIC ACTIVITIES **PED 130**

Prerequisite: None Grades 11 1 Credit

This course will allow students to develop skills in physical activity and health, movement, and social development through aerobic activities.

ATHLETICS

Pre-Requisites: UIL Standards Grades 9-12

Classes are restricted to those students accepted into specific programs. Students interested in a particular program should contact the coaching staff for enrollment information. Students may be required to practice on fields or in gyms on other campuses. It is the student's responsibility to provide transportation to and from practices and home games. All students must have a physical on file to be in athletics. Sports without a course code listed below do not have a class built during the day and only practice before or after school. See chart below:

SPORT	9TH	10TH	11TH	12TH
FOOTBALL	ATH100	ATH101	ATH102	ATH103
VOLLEYBALL	ATH110	ATH111	ATH112	ATH113
GIRLS' SOCCER	ATH210	ATH211	ATH212	ATH213
BOYS' SOCCER	ATH200	ATH201	ATH202	ATH203
GIRLS' BASKETBALL	ATH310	ATH311	ATH312	ATH313
BOYS' BASKETBALL	ATH300	ATH301	ATH302	ATH303
BASEBALL	ATH400	ATH401	ATH402	ATH403
SOFTBALL	ATH450	ATH452	ATH453	ATH454
GOLF	ATH610	ATH611	ATH612	ATH613
TENNIS	ATH620	ATH621	ATH622	ATH623
GIRLS' CR COUNTRY (FALL)				
BOYS' CR COUNTRY (FALL)				
GIRLS'TRACK (SPRING)				
BOYS' TRACK (SPRING)				
SWIMMING				

JROTC

JROTC 1 **PEL 711**

Prerequisite: None Grades 9-10 1 Credit

This course provides the student with a basic introduction to ROTC (Reserve Officer Training Corps) and the United States Army. The topics include hygiene, first aid, map reading, air rifles, safety and marksmanship, leadership and drill, and methods of instruction.

JROTC 2 **PEL 712**

Prerequisite: JROTC 1 Grades 10-11 1 Credit

This course provides the student with the basic knowledge of intermediate map reading, air rifles, intermediate marksmanship, methods of instruction, leadership development and drill, battalion organization, introduction to leadership theory, acting as a small unit leader, and standard operating procedures. Students may serve as a small unit leader at squad through platoon levels.

JROTC 3 **PEL 713**

Prerequisite: JROTC 2 Grades 11-12 1 Credit

This course provides the student with the basic knowledge of psychology of leadership, leadership and small unit leader problems, leadership development and drill, applied marksmanship, service opportunities, applied methods of instruction, applied map reading, and US military history. Students may serve in unit leader roles at platoon through company levels.

JROTC 4 **PEL 714**

Prerequisite: JROTC 3 Grade 12 1 Credit

This course provides the student with the knowledge of advanced leadership development and drill, advanced instructional methods, staff functions procedures, organization actions and inter-staff responsibilities, and command and staff relationships. Students will serve in a unit leader role.

JROTC OFFICER **PEL 715/716**

Prerequisite: Tryout Grades 11-12 1 Credit

This course is designed to grow JROTC members in their leadership role as a JROTC officer. All JROTC officers are required to be enrolled in this course.

A student may choose JROTC 1 to
fulfill the PE requirement for graduation

LANGUAGES OTHER THAN ENGLISH

FRENCH

FRENCH 1 **LNG 201**

Prerequisite: None Grades 9-12 1 Credit

This course introduces oral language communication and emphasizes listening comprehension and speaking. It introduces basic grammar with a vocabulary of approximately 500 words.

FRENCH 2 HONORS **LNG 202**

Prerequisite: French 1 Grades 9-12 1 Credit

This course emphasizes speaking and listening proficiency. It expands usage and reading for comprehension and develops a deeper appreciation of Francophone civilization. Vocabulary is increased and writing skills from previous course are further developed.

FRENCH 3 HONORS **LNG 203**

Prerequisite: French 2 Honors Grades 10-12 1 Credit

This course expands on the basic skills and develops more sophisticated communication proficiency in speaking, listening and writing. It also develops a more extensive reading vocabulary through the study of a modern novelette and through the translation of excerpts from contemporary literature. The course increases vocabulary and develops a deeper understanding and appreciation of the Francophone civilization and culture.

FRENCH 4 HONORS **LNG 204**

Prerequisite: French 3 Honors Grades 11-12 1 Credit

French 4 increases reading and writing and further develops those skills through a selection of modern prose and poetry. The finer points of grammar and translation from English to French are practiced and vocabulary skills are increased. Speaking and listening skills are refined. A project is required.

FRENCH 5 AP **LNG 205**

Prerequisite: French 4 Honors Grade 12 1 Credit

This course is a continuation of both classic and modern French Literature. There is also an emphasis on French history, culture and civilization.

GERMAN

GERMAN 1 **LNG 301**
Prerequisite: None Grades 9-12 1 Credit

This first-year course introduces students to the basics of German language. No prior knowledge is required. Students will focus on basic grammar and vocabulary and work to achieve oral and listening proficiency. Historical and cultural awareness of the German-speaking countries will also be promoted. A vocabulary of 600 words will be taught projects may be required.

GERMAN 2 HONORS **LNG 302**
Prerequisite: German 1 Grades 9-12 1 Credit

An accelerated German 2 class where students will perfect their grammar, increase vocabulary and build reading and writing skills. Students' vocabulary will increase to 2500 words. Reports and projects will be required.

GERMAN 3 HONORS **LNG 303**
Prerequisite: German 2 Honors Grades 10-12 1 Credit

This third-year course advances students' knowledge of German language to promote fluency. Students will perfect their grammar, increase vocabulary and build reading and writing skills. Students' vocabulary will increase to 2500 words. Reports and projects will be required. Participation in the AATG National German Test will be offered.

GERMAN 4 HONORS **LNG 304**
Prerequisite: German 3 Honors Grades 11-12 1 Credit

This fourth-year course continues to promote fluency in German. Successful completion of German Three is required. Students will further refine their grammar, increase vocabulary and build additional reading and writing skills. Students' vocabulary will increase to 5000 words. Reports and projects will be required.

GERMAN 5 AP **LNG 305**
Prerequisite: German 4 Honors Grades 11-12 1 Credit

This fifth-year course is available to students who began German studies at the middle school level. Successful completion of German Four is required. This course is meant to "top-off" the successive building of skills aimed at achieving fluency in German. Students will review and refine all aspects of grammar and punctuation. Native-level ability of oral, listening, reading and writing skills will be encouraged. Students' vocabulary should increase to over 7500 words. Reports and projects will be required and students will be prepared for the German AP exam for college credit.

SPANISH

PLACEMENT GUIDELINES

An assessment will be given to students to determine if placement in a Spanish native speakers class is appropriate.

SPANISH 1 **LNG 101**
Prerequisite: None Grades 9-12 1 Credit

Spanish 1 introduces oral language communication. Emphasis is placed on speaking and listening comprehension. Basic grammar usage is introduced. A project each semester is required.

SPANISH 1 & 2 FOR NATIVE SPEAKERS HONORS **LNG 102/142**
Prerequisite: Fluent in Spanish Grades 9-12 2 Credits

This one-year accelerated course is designed for bilingual students with a native-like knowledge or experience in oral Spanish. The focus is to increase vocabulary, transfer reading comprehension skills, and develop functional language development and usage. Students are provided a well-structured curriculum that meets needs. Each semester a project is required.

SPANISH 2 **LNG 103**
Prerequisite: Spanish 1 Grades 9-12 1 Credit

This course emphasizes speaking and understanding of the spoken word. Grammar usage and reading for comprehension is expanded. An appreciation of Hispanic culture and civilization is developed. Vocabulary and writing skills are also increased. A project each semester is required.

SPANISH 2 FOR NATIVE SPEAKERS HONORS **LNG 142**
Prerequisite: Fluent in Spanish Grades 9-12 1 Credit

This course is specifically designed for those Spanish-speaking students that have taken Spanish at the middle school level and passed with a 75 or above. The focus is to increase the writing skills.

SPANISH 2 HONORS **LNG 104**
Prerequisite: Spanish 1 Grades 9-12 1 Credit

This is an accelerated college preparatory Spanish 2 course. Speaking and understanding the spoken word is stressed as are grammar usage and reading for comprehension. An appreciation of Hispanic culture and civilization is developed. Vocabulary and writing skills are increased. A project each semester is required.

SPANISH 3 **LNG 105**
Prerequisite: Spanish 2 Grades 10-12 1 Credit

This course expands basic skills previously learned and increases writing, speaking and listening skills. It also develops more extensive comprehension through reading Hispanic literature and increase awareness of the Hispanic world and cultures.

SPANISH 3 HONORS **LNG 106**

Prerequisite: Spanish 2 Grades 10-12 1 Credit

This course emphasizes oral communication and expands on the basic skills learned in Spanish 1 and 2 Honors. The course increases writing skills in addition to speaking and listening skills. It also develops more extensive reading comprehension and a deeper appreciation of Hispanic culture. The students' vocabulary will grow through reading short stories and dialogues. A project each semester is required. This course continues preparation skills for the Spanish AP exam.

