Angleton Independent School District
Grades 9-12
Curriculum and Resource Guide
2021 – 2022

EXCELLENCE

IS

THE

TRADITION

AND

THE

TRADITION

CONTINUES

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Table of Contents

Angleton Independent School District

Vision:

Empower Wildcats to positively transform their lives,
the community, and the world.

Mission Statement:

A tradition of excellence continues…

Beliefs:

Problem-solving, effective and appropriate communication, and personal accountability are crucial for student success.

The full potential of students is reached when education addresses the whole child – academically, emotionally, and socially – by building on students' abilities and by empowering them to be lifelong learners.

Teachers who connect with students and are passionate about the content can inspire children's desire to learn.

Students succeed when educators provide guidance, tools, and instruction targeted to individual needs.

An effective learning community has a culture that encourages innovation and inspires both individuality and collaboration in a safe environment.

We believe that promoting the success of our students and developing a strong character will have a positive impact on society and the community.

WHAT DOES IT TAKE TO GRADUATE?

Classification of Students

Student classification is determined by the number of credits accumulated by the end of the preceding year.

To be a ninth grade student (freshman) ..... successful completion of eighth grade
To be a tenth grade student (sophomore)..... 6 credits required
To be an eleventh grade student (junior)..... 12 credits required
To be a twelfth grade student (senior) ..... 19 credits required

Units of credit are determined by the semester average in each course attempted. The State of Texas has set 70 as a minimum passing grade. For each semester course passed with a 70 or above, the student receives one-half credit.

Additional Graduation Information

Special Education Students

Students with disabilities, an ARD committee defines the graduation plan and ensures the course content meets at least the minimum graduation requirements for each student receiving special education services.

Understanding Credits

Each school year consists of two semesters. One-half credit can be earned in a subject during the semester. Since students attend eight classes a day, if they pass all eight courses, they earn 4 credits. A student should earn eight credits a year. It is possible to earn a minimum of 32 credits over a four-year period.

Receiving High School Credit Prior to Enrolling in High School

Junior High Course	High School Credit earned	High School Course needed next
Algebra I	1 math credit	Geometry or PreAP Geometry
PreAP English I	1 English credit	English II or PreAP English II
PreAP Biology	1 science credit	PreAP Chemistry or PreAP Physics
Spanish I	1 foreign language credit	Spanish II
Spanish II	1 foreign language credit	State requirement has been met
PreAP Spanish III (dual language)	1 foreign language credit	AP Spanish IV
AP Spanish IV (dual language)	1 foreign language credit	N/A
Business Information Management	1 elective credit	Determined by selected career pathway and endorsement area

Depending on the program of study, students may receive credit for high school courses taken while in junior high. Once the credit is earned, it will be recorded on the student's high school transcript as indicated on the chart above. Once credit is awarded, students cannot repeat the course for state credit. Grades earned for high school courses taken while in junior high will be recorded with a numerical grade on the student's high school transcript. **Grades earned for high school courses taken while in junior high will not be calculated in the high school GPA.**

ANGLETON ISD GRADUATION PLAN
STUDENTS ENTERING GRADE 9 DURING OR AFTER 2019

Foundation Only 26 Credits	Distinguished Level of Achievement Foundation + ENDORSEMENT 26 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** – U.S. 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** • **9 credits in Electives** • (4 State Credits in Electives & 5 additional State or Local Credits in Electives)	• **4 credits English** – English I, II, III, IV or one credit in advanced English course • **4 credits Mathematics** – Algebra I, Geometry, and two additional math credits (Algebra II is required for the Distinguished level of achievement) • **4 credits Science** – Biology, one credit in IPC or in any additional authorized advanced science course, two credits in any advanced science course • **4 credits Social Studies** – U.S. History, Government, Economics, World Geography, and World History or AP Human Geography • **2 credits Language Other Than English or Computer Programming** • **1 credit Physical Education** • **1 credit Fine Arts** • **6 State credits in Electives** **Students graduating in the top 10% must complete the Distinguished Level of Achievement for Automatic College Admission.**