SPANISH 3 FOR NATIVE SPEAKERS HONORS **LNG 152**

Prerequisite: Spanish 2 NATIVE SPEAKERS Grades 10-12 1 Credit

This course emphasizes oral communication and expands on the basic skills learned in the Spanish 1 and 2 Native Speaker course. The course increases writing skills in addition to speaking and listening skills. It also develops more extensive reading comprehension and a deeper appreciation of Hispanic culture. The students' vocabulary will grow through reading short stories and dialogues. A project each semester is required. This course continues preparation skills for the Spanish AP exam.

SPANISH 4 AP **LNG 108**

Prerequisite: Spanish 3 Grades 10-12 1 Credit

Concentration is on writing, speaking and reading modern Spanish. Class discussion in Spanish increases vocabulary, fluency and develops cultural understanding through selections. Students are prepared for the language AP exam in May. The short story and the novel are introduced as literary genres.

SPANISH 5 AP **LNG 109**

Prerequisite: Spanish 4 AP Grades 11-12 1 Credit

Native speakers who took Spanish for Native Speakers 3 AP and who passed the Language Exam may also take this course. This course is a continuation of Spanish 4 AP with emphasis on reading and a variety of Hispanic literature, and is designed to prepare students for the AP Literature Exam. Reporting of complete, original texts including several novels and complete plays, and detailed literary analysis are the basis of the activities in this class.

CHINESE

CHINESE 1 — LNG 401

Prerequisite: None | Grades 9-12 | 1 Credit

Chinese 1 introduces oral language communication. Emphasis is placed on speaking and listening comprehension. Basic grammar usage is introduced. A project each semester is required.

CHINESE 2 HONORS — LNG 402

Prerequisite: Chinese 1 | Grades 9-12 | 1 Credit

This course emphasizes speaking and understanding of the spoken word. Grammar usage and reading for comprehension is expanded. Vocabulary and writing skills are also increased.

CHINESE 3 HONORS — LNG 403

Prerequisite: Chinese 2 | Grades 9-12 | 1 Credit

An accelerated Chinese 3 course. This course expands basic skills previously learned and increases writing, speaking and listening skills. It also develops more extensive comprehension through reading literature and increase awareness of the Chinese world and cultures.

CHINESE 4 HONORS/CHINESE AP — LNG 404

Prerequisite: Chinese 3 | Grades 9-12 | 1 Credit

This course will improve a student's ability in language proficiency in terms of listening, speaking, writing, and reading in a variety of personal, social, and cultural course lessons.

ELECTIVE COURSES

CHEERLEADER **PEL 311**

Prerequisite: Try-outs Grades 9-12 1 State Credit P.E.,local credits thereafter

Cheerleaders must be able to attend summer camp, summer practice and after-school practice. Additional fees are required. They also must attend all football and basketball games. A cheerleader is responsible for uniforms, shoes, and assigned clothes for summer camp.

TEEN PARENTING I & II **VOL 714, 715**

Prerequisites: Teen Parent Grades 9-12 1 Credit

This course provides enrichment in parenting techniques. Students will focus on balancing school, work and parenting as well as preparing for a career and/or secondary education. Students will explore steps in living on their own, household management and benefits of an extended family.

STUDENT LEADERSHIP **VOL 770**

Prerequisite: None Grades 9-12 ½ -1Credit (State)

This course provides an opportunity to study, practice, and develop group and individual leadership and organizational skills. These skills include, but are not limited to, decision-making skills, problem-solving techniques, communication skills, leadership roles, human relation skills, understanding the need for civic responsibility, working in the school store and recycling. Students who take this course will apply these skills in dealing with peers, school staff, administrators, and the community.

JOURNALISM **JRN 100**

Prerequisite: None Grades 10-12 1 Credit

Beginning course for students who like to write. The course teaches journalistic writing, lay out, and headline writing . This serves as a preparation for newspaper/ yearbook.

NEWSPAPER PRODUCTION 1-3 **JRN 101-103**

Prerequisite: Application & interview required Grades 10-12 1 Credit

The actual production of a periodic newspaper is accomplished in this course. Computer generated work and lay outs are completed in this class. This course is designed for students who like to write.

YEARBOOK PRODUCTION 1-3 **JRN 201-203**

Prerequisite: Journalism or Teacher recommendation Grades10 –12 1 Credit

This course is for students who wish to learn about magazine journalism by actually producing a yearbook, Students must complete a layout design and sell advertisements to the community.

GALVESTON HISTORY **SOC 810**

Prerequisite: None Grade 10-12 ½ Credit

This is a semester long course that will look at Galveston's unique history. The course will look at the island's history from its early discovery and settlement, to present day. In this history, the student will analyze political, economic, social, and technological issues that are unique to Galveston. The student will also be introduced to the islands unique bio-diversity including its seasonal weather and unique climate. The course will also aim to present current events and issues to the student and try to inspire the student to participate in local politics in Galveston and inform them of their local civic responsibilities. This course will work in connection with local elected officials, entrepreneurs, the local media, local celebrities and others for the student complete projects specific to Galveston. The course will highlight all of Galveston's great historical accomplishments and historical figures from all parts of the community.

CREATIVE WRITING **ENG 502**

Prerequisite: None Grade 11-12 ½ Credit

This course will study various genres of literature through a creative writing aesthetic. Students will strengthen writing skills through the exploration of critical thinking using dynamic pieces of literature. Students will use these outlets to illustrate creativity that aligns with English IV standards. Students will be assessed through multiple creative writing projects, literary analysis, and writing journals.

VISUAL MEDIA ANALYSIS AND PRODUCTION **ENG 503**

Prerequisite: None Grade 11-12 ½ Credit

This course will emphasis film as a genre of literature. Through the lens of film, students will be able to use film as a tool in order to deepen their understanding of theme, structure, and style. Students will use thematic units to explore the relationship of film and fiction/nonfiction texts. Visual Media use thematic units to explore the relationship of film and fiction/nonfiction texts. Visual Media Production Analysis and Production will allow students to extend their knowledge obtained in creative writing by allowing them to demonstrate their creativity through a student led project.

SAT PREP COURSE (online)

Prerequisite: None Grade 10-12 ½ Credit

This elective course will provide students with comprehensive preparation for the SAT exam.

ACT PREP COURSE (online)

Prerequisite: None Grade 10-12 ½ Credit

This elective course will provide students with comprehensive preparation for the ACT exam.

FINANCIAL LITERACY (online)

Prerequisite: None Grade 10-12 ½ Credit

This elective course will provide students with Personal Financial Literacy is a one semester course that will develop citizens who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lives .

LOCAL ELECTIVES

Local electives are not counted in GPA (a full list of courses not counting for GPA are listed on page 5). Local credits are not recognized on the recommended or distinguished graduation plans.

EARLY RELEASE **LOC 900, 901, 902**

Prerequisite: Passed all portions of STAAR Grade12 No Credit
Parental Permission Form

Seniors must apply for the option of being released. They must meet the above criteria before receiving an application from the Counselor's Office.

STUDENT AIDE **LOC 100**

Prerequisite: Application Required Grade 12 1 Local Credit

Seniors must apply for this through the counseling office. All students must complete the screening form and return to the counselor at the time of registration. A student may not be a student aide more than one period during senior year.

STUDENT COUNCIL **LOC 711**

Prerequisite: Approval—from Sponsor Grades 10-12 1 Local Credit

Student council members represent the Ball High student body through service projects held throughout the school year. Students are expected to represent the school by following school rules and promoting unity among the students. Leaders are elected from the membership. All executive board and class officers are required to take this course.

HISPANIC DANCE– (BALLET FOLKLORICO DANCE 1-4) **LOC 660**

Prerequisite: Application, Tryout, Instructor approval Grades 9-12 1 Local Credit

This course is designed for students who are willing and prepared to perform for the community in a disciplined atmosphere. Students will be expected to dress and participate every day. Students will be graded on their ability to learn the steps of each dance as well as their knowledge of Latin American dance history and participation in class as well as outside performances. At least three choreography test grades are required each nine weeks. This class is limited to 30 students.

TORNETTE OFFICER **LOC 600**

Prerequisite: Tryout Grade 11-12 1 Local Credit

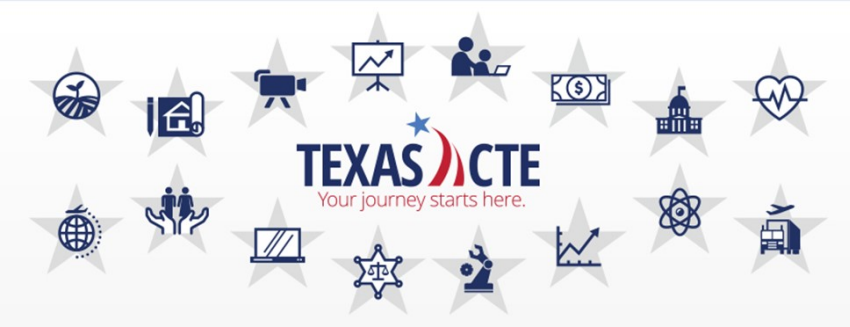
This course is designed to grow dancers in their leadership role as a Tornette officer. All Tornette social and dance officers are required to be enrolled in this course.

Galveston ISD

Career & Technical Education Handbook Ball High School 2022-2023

https://www.galvestonisdcte.com/

https://www.txcte.org/binder/career-cluster-pages



Texas CTE is an education initiative designed to prepare students for a lifetime of success. It allows students to achieve excellence by preparing them for secondary and postsecondary opportunities, career preparation and advancement, meaningful work, and active citizenship.

Texas CTE is designed to help students (and their parents) make wise education choices. It is based on the belief that the curricula of the 21st century should combine rigorous academics with relevant career education. When schools integrate academic and technical education, students can see the "usefulness" of what they are learning. The system also facilitates a seamless transition from secondary to postsecondary opportunities by serving as a foundation for restructuring how schools arrange their instructional programs. A Career Cluster is a grouping of occupations and broad industries based on commonalities. The sixteen Career Clusters provide an organizing tool for schools. Career programs of study (POS) have been developed for each of the Career Clusters. The POS represent a recommended sequence of coursework based on a student's interest or career goal.

Ball High School has incorporated the Programs of Study and Career Clusters into the Career and Technical Education department course structure and uses 14 of the clusters offering a wide range of career exploration and some of the sequences of courses lead toward the opportunity for a professional certification.

Certifications, Articulated College Credit and Dual Credit in the CTE Department

Certifications—many certificates are offered to students in CTE classes. All students enrolled in shop classes must pass safety courses before being allowed to work in a lab. Certificates are awarded to students who pass these courses. Students in most classes earn certificates that can be presented when applying for jobs. Teachers discuss the various certificate options during the orientation for each class where these are offered.

Articulated College Credit—the CTE Department has Articulation Agreements with various junior colleges in this area. Articulated College Credit is college hours awarded to students who successfully meet the criteria required in the Articulation Agreement. Presently CTE has agreements with Galveston College, College of the Mainland and Alvin Community Junior College. Representatives from each institution visit CTE classes to explain the process of earning and claiming the Credit.

Dual College Credit (DC)—these college hours can be earned in some CTE classes where students are enrolled in a college course that also offers high school credit. This tuition, building fees and supply costs that can be paid by the student or in some cases, by the CTE Department. Teachers, who offer this type of class, give the details and handle the arrangements required by the college.

Continuing Education Credit (CE)-these non-credited college courses can be earned through enrollment in college classes that lead to industry certification. Generally, these classes are only offered at the college, with the exception of Diesel Mechanics 1 and 2.

Project Lead the Way (PLTW)-this program is the foundation curriculum for all Engineering and Biomedical Science classes at Ball High and the middle schools. Students will have the opportunity to sit for end of course exams and earn articulated credit in engineering or biomedical sciences to certain college programs around the country. Please visit www.pltw.org

State Endorsements- STEM, Public Service, and Business & Industry Endorsements are those found within CTE and refer to the state graduation pathways. A student may earn one or more of these endorsements by completing the new Foundation High School Plan and those curriculum requirements of the corresponding endorsement. Please see your counselor for more details.

Galveston Career Connect & The Moody Foundation (GCC)-GCC is a grant program that helps support and pay for important student intangibles for 7 career pathways: welding, IT, electrical & instrumentation, engineering & computer science, CNA/Phlebotomy/LVN, and EMS. Students who are in these pathways and are signed up through the GCC grant are assigned a career advisor who help guide them over their 4 years while in high school and co-enrolled at Galveston College. The grant also offers the following benefits to those students: pay for certifications, pay for dual credit course tuition, pay for AP test registration, pay for ACT/SAT registration, pay for any uniforms or books needed, pay the student $500 for one internship of 40+ hours completed, and pay the student $500 for each tiered level of industry certification completed.
https://www.galvestonisdcte.com/careerconnect

BioMedical/Allied Heath Pathway

Grades 9- 10 **Principles of Biomedical Sciences (PLTW-PBS)** (1 Credit)	Grade 10 **Anatomy & Physiology** (1 credit)	Grade 11-12 **Medical Terminology- Dual Credit (8 hours)** 1 credit **Biotechnology** (1 credit)	Grade 11-12 **Practicum in Health Science from the following:** Scientific Research & Design at UTMB, CNA/ Phlebotomy-CE, EMT-DC, LVN-DC, Surgical Tech DC, Medical Administration-DC 2 credits
	Grade 10-12 **Microbiology** (1 credit)	Grade 11-12 **Microbiology** (1 credit)	

Principles of Biomedical Sciences (PLTW-PBS) **BIO 100**
Prerequisite: Preferred Honors Math & Science Grades 9-10 1 Credit

The course provides an introduction and serves as an overview to the biomedical sciences through exciting "hands on" projects and problems. Student work involves the study of human medicine, research processes and an introduction to bio-informatics. Students investigate the human body systems and various health conditions including heart disease, diabetes, sickle cell disease, hypercholesterolemia, and infectious diseases.

Anatomy & Physiology **SCI 922**
Prerequisite: PBS Grades 10 -11 1 Credit

By using the PLTW Human Body Systems (HBS) curriculum, students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. (To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).

Medical Terminology (1st Sem.)/ Basic Health Professional Skills (2nd Sem.) -Dual Credit 8hours **BIO 120**
Prerequisites: TSI satisfied for 11th Grades 11-12 1 Credit

This course is designed to develop a working knowledge of the language of medicine. Students acquire word-building skills by learning prefixes, suffixes, roots and abbreviations. By relating terms to body systems, students identify proper use of words in a medical environment. Knowledge of medical terminology enhances the student's ability to successfully secure employment or pursue advanced education in health care; 1st semester in Medical Terminology, 2nd semester is Healthcare Professions/Ethics. **Only students who are TSI satisfied can take this course their junior year.** ***Students must earn a 75 or higher to go to the second semester.***

Microbiology **SCI 830**

Prerequisites: Biology and Chemistry Grades 11-12 1 Credit

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications.

Biotechnology I **BIO 140**

Prerequisites: PBS-HBS Grades 11-12 1 Credit

Students will apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agricultural, medical, regulatory, and forensics. Students will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques. Students will conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students will study a variety of topics that include structures and functions of cells, nucleic acids, proteins, and genetics. Students must meet the 40% laboratory and fieldwork requirement. This course satisfies a high school science graduation requirement.

Practicum in Health Science: Patient Care Tech, EMT, Clinical Rotations, or Allied Health DC at GC **BIO 150, 160, 170**

Prerequisites: Health Science or PLTW-HBS and Medical Terminology

Grades 11-12 2 Credits

The Practicum 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.

It will help student to pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, and communicate effectively. Students should recognize that quality health care depends on the ability to work well with others.

Grade 9-10	Grade 10	Grade 11	Grade 12
Introduction to Engineering Design (PLTW-IED) 1 Credit *Autodesk Inventor Certification*	**Principles of Engineering (PLTW-POE)** 1 Credit *Autodesk AutoCad Certification*	**Aerospace Engineering (PLTW-AE)** 1 Credit **Civil Engineering & Architecture (CEA)** 1 credit	**Engineering Design & Development** (DC with GC) 1 Credit

Introduction to Engineering Design (PLTW-IED) **STM 110**

Prerequisites: Currently enrolled in Algebra 1 or a higher math course
Grades 9-10 1 Credit

This course provides students with opportunities to be creative and to apply decision-making and problem-solving skills to design problems. Students use powerful computer hardware and software (Inventor) to develop 3-D models or solid renderings of objects. Using a Computer Aided Design System, students learn the product design process through creating, analyzing, rendering and producing a model. Students will learn elementary engineering concepts and will explore career opportunities in design engineering as they develop portfolios to display and present their designs.

Principles of Engineering (PLTW-POE) **STM 120**

Prerequisites: IED and currently enrolled in Geometry or higher
Grades 10-11 1 Credit

This course provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students will use a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields and will be able to make informed decisions regarding a coherent sequence of subsequent courses. Further, students will have worked on a design team to develop a product or system. Students will use multiple-software applications to prepare and present course assignments. Students will have the opportunity to sit for the Autodesk Inventor Certification.

Civil Engineering & Architecture (CEA) **STM 150**

Prerequisites: IED and POE; preferred to have completed Algebra 2 or a higher
Grades 11-12 1 Credit

Students learn important aspects of building and site design and development. They apply math, science, and standard engineering practices to design both residential and commercial projects and document their work using 3D architecture design software.

Aerospace Engineering (PLTW-AE) **STM 140**

Prerequisites: IED and POE; preferred to have completed Algebra 2 or a higher
Grades 11-12 1 Credit

The major focus of this course is to expose students to the world of aeronautics, flight and engineering through the fields of aeronautics, aerospace engineering and related areas of study. Lessons engage students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of space science, principles of aeronautics, and systems engineering.

Engineering Design & Development DC **STM 160**

Prerequisite: IED, POE, and choice of AE, DE, CE, or CSE
Grades 12 1-2 Credits

Students who plan to major in engineering will take 6 hours of engineering instruction at Galveston College their senior year; student-centered curriculum that engages learners in authentic engineering experiences and inspires them to embrace an engineer's habits of mind. Collaborative, student-directed projects build resilient problem-solving skills and empower students to think like engineers, to adopt engineering processes, and to pursue engineering disciplines for the betterment of our world.