Please consult with your school counselor to create a Graduation Plan

Endorsements

STEM	Business & Industry	Public Services	Arts & Humanities	Multidisciplinary
Engineering Math Science	Agriculture Arts & AV & Fashion Business, Marketing, Finance Transportation Journalism Architecture & Construction Manufacturing	Education Health Science Law, Public Safety, Corrections & Security	Fine Arts Language Other Than English (LOTE) Social Studies	Four credits in each of the foundation areas to include English IV, Chemistry and/or Physics

Required State Assessments		Performance Acknowledgements	
English I English II Algebra I	U.S. History Biology	**Outstanding Performance:** Dual Credit coursework, Bilingualism/Biliteracy, AP Exam, PSAT, SAT, or ACT	**Certification:** Nationally or Internationally recognized business or industry certificate or license

ANGLETON ISD GRADUATION PLAN
STUDENTS ENTERING GRADE 9 BETWEEN 2014 AND 2018

Foundation Only 26 Credits	Distinguished Level of Achievement Foundation + END to include Algebra II 26 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** – U.S. 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** • **.5 credits of Health** • **8 credits in Electives** • (4 State Credits in Electives & 4 additional State or Local Credits in Electives)	• **4 credits English** – English I, II, III, IV or one credit in 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 • **4 credits Social Studies** – U.S. History, Government, Economics, World Geography, World History • **2 credits Language Other Than English or Computer Programming** • **1 credit Physical Education** • **1 credit Fine Arts** • **.5 credits of Professional Communication** • **.5 credits of Health** • **5 State credits in Electives** **Students graduating in the top 10% must complete the Distinguished Level of Achievement for Automatic College Admission.**

Please consult with your school counselor to create a Graduation Plan

Endorsements

STEM	Business & Industry	Public Services	Arts & Humanities	Multidisciplinary
Engineering Math Science	Agriculture Arts & AV & Fashion Business, Marketing, Finance Transportation Journalism Architecture & Construction Manufacturing	Education Health Science Law, Public Safety, Corrections & Security	Fine Arts Language Other Than English (LOTE) Social Studies	Four credits in each of the foundation areas to include English IV, Chemistry and/or Physics

Required State Assessments		Performance Acknowledgements	
English I English II Algebra I	U.S. History Biology	**Outstanding Performance:** Dual Credit coursework, Bilingualism/Biliteracy, AP Exam, PSAT, SAT, or ACT	**Certification:** Nationally or Internationally recognized business or industry certificate or license

CLASS RANK

Class rank indicates how a student's grades compare with those of other students in his class. Class rank is determined for students during the fall semester of their sophomore, junior, and senior years. Seniors will receive two additional rankings which shall be calculated during the second semester: one will be calculated at the end of the fall semester, the other one will be calculated at the end of the third nine-week grading period to identify honor graduates for senior awards ceremonies and commencement exercises. **This first ranking will not include college courses for which the student is currently enrolled**. A final calculation of GPA and class rank is determined at the completion of the senior year and after commencement exercises (including all grades earned in college courses) and will be reflected on the final transcript.

Any graduating student, including early graduates, whose grade average is among the top ten percent, will be listed as an honor graduate.

Early graduates will remain classified with their cohort through the first semester of their junior year. Reclassification will take place at the end of the first semester of the junior year.

The honor of valedictorian and salutatorian will be awarded to the students with the highest and second highest GPA's for the four years in grades 9-12 and who have been continuously enrolled at Angleton High School for the last four semesters as determined at the end of the third nine-week grading period.

Class Rank and GPA

Class rank shall be determined by the number of accumulated grade points divided by the number of courses for which final grades have been earned. Class rank and GPA shall include all coursework taken in grades 9-12, including all correspondence credits, credit recovery courses, credit by examination for which credit is earned, summer school credits (beginning with courses taken as a ninth grader in the summer preceding the student's ninth grade year), approved distance learning course credits, and approved dual enrollment courses. Credit for courses for which only a pass/fail grade has been earned, high school courses taken prior to ninth grade, and non-accredited instruction shall **NOT** be included in determining class rank and GPA.

CLASS RANK SCALE

Class rank is important and is usually a critical factor that is considered during the college admission process. Minimum required SAT/ACT scores are determined according to class rank and are not consistent among all colleges and universities. Please contact your child's guidance counselor for more information.