INCUBATOR-Entrepreneurship **IAE 440**

Prerequisite: BIM 2 years in any given career cluster Grade 12 1 Credit

Students acquire foundational business concepts, and then apply those concepts to a team business idea. Principles from the LEAN startup movement help students test their thinking. From concept to Minimum Viable Product to Pitch, students are hypothesizing, testing, adapting and learning. Importantly, they work and learn in teams. In addition to team collaboration, students are paired with business professional mentors and learn content specific information from community coaches. Mentors are volunteer guides, who advise student teams as they develop their business concepts. Coaches are volunteer subject matter experts, who share best thinking/practices in the classroom.

Grade 8-9	Grade 9-10	Grade 11-12	Grade 12
Robotics I or II 1 Credit (students receive Robotics 1 credit in 8th grade if they were enrolled in that course and competed on the middle school robotics team)	**Robotics II** 1 Credit **Robotics III** 2 Credits	**Robotics III or IV** 2 Credits	**Robotics IV or Practicum in STEM** 2 Credits

Robotics I-II **STM 210, 220**

Prerequisite: none, Robotics 1 completed in 8th or 9th grades to enroll in Robotics II
Grades 8-10 1-2 Credits

Students enrolled in this course will demonstrate knowledge and skills necessary for the robotic and automation industry. Through implementation of the design process, students will transfer advanced academic skills to component designs in a project-based environment. Students will build prototypes or use simulation software to test their designs. Additionally, students explore career opportunities, employer expectations, and educational needs in the robotic and automation industry. Students will have the opportunity to compete in competitions and earn Robot C certification. ***(Must have an 80 or above in Robotics 2 and be on the team to enroll in Robotics 3 and 4)***

Robotics III-IV **STM 230, 240**

Prerequisite: successful completion of Robotics II or III and on the robotics team
Grades 10-12 2 Credits

Students in this course are on the competitive robotics team through VEX and are obligated to compete in designated weekend events and travel to state, national and world championship events around Texas and the United States.

Grade 9	Grade 10-11	Grade 11-12	Grade 12
Computer Science 1 1 credit	**Computer Science 2** 1 credit **AP Computer Science Principles & Software Engineering (LOTE YR 1)**	**Computer Science 3** 1 Credit **AP Computer Science A (LOTE YR 2)** 1 Credit	**Practicum in Computer Science (Cybersecurity)** 2 Credits

AP Computer Science Principles & Software Engineering **STM 320**
Prerequisite: currently enrolled in Alg 2 Grades 9-10 1 Credit

Using Python as a primary tool and incorporate multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science, although we encourage student without prior computing experience to start with Introduction to Computer Science. CSE helps students develop programming expertise and explore the working of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns with the AP Computer Science Principles course.

AP Computer Science A **STM 330**
Prerequisite: AP Comp Sci Prin & Software Eng Grades 10-11 1 Credit
Students will be introduced to topics that include problem-solving, design strategies and methodologies, organization of data (data structure), approaches to processing data (algorithms), analysis of potential solutions, and the ethical and social implication of computing.

Cyber Security & Security Principles **STM 340**
Prerequisite: previous listed courses Grades 12 2 Credits

Students will learn basic cyber security concepts, enable you to identify root causes of vulnerabilities in a network system and distinguish them from the threats from both inside and outside; analyze the enabling factors of recent cyber-attack incidences and discuss the basic security services for their defense and triage.

Computer Science 1 **STM 410**
Prerequisites: none Grades 9-10 1 Credit

This course is designed to foster students' creativity and innovation by presenting opportunities to design, implement and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor and with various electronic communities to solve the problems presented throughout the course. This course teaches the foundations of computer science and basic programming in JavaScript, with an emphasis on helping students develop logical thinking and problem solving skills. The course is visual, dynamic, and interactive making it engaging for new coders and those interested in careers in the computer industry.

Computer Science 2 **STM 420**
Prerequisites: Computer Science 1 Grades 10-11 1 Credit

This course will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

Computer Science 3 **STM 430**
Prerequisites: Computer Science 2 Grades 11-12 1 Credit

This course utilizes tools and writing programs for acquiring, cleaning, analyzing, exploring, and visualizing data; making data-driven inferences and decisions; and effectively communicating results. Learning data manipulation, data analysis with statistics and machine learning, data communication with information visualization, working with big data using scalable techniques.

Grade 9-10	Grade 10-11	Grade 11	Grade 12
Introduction to Industrial Trades & Operations 1 credit	**Industrial Trades & Operations 1** 1 credit *NCCER Core Certification* *Carpentry 1 Certification*	**Industrial Trades & Operations 2** 2 Credits	**HALF DAY AT GALVESTON COLLEGE** **(see next page for options)** 4-5 credits

Students will apply for their TWIC card before graduation: paid for by GISD CTE

Introduction to Industrial Trades and Operations **IAE 800**
Prerequisite: none Grades 9-10 1 Credit

This course provides an overview to the various fields of industry jobs within plant operations and process technology, the ports, electronics & instrumentation, HVAC/R, plumbing, drafting and architecture, and construction.

Industrial Trades and Operations 1 **IAE 810**
Prerequisite: Principles of Construction Grades 10-11 1 Credit

This course is an exploratory course that addresses the utilization of training, certifications, and safety in regards to job specific skillsets needed in order to enter the workforce in a student's desired career path. Students study and use common construction tools, machines, materials and processes. The course provides experiences in planning and controlling construction systems and projects to explore the organization-al structures and management strategies in all industrial trades and operations careers, whether it be in the plants, on the ports, the ports, electronics & instrumentation, HVAC/R, plumbing, drafting and architecture, and construction. Students will take part in fieldtrips and have the opportunity to listen to industrial trades' experts and employers present valuable information on career and income opportunities, and what employers expect from new employees. Students earn NCCR Safety Core Curriculum and OSHA 10 certifications.

Industrial Trades and Operations 2 **IAE 820**
Prerequisite: Constructions Technology 1 Grades 11-12 2 Credits

This course is designed to provide hands-on classroom simulator experiences, job-specific training for entry-level employment in operations and industrial trades-related careers: plant operations, the ports, electronics & instrumentation, HVAC/R, plumbing, drafting and architecture, and construction. Students will earn their OSHA 30 certification and Forklift Certification. Students will be guided on how to locate and secure internship opportunities while still in high school. Students will be involved in numerous fieldtrip and guest speaking engagements that allow them to see first-hand what it will be like working in their field of interest. Industry partners will guide students on how to apply for jobs, where to apply, and why employers are looking for when the students eventually apply for these desired jobs. Students will earn their TWIC Card upon completion of this course and/or program. **(The student must have a grade of 80 to advance to Galveston College.)**

Business & Industry:
Electrical-Instrumentation or HVAC/Refrigeration

THESE 2 OPTIONS ARE OPENED TO ALL CONSTRUCTION OR PLTW STUDENTS WHO HAVE COMPLETED AT LEAST 3 CREDITS OF THEIR RESPECTIVE PATHWAY.

Dual Credit-GC	**Dual Credit-GC**	**Dual Credit-COM**
Electrical and/or Instrumentation Electrical Technology Advanced Electrical Technology Grade 12 4-5 Credits	**HVAC & Refrigeration Technology Advanced HVAC & Refrigeration Technology-Dual Credit** Grade 12 4-5 Credits	**Process Technology MUST BE TSI SATISFIED** Grade 12 4-5 Credits

HVAC & Refrigeration Tech 1 and HVAC & Refrigeration Tech 2: IAE 720

Offered at Galveston College Applied Technical Center. Students enrolled in this program are working towards electrical and instrumentation certification with Galveston College's HVAC/R Applied Science Associate's Degree. Students gain advanced knowledge and skills specific to those needed to enter the industry as HVAC and refrigeration technicians or building maintenance technicians or supervisors or prepare for a postsecondary degree. Students acquire knowledge and skills in safety, electrical theory, tools, codes, installation of commercial HVAC equipment, heat pumps, trouble-shooting techniques, various duct systems, and maintenance practices.

Electrical Technology 1 and Electrical Technology 2: IAE 700/710

Offered at Galveston College Applied Technical Center. Students enrolled in this program are working towards electrical and instrumentation certification with Galveston College's Electrical & Instrumentation Applied Science Associate's Degree. Students gain advanced knowledge and skills specific to those needed to enter the work force as an electrician or building maintenance technician or supervisor or prepare for a postsecondary degree in construction. Students acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.

Process Technology: IAE 730

Prerequisite: TSI, Algebra 2, Chemistry, and be enrolled in Physics
Grades 12 4-5Credits
Offered at College of the Mainland. Jet fuel, building materials, metals and plastics—all are products of process technology. Process technology involves every aspect of chemical processing, including extracting chemicals such as oil and natural gas, refining them and carefully monitoring the process that makes it happen. Special instrumentation, pumps, turbines and compressors are designed to monitor and separate the chemicals that make up countless products we use every day.

Grade 9	Grade 10	Grade 11	Grade 12
Introduction to Welding 1 Credit	**Welding 1 – Dual Credit** 2 Credits *(multiple certifications awarded upon successful completion)*	**Welding 2- Dual Credit** 3 Credits *(multiple certifications awarded upon successful completion, including* Forklift)	**Practicum in Welding (Manufacturing)- Dual Credit** 3 credits

Introduction to Welding **IAE 100**
Prerequisites: none Grades 9-10 1 Credit

Students gain knowledge and skills in the application, design, production, and assessment of products, services, and systems and how those knowledge and skills are applied to manufacturing. Knowledge and skills in the proper application of principles of manufacturing, the design of technology, the efficient production of technology, and the assessment of the effects of manufacturing production technology prepare students for success in the modern world. The study of manufacturing technology allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting. In addition to general academic and technical knowledge and skills, students gain an understanding of career opportunities available in manufacturing and what employers require to gain and maintain employment in these careers. **(The student must have a grade of 75 to advance to Welding.)**

Welding 1-Dual Credit **IAE 110**
Prerequisite: Intro. to Welding Grades 10-11 2 Credits

Rapid advances in technology have created new career opportunities and demands in many industries. Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students develop knowledge and skills related to this system and apply them to personal career development. This course supports integration of academic and technical knowledge and skills. Students will reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Knowledge about career opportunities, requirements, and expectations and the development of workplace skills prepare students for future success.
(The student must have a grade of 75 to advance to Welding 2.)

Welding 2-Dual Credit **IAE 120**
Prerequisites: Welding 1 Grades 11-12 2 Credits

Advanced Welding builds on knowledge and skills developed in Welding. Students will develop advanced welding concepts and skills as they relate to personal and career development. This course integrates academic and technical knowledge and skills. Students will have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems.
(The student must have a grade of 75 to advance to Practicum in Welding.)

Practicum in Welding (Manufacturing)-Dual Credit **IAE 130**

Prerequisites: Advanced Welding Grades 12 2 Credits

Practicum in Welding is designed to give students supervised practical application and/or paid internships based on previously studied knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience. Students will also be enrolled in the pipefitting program at GC

Grade 9	Grade 10	Grade 11	Grade 12
Automotive Basics (1 Credit)	**Automotive Technology 1** (2 Credits)	**Automotive Technology 2** 2 Credits	**Diesel Equipment Technology 1 & 2-*CE*** **Automotive AC** 2 Credits

Automotive Basics **IAE 200**

Prerequisite: None Grades 9-10 1 Credit

In Principles of Transportation, Distribution, and Logistics, students gain knowledge and skills in the safe application, design, production, and assessment of products, services, and systems. This knowledge includes the history, laws and regulations, and common practices used in the logistics of warehousing and transportation systems. Students should apply knowledge and skills in the application, design, and production of technology as it relates to the transportation, distribution, and logistics industries. This course allows students to reinforce, apply, and transfer their academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings

Automotive Technology 1 **IAE 210**

Prerequisite: Automotive Basics Grades 10-11 2 Credits

Automotive services include knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. In Automotive Technology, students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach the theory of operation of automotive vehicle systems and associated repair practices.

(Students must earn a 75 or higher to go to advanced automotive technology.)

Automotive Technology 2 **IAE 220**

Prerequisite: Automotive Technology 1 Grades 11-12 2 Credits

Services include advanced knowledge of the function of the major automotive systems and the principles of diagnosing and servicing these systems. Students gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach the theory of operation of automotive vehicle systems and associated repair practices. Students who excel in this course will have the opportunity to earn multiple automotive certifications, and will also have the opportunity to AYES placement at a General Motors dealership auto shop or employment at a Galveston based O'Reilley's.

Diesel Equipment Technology 1 & 2-CE **IAE 230**

Prerequisite: Automotive Technology 2 Grades 11-12 2 Credits

This class mixes classroom instruction with hands-on training, including the basics of diesel technology, repair techniques and equipment, and practical exercises. Students also learn how to interpret technical manuals and electronic diagnostic reports. This class is offered at Ball High School, but it is after-school only.

Automotive AC-CE

Prerequisite: Diesel 1 Grades 11-12

Learning experiences for students in the Automotive Technology program and related certificates are provided in the classrooms and automotive bays. Students develop skills within the Automotive HVAC Essentials Certificate Program. The program can help you prepare for industry certification and enhance your skills for employment in a garage, dealership, auto supply store, or public transportation.

Grade 9	Grade 10	Grade 11	Grade 12
Business Information Management (BIM) 1 Credit (course is also available online)	**Business Information Management II (BIM II)** 1 Credit	**Distribution & Logistics (Dual Credit)** 2 credit	**Practicum in Distribution & Logistics-CE/DC with Certificate** 2-3 credits

(THESE HOURS ARE TRANSFERRABLE GALVESTON COLLEGE WHO NOW HAS AN ARTICULATION AGREEMENT WITH TAMUG.)

Business Information Management (BIM) **IAE 400**
Prerequisite: None Grade 9 1 Credit

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of Microsoft Office, emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.
All students will have the opportunity to earn the Microsoft Office Certification.

Business Information Management II (BIM II) **IAE 410**
Prerequisite: BIM I Grades 10 1 Credit

Students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. **All students will have the opportunity to continue earn the Microsoft Office Certifications based on where they left off in BIM 1**.

Distribution & Logistics-DC with Certificate **IAE 310**
Prerequisite: BIM I Grade 11 1 credit

This transferrable credit-based certificate is a sequence of courses that the college will offer as a program in Ball High School and on the main campus. This course satisfies the requirements for a student to take the national Manufacturing Skill Standards Council (MSSC) test for certification as a Certified Logistics Associate. Major topics include understanding the life cycle of global chain logistics, the logistics environment and familiarization with different material handling equipment, introduction to safety principles and safe equipment handling, quality control principles, workplace communications, teamwork and problem solving. Total Program hours: 592 contact hours.

Practicum in Distribution & Logistics-CE/DC with Certificate **IAE 320**
Prerequisite: Distribution & Logistics Grade 12 2 credits

Students who have successfully completed the first level logistics associate course are prepared for the second level certification as a Certified Logistics Technician Certification. The focus of the course is on product receiving, storage order processing, packaging and shipment, inventory control, evaluation of transportation modes and dispatch and tracking. This second course is a second level certification from the Manufacturing Skills Standards Council, (MSSC). These are industry led nationally validated skills standards. The assessment for certification will be at the conclusion of the course. **Students will apply for their TWIC card before graduation: paid for by GISD CTE**

Grade 9	Grade 10	Grade 11	Grade 12
Grade 9 **Business Information Management (BIM)** 1 Credit (course is also available online)	**Business Information Management II (BIM II)** 1 Credit	**INCUBTOR-Entrepreneurship** 1 Credit	**INCUBTOR 2-Entrepreneurship** 1 Credit

Business Information Management (BIM) **IAE 400**

Prerequisite: None Grades 9 1 Credit

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of Microsoft Office, emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.
All students will have the opportunity to earn the Microsoft Office Certification.

Business Information Management II (BIM II) **IAE 410**

Prerequisite: BIM I Grades 10 1 Credit

Students will implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce or postsecondary education. Students apply technical skills to address business applications of emerging technologies, create complex word-processing documents, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software. **All students will have the opportunity to continue earn the Microsoft Office Certifications based on where they left off in BIM 1**.

INCUBATOR-Entrepreneurship **IAE 440**

Prerequisite: BIM 2 years in any given career cluster Grade 12 1 Credit

Students acquire foundational business concepts, and then apply those concepts to a team business idea. Principles from the LEAN startup movement help students test their thinking. From concept to Minimum Viable Product to Pitch, students are hypothesizing, testing, adapting and learning. Importantly, they work and learn in teams. In addition to team collaboration, students are paired with business professional mentors and learn content specific information from community coaches. Mentors are volunteer guides, who advise student teams as they develop their business concepts. Coaches are volunteer subject matter experts, who share best thinking/practices in the classroom.

INCUBATOR-Entrepreneurship 2 **IAE 450**

This course provides students the opportunity to launch and gain traction for their business; allows for company formation and the establishing of a legal entity (LLC) and developing in three areas: customer acquisition, production and business processes as it suits their business. Students begin to pick up on market traction where they experience models and the real-life start-up accelerator that focuses on developing teams through mentorship, education, connections, and accountability to launch a company. Students will also learn the Iterate and Scale as the course transitions businesses founded in Incubator 1 and into sustainable, functioning ventures.

Grade 9	Grade 10-11	Grade 11	Grade 11-12	Grade 12
Computer Science 1 1 credit	**Computer Science 2** 1 credit **AP Computer Science Principles & Software Engineering (LOTE YR 1)** 1 credit	**Computer Maintenance (A+/CompTia Certification) CE/DC with GC** **AP Computer Science A (LOTE YR 2)** 1 credit	**Microsoft Office Desktop Support CE/DC** 2 credits	**CISCO-Practicum in IT (GC)** 2 credits

Computer Science 1 **STM 410**
Prerequisites: none Grades 9-10 1 Credit

This course is designed to foster students' creativity and innovation by presenting opportunities to design, implement and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor and with various electronic communities to solve the problems presented throughout the course. This course teaches the foundations of computer science and basic programming in JavaScript, with an emphasis on helping students develop logical thinking and problem solving skills. The course is visual, dynamic, and interactive making it engaging for new coders and those interested in careers in the computer industry.

Computer Science 2 **STM 420**
Prerequisites: Computer Science 1 Grades 10-11 1 Credit

This course will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

Computer Science Principles & Software Engineering AP **STM 320**
Prerequisites: Algebra 1 Grades 11-12 1 Credit

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. This course can be a student's first course in computer science, although we encourage students without prior computing experience to start with Introduction to Computer Science. CSE helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation. This course aligns with the AP Computer Science Principles course.