The following grade point scale is used to determine class rank.

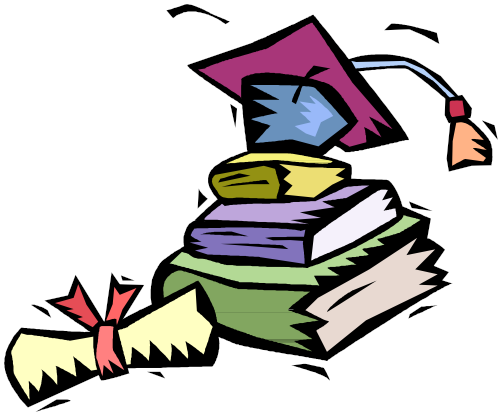
	Pre-AP/AP Selected Dual/Concurrent	Regular	Modified
Grade	**Points**	**Points**	**Points**
100	8.0	6.0	5.0
99	7.9	5.9	4.9
98	7.8	5.8	4.8
97	7.7	5.7	4.7
96	7.6	5.6	4.6
95	7.5	5.5	4.5
94	7.4	5.4	4.4
93	7.3	5.3	4.3
92	7.2	5.2	4.2
91	7.1	5.1	4.1
90	7.0	5.0	4.0
89	6.9	4.9	3.9
88	6.8	4.8	3.8
87	6.7	4.7	3.7
86	6.6	4.6	3.6
85	6.5	4.5	3.5
84	6.4	4.4	3.4
83	6.3	4.3	3.3
82	6.2	4.2	3.2
81	6.1	4.1	3.1
80	6.0	4.0	3.0
79	5.9	3.9	2.9
78	5.8	3.8	2.8
77	5.7	3.7	2.7
76	5.6	3.6	2.6
75	5.5	3.5	2.5
74	5.4	3.4	2.4
73	5.3	3.3	2.3
72	5.2	3.2	2.2
71	5.1	3.1	2.1
70	5.0	3.0	2.0

Transfer Students

A student who transfers into Angleton High School with higher-level course credits shall receive similar credits counted toward the GPA according to the list of higher-level courses offered in the district and the grade point scale used for credit earned in the district.

Students transferring into the district shall receive the numerical grade earned in courses at their previous schools. Letter grades shall be recorded as follows:

Conversion Scale	
A	95
B	85
C	75
D	70
F	60



Grade Point Categories

Grade point categories shall be as follows:

Courses that have been modified by the student's ARD committee as to the required content of the Texas Essential Knowledge and Skills (TEKS), as reflected in the student's Individual Education Plan (IEP), shall not earn the same number of grade points as regular courses.

Regular courses shall be based on the required content outlined in the TEKS.

PreAP, AP and dual-concurrent courses shall be college preparatory level courses or actual college level courses.

Courses that receive weighted grade points shall be counted as PreAP, AP or dual courses for purposes of class rank and GPA. Courses offered with higher grade points shall be listed in the curriculum handbook approved by the Angleton Independent School District Board of Trustees annually. Availability of these courses may vary from year to year due to levels of participation, staffing constraints, or program changes. Students shall earn the category of grade points for each course in accordance with the curriculum handbook.

OPPORTUNITIES TO EARN COLLEGE CREDIT

There are several ways students can earn college credit while in high school. Students have the opportunity to take dual credit courses or Advanced Placement courses.

Dual credit can be obtained through the following programs:

Brazosport College – Courses are offered at AHS, at the college campus, and on-line. Students must visit with Heather Dodge, the dual credit counselor in the AHS Counseling Center to register. Financial aid is available for qualifying students.

Students and parents can access the Brazosport College Concurrent and Dual Credit Guidebook via http://brazosport.edu/students/for-students/counseling-testing/dual-credit/angleton-high-school/. This guidebook book will explain procedures and timelines regarding registration for dual credit courses. Tuition assistance is available for students who meet the criteria. All dual credit course grades will be recorded numerically and used in averaging high school GPA. To receive high school credit for a dual credit course, a student must earn at least a 70 or higher in the college course.