Computer Maintenance **STM 310**
Prerequisites: Computer Science 1 Grades 10-11 1 Credit

Students acquire principles of computer maintenance, including electrical and electronic theory, computer hardware principles, and broad level components related to the installation, diagnosis, service, and repair of computer systems. To prepare for success, students must have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. ***Students will have the opportunity to earn A+ certification through 2 exams that cover the skills of the fundamentals of computer technology, installation and configuration of PCs, laptops and related hardware, and basic networking; and those required to install and configure PC operating systems, as well as configuring common features for mobile operating systems Android and Apple iOS.***

AP Computer Science A **STM 330**
Prerequisites: AP Comp. Sci. Principles Grades 10-12 1 Credit

This course introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language. ***This course can count towards a student's foreign language graduation requirement (year 2).***

Microsoft Office Desktop Support-CE **IAE 870**
Prerequisite: none Grade 11-12 2 credits

Help desk technicians are vital to the IT workforce, as they keep the technologies that organizations rely on to do business up-to-date and running smoothly. IT help desk technicians provide technical support and troubleshooting services to end-users who need assistance with their computer hardware or software.

CISCO-Practicum in IT **IAE 880**
Prerequisite: Computer Maintenance with A+ Certification and CSE Grade: 12 2 credits

This course is designed to introduce students to CISCO routing and switching and how to successfully install, operate, and troubleshoot a small to medium-size enterprise branch network.
Students will have the opportunity to earn additional CISCO certification through ICND2: CCNA Routing and Switching.

Grade 9	Grade 10	Grade 11	Grade 12
Principles of Arts, Audio/ Video Technology & Communications 1 credit (course is also available online)	**Audio/Video Production 1** 1 credit	**Audio/Video Production 2 with Lab** 2 Credits	**Practicum and Extended Practicum in Audio/Video Production** 2-3 Credits

Principles of Arts, Audio/Video Technology & Communications MDT 500
Prerequisite: none Grades 9-10 1 Credit

Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Audio/Video Production 1 MDT 610
Prerequisite: Principles of AV Grade 9-10 1 Credit

Careers in audio and video technology and film production span all aspects of the audio/ video communications industry. Within this context, 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 activities. ***Students will have the opportunity to earn certifications in Final Cut Pro, Adobe Photoshop and Adobe Dream Weaver.***

Audio/Video Production 2 with Lab MDT 620
Prerequisite: Audio/Video Production Grade 10 -12 2 Credits

Students will participate in the Ball High School News Cast and will be involved in all aspects of producing a news cast. Skills involve scriptwriting, anchoring, camera placement and shooting, film editing, sound editing, lighting and uploading the newscast to a server. ***Students will have the opportunity to earn certifications in Adobe Photoshop, Adobe Dream Weaver, and Adobe Final Cut X-Pro.***

Practicum and Extended Practicum in A/V Production MDT 630/640
Prerequisite: Audio/Video Production 2 with Lab Grade 11-12 2-3 Credits

Students will participate in the Ball High School News Cast and will be involved in all aspects of producing a news cast. Skills involve scriptwriting, anchoring, camera placement and shooting, film editing, sound editing, lighting and uploading the newscast to a server. Additionally, students will be required to participate in off campus projects during after school hours in order to produce videos and podcasts for outside entities.

Grade 9	Grade 10	Grade 11	Grade 12
Principles of Arts, Audio/ Video Technology & Communications 1 credit (course is also available online)	**Commercial Photography 1** 1 credit	**Commercial Photography 2** 2 Credits	**Practicum in Commercial Photography** 2 Credits

Principles of Arts, Audio/Video Technology & Communications MDT 500
Prerequisite: none Grades 9-10 1 Credit

Careers in the Arts, Audio/Video Technology, and Communications career cluster require, in addition to creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication. Within this context, students will be expected to develop an understanding of the various and multifaceted career opportunities in this cluster and the knowledge, skills, and educational requirements for those opportunities.

Commercial Photography 1 MDT 100
Prerequisite: Principles of AV Grade 9-11 1 Credit

In addition to developing knowledge and skills needed for success in the Arts, Audio/ Video Technology, and Communications pathway, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

Commercial Photography 2 MDT 110
Prerequisite: Commercial Photography 1 Grade 10 -12 2 Credits

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

Practicum in Commercial Photography MDT 120
Prerequisite: Commercial Photography 2 Grade 11-12 2 Credits

Students demonstrate professional standards and employability skills in commercial photography as required by business and industry. Students are expected to participate in training, education, or certification for employment; and demonstrate positive work behaviors and personal qualities needed to be employable in this industry.

Grade 9	Grades 10	Grades 11	Grades 12
Digital Art & Animation 1 credit (course is also available online)	**Graphic Design & Illustration** 1 Credit	**Graphic Design & Illustration 2** 1 Credit	**Practicum in Graphic Design** 2 credit

Digital Art & Animation **MDT 510**

Prerequisite: none Grades 9-10 1 Credit

Careers in animation span all aspects of motion graphics. This course consists of computer images and animations created with digital imaging software. Digital Art and Animation has applications in many careers, including graphic design, advertising, web design, animation, corporate communications, illustration, character development, script writing, storyboarding, directing, producing, inking, project management, editing, and the magazine, television, film, and game industries. Students in this course will produce various real world projects and animations. Students will be expected to develop an understanding of the history and techniques of the animation industry. (***Students will have the opportunity to earn certifications in All Adobe Cloud Products)***

Graphic Design & Illustration **MDT 515**

Prerequisite: Animation Grades 10-11 1 Credit

Students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. Students will use personal information management, email, Internet, writing and publishing, presentation, and spreadsheet or database applications for art and design projects.

Graphic Design & Illustration 2 **MDT 520**

Prerequisite: Graphic Design & Illustration Grades 11-12 1 Credit

Students will use the enhancement of the Adobe Creative Suite software, which includes Photoshop, InDesign and Illustrator to create advanced graphic documents. Advanced style and techniques will be used throughout the layout and design process. The design process will be explored further, and students will be given more challenging graphic tasks and assignments which will included logo design. Activities call for students to apply problem solving methodology to analyze and formulate real world solutions. Career options will be explored in the fields of Marketing, Advertising, and Graphic Design.

Practicum in Graphic Design & Illustration **MDT 525**

Prerequisite: Animation, Graphic Design 2 Grades 11-12 1 Credit

Students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities. This course is a paid or unpaid capstone experience for students will review and discuss professional standards and employers' expectations, personal and workplace safety and emergency procedures, effective problem-solving strategies, positive interpersonal skills, the principles of ***group participation*** and teamwork, appropriate work habits, ethical conduct, and conflict-management skills. Students will also discuss the technical and academic skills required for the practicum, and put into place strategies for mastering any/all skills necessary to manage and perform work/ practicum responsibilities.

Grade 9	Grades 10	Grades 11	Grades 12
Computer Science 1 1 credit (course is also available online)	**Computer Science 2** 1 Credit **AP Computer Science Principles (LOTE YR 1)**	**Video Game Design: ESPORTS** 1 Credit **AP Computer Science A (LOTE YR 2)**	**Video Game Design 2: ESPORTS** 2 credit

Computer Science 1 **STM 410**

Prerequisites: none Grades 9-10 1 Credit

This course is designed to foster students' creativity and innovation by presenting opportunities to design, implement and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor and with various electronic communities to solve the problems presented throughout the course. This course teaches the foundations of computer science and basic programming in JavaScript, with an emphasis on helping students develop logical thinking and problem solving skills. The course is visual, dynamic, and interactive making it engaging for new coders and those interested in careers in the computer industry.

Computer Science 2 **STM 420**

Prerequisites: Computer Science 1 Grades 10-11 1 Credit

This course will foster students' creativity and innovation by presenting opportunities to design, implement, and present meaningful programs through a variety of media. Students will collaborate with one another, their instructor, and various electronic communities to solve the problems presented throughout the course. Through data analysis, students will identify task requirements, plan search strategies, and use computer science concepts to access, analyze, and evaluate information needed to solve problems. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of computer science through the study of technology operations, systems, and concepts.

Video Game Design: ESPORTS **MDT 530**

Prerequisite: Computer Science 1&2 Grades 11-12 1 Credit

Students will learn game analysis, game design, creation of characters and their environments, low-polygon modeling, and file limitations. A wide range of skills will be developed in the class including, storyboarding, sketching, rendering, animation, and program debugging. By using software design knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws and regulations and by practicing integrity and respect. Students will gain an understanding of the principles of mobile application development through the study of development platforms, programming languages, and software design standards.

Video Game Design 2: ESPORTS **MDT 540**

Prerequisite: ESPORTS Grades 11-12 1 Credit

This a competitive practicum course in which students are required to compete locally and through UIL. **Students will be selected on an application basis and must have completed ESPORTS/Video Game Design with an 80 or above.**

Grade 9	Grades 10	Grades 11	Grades 12
Principles of Agriculture, Food, and Natural Resources 1 credit	**Small Animal Management & Equine Science** 1.0 Credit	**Veterinarian Medical Application** 2 Credits **Advanced Animal Science (LOTE YR 2)**	**Practicum in Agriculture: Vet Tech Internship** 2 credit

Principles of Agriculture, Food, and Natural Resources **IAE 950**
Prerequisites: none Grades 9-10 1 Credit

This course allows students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations.

Small Animal Management and Equine Science **IAE 951**
Prerequisites: Principles of Ag Grades 10-11 1 Credit

Students during the first semester will acquire knowledge and skills related to small animals and the small animal management industry related to dogs and cats, amphibians, reptiles, and birds. During the second semester, students will learn the equine animal systems and the equine industry related to horses, donkeys, and mules.

Veterinarian Medical Applications-Lab **IAE 952**
Prerequisite: Small Animal Management Grades 11-12 2 Credits

This course covers topics relating to veterinary practices, including practices for large and small animal species. The student will be provided the opportunity to earn their Veterinarian Assistant Trainee Certificate.

Advanced Animal Science **IAE 953**
Prerequisite: Small Animal Management Grades 11-12 1 Credit

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

Practicum in Agriculture: Vet-Tech Internship **IAE 954**
Prerequisite: Advanced Animal Science and Vet. Med. App Grade 12 2 Credits

This course is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, independent study, internships, assistantships, mentorships, or laboratories. The practicum course is a paid or unpaid capstone experience for students participating in the capacity as a veterinarian technician trainee.

Grades 9 **Principles of Hospitality & Tourism** 1 Credit (course is also available online)	Grades 10 **Hotel Management** 1 Credit *Students earn State of Texas Food Handler & ServeSafe Certificates* (course is also available online)	Grades 11 **Hospitality Services** 2 credits *(intern at San Luis Resort)*	Grade 12 **Practicum in Hospitality Services** 2 Credits *(intern at San Luis Resort)*
		Grades 11 **Food Science** 1 Credit (may count as 1 of the 4 sciences required for graduation)	Grade 12 **Advanced Culinary Arts-DC** 2 Credits-Dual Credit Course: up to 8 hours

Principles of Hospitality & Tourism **IAE 600**
Prerequisites: None Grades 9-10 1 Credit

The hospitality and tourism industry encompasses lodging; travel and tourism; recreation, amusements, attractions, and resorts; and restaurants and food beverage service. The hospitality and tourism industry maintains the largest national employment base in the private sector. Students use knowledge and skills that meet industry standards to function effectively in various positions within this multifaceted industry. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Hotel Management **IAE 610**
Prerequisites: Principles of Hospitality & Tourism Grades 10-11 1 Credit

This course focuses on the knowledge and skills needed to pursue staff and management positions available in the hotel industry. This in-depth study of the lodging industry includes departments within a hotel such as front desk, food and beverage, housekeeping, maintenance, human resources, and accounting. This course will focus on, but not be limited to, professional communication, leadership, management, human resources, technology, and accounting. Students are encouraged to participate in extended learning experiences such as career and technical student organizations and other leadership or extracurricular organizations.

Hospitality Services **IAE 630**

Prerequisites: Hotel Management Grades 11-12 2 Credits

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

Practicum in Hospitality & Services **IAE 660**

Prerequisites: Hospitality Services Grades 12 2 Credits

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

Food Science **IAE 620**

Prerequisites: Biology and IPC or Chemistry Grades 11- 12 1 Credit

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

Culinary Arts-Dual Credit (up to 8hrs) **IAE 640**

Prerequisites: Principles of Hospitality, Hotel Mgt, Food Sci Grades 12 2 Credits

This course is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace. This course sequencing is offered as a laboratory-based at Galveston College where students take Saucier, Nutrition, International Cuisine, and Restaurant Spanish (total of 12 hours)

Grade 9	Grade 10	Grades 10-11	Grades 12
Business Information Management (BIM) 1 Credit (course is also available online)	**Principles of Education & Training** 1 Credit	**Child Guidance** 1 Credit	**Practicum in Education & Training (BESTT)** Students who will major in Education are able to co-enroll in education college course 1301 and 2301 2 Credits

Business Information Management (BIM) **IAE 400**
Prerequisite: None Grade 9 1 Credit

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make a successful transition to the workforce and postsecondary education. Students apply technical skills to address business applications of Microsoft Office, emerging technologies, create word-processing documents, develop a spreadsheet, formulate a database, and make an electronic presentation using appropriate software.
All students will have the opportunity to earn the Microsoft Office Certification.

Principles of Education & Training **MUL 700**
Prerequisite: BIM I Grades 10 1 Credit

Students will explore various careers available within the Education and Training Career Cluster. By using self-knowledge as it relates to educational and career information, students will analyze various careers within the Education and Training Career Cluster and develop a graduation plan that leads to a specific career choice in the student's interest area.

Child Guidance **MUL 701**
Prerequisite: BIM I & BIM II Grades 11 1 Credit

This technical laboratory course addresses the knowledge and skills related to child growth and guidance equipping students to develop positive relationships with children and effective caregiver skills. Students use these skills to promote the well-being and healthy development of children, strengthen a culturally diverse society, and pursue careers related to the care, guidance, and education of children, including those with special needs. Students will have the opportunity to earn their Child Care Worker Certification.

Practicum in Education and Training (BESTT) **MUL 702**
Prerequisites: Child Guidance and Application Grades 12 1 Credit

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

Grade 10-11	Grade 11	Grade 12
Anatomy & Physiology (will count as 1 of the student's 4 sciences) 1 credit	**Introduction to Cosmetology and Cosmetology 1** **TAUGHT AT GALVESTON COLLEGE ATC** 4 credits	**Cosmetology 2 and Cosmetology Specialist** **TAUGHT AT GALVESTON COLLEGE ATC** 4 credits

Anatomy & Physiology **SCI 922**
Prerequisite: Biology and IPC/Chemistry Grades 10 -11 1 Credit

Students conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis. (To receive credit in science, students must meet the 40% laboratory and fieldwork requirement identified in §74.3(b)(2)(C) of this title (relating to Description of a Required Secondary Curriculum).

Introduction to Cosmetology and Cosmetology 1, and Cosmetology 2 and Cosmetology Specialist **IAE 900, IAE 901, IAE 902 & LDCCTE**
Prerequisite: Anatomy & Physiology Grades 11-12 4 Credits

This high school program is dual credit only and is offered at Galveston College Applied Technical Center. Students enrolled in this program are working towards the state of Texas certification in cosmetology and an Applied Science Associate's Degree. Students gain advanced knowledge and skills specific to those needed to enter the work force as a cosmetologist. Students acquire knowledge and skills in safety, chemicals, health codes, skin and hair care, and how to interact positively in the public sector when dealing with people, their needs, and customer satisfaction. Students CAN ONLY enter this program as a junior. Upwards of 42 college hours can be earned if a student completes this 2-year program.

Grade 11	Grade 12	Grade 11-12
DC Law Enforcement 1 and **DC Correctional Services** (up to 6 college hours through GC) 1 credit	**DC Law Enforcement 2** and **DC Court Systems & Practices** (up to 6 college hours through GC) 1-2 credits	**Forensic Science (HS)** (will count as 1 of the student's 4 sciences) 1 Credit

DC Law Enforcement 1 and **DC Correctional Services** **IAE 560**
Prerequisite: TSI satisfied Grade 11 2 Credits

These classes introduce students to careers in law enforcement and related occupations. Supported by a broad general education, training is given to develop professional competence in the fields of law enforcement administration, police investigations, the prevention
and control of delinquency and crime, court systems and correctional systems.

DC Law Enforcement 2 and DC Court Systems & Practices **IAE 570**
Prerequisite: TSI satisfied Grade 12 2 Credits

Criminal Justice professionals perform a valuable and essential service for society. They function to prevent and control crime, shield the public from harm, provide detention and rehabilitation services and ensure equal justice for all citizens through the judicial system. Instruction includes both the theoretical concepts and practical applications needed for future success in the criminal justice field.

Forensic Science **SCI 901**
Prerequisite: Biology and IPC or Chemistry Grade 11-12 1 Credit

Students will use a structured and scientific approach to the investigation of crimes of assault, abuse and neglect, domestic violence, accidental death, homicide, and the psychology of criminal behavior. Students will learn terminology and investigative procedures related to crime scene, questioning, interviewing, criminal behavior characteristics, truth detection, and scientific procedures used to solve crimes. Using scientific methods, students will collect and analyze evidence through case studies and simulated crime scenes such as fingerprint analysis, ballistics, and blood spatter analysis. Students will learn the history, legal aspects, and career options for forensic science.

SPECIAL SERVICES

Students with disabilities are provided an individualized educational program with various opportunities to succeed. Annual meeting are held for students with disabilities and their parents in which an Individualized Educational Plan is developed and appropriate educational placement is determined. Students are then placed in classes in the least restrictive environment appropriate to meet their educational needs. Information regarding program planning is available from counselors and special education personnel on campus. Students with special needs should consult with their counselors as certain modifications may be appropriate for the tests listed in the previous section.

ENGLISH

BASIC ENGLISH 1—4 **ENG 105, 205, 305, 405**
Prerequisite: ARD Committee Placement Grade 9—12 1 Credit

The subject content of this course matches the grade level general education English curriculum as determined by an IEP. Topics include grammar, composition, vocabulary, reading comprehension, spelling, literature, and study skills.