Prior to enrolling in dual credit courses, it is important for students to understand that colleges and universities can have different academic requirements and that some courses may not transfer to all colleges or universities. It is important to be as informed and knowledgeable as possible about the requirements of each college or university you may be interested in applying to or attending.

For specific information on what high school students can do to become “core complete” and to view specific transfer plans and course requirements for many of the public colleges and universities in Texas, visit http://catalog.brazosport.edu/content.php?catoid=13&navoid=1847.

Articulated Credit Agreements

Students enrolled in specific Career & Technology courses at Angleton High School are eligible to earn **free** college credit. In order to obtain the **free** credit, students must complete a sequence of CTE courses at Angleton High School and enroll in the same program of study at the college level. Students must earn a grade of 80 or higher to be eligible to receive this credit. For more information on articulated credit agreements, visit: www.claimcollegecredit.org.

Dual Credit Courses at Brazosport College

BC Course	BC Credit	BC Course Title	BC Core Area/Certificate	AHS Course Title	PEIMS	Measure/ Weighted GPA	AHS Credit
English/Language Arts *Must demonstrate college readiness in Reading & Writing as defined by Texas Administrative Code (TAC) 4.85b*							
ENGL1301 ENGL 1302	3 3	Composition & Rhetoric I Composition & Rhetoric II	Communications (010) Institutional Component Area (090)	English IV	3220400	Y	1*
ENGL1301 HUMA 1301	3 3	Composition & Rhetoric I Introduction to Humanities	Communications (010) Language, Philosophy, and Culture (040)	English IV	3220400	Y	1*
ENGL1302 HUMA 1301	3 3	Composition & Rhetoric II Introduction to Humanities	Institutional Component Area (090) Language, Philosophy, and Culture (040)	English IV	3220400	Y	1*
Fine Arts *Must demonstrate college readiness in Reading & Writing as defined by TAC 4.85b*							
ARTS 1301	3	Art Appreciation	Creative Arts (050)	Art I	3500100	Y	1
DRAM 1310 DRAM 1351	3 3	Introduction to Theatre Beginning Acting	Creative Arts (050) Not in Core Curriculum at BC	Theatre Arts I	3250100	N	1*
Mathematics *Must demonstrate college readiness in Math as defined by TAC 4.85b*							
STEM Pathway							
MATH1414 MATH 2412	4 4	College Algebra for Calculus Pre Calculus @	Mathematics (020) Mathematics (020)	Precalculus	3101100	Y	1*
MATH 2413 MATH 2414	4 4	Calculus I @ Calculus II @	Mathematics (020) Mathematics (020)	Independent Study in Math II	03102501 (second time taken)	Y	1*
Business Pathway							
MATH 1324 MATH 1325	3 3	Finite Mathematics Business Calculus @	Mathematics (020) Mathematics (020)	Independent Study in Math I	03102500 (first time taken)	Y	1*
Education Pathway							
MATH 1314 MATH 1350	3 3	College Algebra Fundamentals of Math I @	Mathematics (020) Mathematics (020)	Independent Study in Math I	03102500 (first time taken)	Y	1*
Fine Arts Pathway							
MATH 1314 MATH 1342	3 3	College Algebra Statistics	Mathematics (020) Mathematics (020)	Independent Study in Math I	03102500 (first time taken)	Y	1*
Multidisciplinary Pathway							
MATH 1332	3	Quantitative Reasoning	Mathematics (020)	Adv Quantitative Reasoning	3102510	Y	1
MATH 1342	3	Statistics	Mathematics (020)	Statistics	3102530	Y	1
Science *Must demonstrate college readiness in Reading & Writing as defined by TAC 4.85b*							
BIOL 1306/1106 BIOL 1307/1107	4 4	General Biology I/ Lab General Biology II/ Lab @	Life and Physical Sciences (030) Life and Physical Sciences (030)	AP Biology	A3010200	Y	1*