APPLIED ENGLISH 1—4 **APP 201-204**
Prerequisite: ARD Committee Placement Grade 9—12 1 Credit

Communications will assist students in developing skills in the areas of expressive, receptive, written and/or Symbolic representations of language. Attention is given to the ability to communicate effectively within the range of the student's abilities (direct or through assistive devices). Students will integrate language in order to understand oral, written and/or inquiries. Communication will be examined in terms of social appropriateness, environmental Cues and prompts, understanding generalizations in real life contexts, the responsibilities of independent living and participation in the community. The subject content of this course matches the grade level general education English curriculum as determined by an IEP.

BASIC READING 1—3 **RDG 201, 202, 203**
Prerequisite: ARD Committee Placement Grades 9-12 1 Credit

Designed to meet individual student reading levels as determined by an IEP

APPLIED READING 1—4 **APP 601, 602, 603, 604**
Prerequisite: ARD Committee Placement Grades 9-12 1 Credit

Designed to meet individual student reading levels as determined by an IEP

MATHEMATICS

BASIC ALGEBRA 1 **MTH 105**
Prerequisite: ARD Committee Placement Grades 9—12 1 Credit

Students learn mathematical content related to numerical operations and the place—value system, measurement, patterns and relations, probability and statistics, and problem solving. Investigative units will provide opportunities For applying mathematical understanding to real world situations. The subject content of this course matches the grade level general education Algebra curriculum as determined by an IEP.

APPLIED ALGEBRA **APP 401**
Prerequisite: ARD Committee Placement Grades 9—12 1 Credit

These courses are designed to reinforce math operations using a variety of practical, real life situations that facilitate the understanding of using mathematics in daily living exercises. Emphasis is on applying mathematics in the use of money, personal financial situations and solving home and work problems by using the concepts of fundamental mathematics. Students practice these strategies within the context of simulations designed to reinforce the understanding of basic operations, as well as the application of these operations within technological tools that enhance understanding and accuracy.

BASIC GEOMETRY **MTH 305**
Prerequisite: ARD Committee Placement Grades 9-12 1 Credit

Students practice problem– solving skills using basic operation, relations, functions, Measurement, and geometric and algebraic concepts. Manipulative or other electronic devices will be used to explore mathematical solutions to practical situations in daily living and employment. The subject content of this course matches the grade level General education Geometry curriculum as determined by an IEP.

APPLIED GEOMETRY **APP 402**
Prerequisite: ARD Committee Placement Grades 9—12 1 Credit

These courses are designed to reinforce math operations using a variety of practical, real life situations that facilitate the understanding of using mathematics in daily living exercises. Emphasis is on applying mathematics in the use of money, personal financial situations and solving home and work problems by using the concepts of fundamental mathematics. Students practice these strategies within the context of simulations designed to reinforce the understanding of basic operations, as well as the application of these operations within technological tools that enhance understanding and accuracy.

BASIC MATH MODLES **MTH 205**
Prerequisite: ARD Committee Placement Grades 11-12 1 Credit

This course is designed to practice the concepts of mathematics within the context of our economic system focusing on the student as consumer in today's society. Particular attention is given to the consumer roles of banking, purchasing goods and services, credit benefits, abuses and responsibilities, taxes, interest rates and charges, consumer awareness, and the variety of financial institutions that assist consumers in the understanding and application of meeting individual financial needs. The basic mathematical operations, especially relating to money, are reinforced in this course of study by emphasizing personal decision making and responsibility. Attention is given to technological advances relating to the accountability of money, money access, and personal budgeting. The subject content of this course matches the grade level general education Mathematic models with applications curriculum as determined by an IEP.

APPLIED MATH MODELS **APP 403**

Prerequisite: ARD Committee Placement Grades 9—12 1 Credit

These courses are designed to reinforce math operations using a variety of practical, real life situations that facilitate the understanding of using mathematics in daily living exercises. Emphasis is on applying mathematics in the use of money, personal financial situations and solving home and work problems by using the concepts fundamental mathematics. Students practice these strategies within the context of simulations designed to reinforce the understanding of basic operations, as well as the application of these operations.

SCIENCE

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APPLIED BIOLOGY **APP 501**

Prerequisite: ARD Committee Placement Grade 9 1 Credit

The Applied Science course studies science—based concepts related specifically to independent daily living and employment. Attention is given to relating science to home and job practices that foster the understanding of student's roles and responsibilities in the care and operation of both facilities. Activities are "hands-on" experiences with an emphasis on cooperative learning strategies. Instruction is individualized according to the IEP.

APPLIED INTEGRATED PHYSICS & CHEMITRY **APP 502**

Prerequisite: ARD Committee Placement Grade 10 1 Credit

The Applied Science course studies science—based concepts related specifically to independent daily living and employment. Attention is given to relating science to home and job practices that foster the understanding of student's roles and responsibilities in the care and operation of both facilities. Activities are "hand-on" experiences with an emphasis on cooperative learning strategies. Instruction is individualized according to the IEP.

APPLIED CHEMISTRY **APP 503**

Prerequisite: ARD Committee Placement Grades 10-12 1 Credit

The Applied science course studies science—based concepts related specifically to independent daily living and employment. Attention is given to relating science to home and job practices that foster the understanding of student's roles and responsibilities in the care and operation of both facilities. Activities are "hand-on" experiences with an emphasis on cooperative learning strategies. Instruction is individualized according to the IEP.

APPLIED AQUATIC SCIENCE **APP 504**

Prerequisite: ARD Committee Placement Grade 12 1 Credit

Instruction is individualized according to the IEP.

SOCIAL STUDIES

APPLIED WORLD GEOGRAPHY **APP 301**
Prerequisite: ARD Committee Placement Grade 9 1 Credit

Community Citizenship is a course that defines the rights, privileges and responsibilities of students within their school, community and employment settings. Concepts include voting, laws, and consequences of unlawful behavior, honesty, integrity, community volunteerism, rules and regulations. Students are instructed on how to be productive and safe in a variety of community situations, including employment. Students will become familiar with basic concepts of personal responsibility related to employability and being a productive, contributing member of a business, community and/or organization. Instruction is individualized according to the IEP.

APPLIED WORLD HISTORY **APP 302**
Prerequisite: ARD Committee Placement Grade 10 1 Credit

Community Citizenship is a course that defines the rights, privileges and responsibilities of students within their school, community and employment settings. Concepts include voting, laws, and consequences of unlawful behavior, honesty, integrity, community volunteerism, rules and regulations. Students are instructed on how to be productive and safe in a variety of community situations, including employment. Students will become familiar with the basic concepts of personal responsibility related to employability and being a productive, contributing member of a business, community and/or organization. Instruction is individualized according to the IEP.

APPLIED US HISTORY **APP 303**
Prerequisite: ARD Committee Placement Grade 11 1 Credit

Survey course for students to help them understand national events.
Topics include significant historic events, people and trends having an impact on our impact on our nation today. Instruction is individualized according to the IEP

APPLIED ECONOMICS **APP 305**
Prerequisite: ARD Committee Placement Grade 12 1/2 Credit

This course will assist students to gain insight into the basic survival principles involved with earning, spending, saving and investing . Students will develop
A basic understanding of the United states monetary system and uses of money. Personal financial planning and management skills will be developed. Roles and responsibilities of consumers in the free enterprise system will also be addressed, as well as basic consumer awareness, consumer rights, and protection against fraud. Instruction is individualized according to the IEP.

APPLIED GOVERNMENT **APP 304**
Prerequisite: ARD Committee Placement Grade 12 1/2 Credit

This is a course that identifies purposes of having rules, Identifies authority figures in the home, school and community. Students will also be involved in the customs of citizenship and in celebrations that represent American beliefs and principles. Instruction is individualized according to the IEP.

APPLIED – RECREATION/LEISURE ACTIVITIES **APP 135**

Prerequisite: ARD Committee Placement Grades 9-12 1 Credit

In this course, students will participate in recreation and leisure activities such as board games, cards, dominoes, and social games. Students will learn appropriate social behavior and ways to utilize leisure time.

VOCATIONAL EXPERIENCE HALF DAY **APP 185**

Prerequisite: ARD Committee Placement Grades 10-12 1 Credit (Each semester)

Students attend classes for a half-day and the remaining half-day (4^{th} and 8^{th} periods) is spent in community employment or in-district training under the supervision of a vocational employment specialist. Evidence of successful employability and the mastery of the state mandated Exit Level exam are required for graduation.

VOCATIONAL EXPERIENCE WORKSKILLS **APP 175**

Prerequisite: ARD Committee Placement Grades 10-12 1 Credit

This course is a requirement for all special education students who are graduating under the Option 2 or Option 3 Plan. Emphasis is on acquiring employability and money management skills. The ARD committee, however, may recommend a different course, which is more applicable to the student's needs.

APPLIED COMMUNICATION APPLICATIONS **APP 110**

Prerequisite: ARD Committee Placement Grades 9-12 1/2 Credit

APPLIED HEALTH **APP 100**

Prerequisite: ARD Committee Placement Grades 9-12 1/2 Credit

APPLIED WORK SKILLS **APP 165**

Prerequisite: ARD Committee Placement Grades 9-12 1 Credit

APPLIED SOCIAL SKILLS **APP 145**

Prerequisite: ARD Committee Placement Grades 9-12 1 Credit