BC Course	BC Credit	BC Course Title	BC Core Area/Certificate	AHS Course Title	PEIMS	Measure/ Weighted GPA	AHS Credit
BIOL 2301/2101	4	Human Anatomy & Physiology I/Lab	Not in Core Curriculum at BC	AP Biology	A3010200	Y	1
BIOL 2302/2102	4	Human Anatomy & Physiology II/Lab	Not in Core Curriculum at BC				
ENVR 1301/1101	4	Environmental Science I/Lab	Life and Physical Sciences (030)	Environmental Systems	3020000	Y	1
ENVR 1302/1102	4	Environmental Science II/Lab	Life and Physical Sciences (030)				
Science *Must demonstrate college readiness in Reading, Writing, & Math as defined by TAC 4.85b*							
CHEM 1311/1111	4	General Chemistry I / Lab #	Life and Physical Sciences (030)	AP Chemistry	A3040000	Y	1*
CHEM 1312/1112	4	General Chemistry II / Lab @	Life and Physical Sciences (030)				
CHEM 1305/1105	4	Introductory Chemistry with Lab #	Not in Core Curriculum at BC	Scientific Research & Design: Intro Chem/ Technical Physics	13037200	Y	1*
CTEC 1401/1401L	4	Technical Physics with Lab	Not in Core Curriculum at BC				
PHYS 1301/1101	4	College Physics I / Lab @	Life and Physical Sciences (030) Life and Physical Sciences (030)	Physics	3050000	Y	1*
PHYS 1302/1102	4	College Physics II / Lab @					
Social Studies *Must demonstrate college readiness in Reading, Writing, & Math as defined by TAC 4.85b*							
Business Pathway							
ECON 2301	3	Principles of Economics I	Social & Behavioral Science (080)	Economics	3310300	Y	1/2
Social Studies *Must demonstrate college readiness in Reading & Writing as defined by TAC 4.85b*							
GEOG 1303	3	World Regional Geography	Social & Behavioral Science (080)	World Geography	3320100	Y	1
GOVT 2305	3	Federal Government	Government/ Political Science (070)	U.S. Government	3330100	Y	.5
GOVT 2306	3	Texas Government	Government/ Political Science (070)	Special Topics in Social Studies	03380002		.5
HIST 1301	3	US History to 1877	American History (060)	US History	03340100	Y	1*
HIST 1302	3	US History 1877 to Present	American History (060)				
PSYC 2301	3	General Psychology	Social & Behavioral Science (080)	Psychology	3350100	Y	1/2
SOCI 1301	3	Introduction to Sociology	Social & Behavioral Science (080)	Sociology	3370100	Y	1/2
Speech *Must demonstrate college readiness in Reading & Writing as defined by TAC 4.85b*							
SPCH 1315	3	Fundamentals of Speech	Communications (010)	Professional Communications	13009900	Y	1/2

BC Course	BC Credit	BC Course Title	BC Core Area/Certificate	AHS Course Title	PEIMS	Measure/ Weighted GPA	AHS Credit
Other Academic Courses *Must demonstrate college readiness in Reading & Writing as defined by TAC 4.85b*							
PSYC 1300	3	Learning Frameworks	Institutional Component Area (090)	College Readiness & Study Skills	3270100	Y	1/2
SPAN 1411	4	Beginning Spanish I	Not in Core Curriculum at BC	Spanish I	3440100	N	1
SPAN 1412	4	Beginning Spanish II	Not in Core Curriculum at BC	Spanish II	3440200	N	1
SPAN 2311	3	Intermediate Spanish I	Not in Core Curriculum at BC	Spanish III	3440300	N	1
SPAN 2312	3	Intermediate Spanish II	Not in Core Curriculum at BC	Spanish IV	3440400	Y	1
ACCT 2401	4	Principles of Accounting I	Not in Core Curriculum at BC	Accounting I	13016600	N	1
ACCT 2402	4	Principles of Accounting II	Not in Core Curriculum at BC	Accounting II	13016700	N	1
Architecture & Construction Area Program of Study: Drafting							
CNBT 1300	3	Residential & Light Commercial Blueprint Reading		Principles of Architecture	13004210		1
DFTG 1305 DFTG 1309	3 3	Technical Drafting Basic Computer Aided Drafting		Architectural Design I	13004600		1
DFTG 2319 DFTG 1325	3 3	Intermediate Computer-Aided Drafting Blueprint Reading & Sketching		Architectural Design II	13004700		2
DFTG 1380 DFTG 1381	3 3	Co-op Education I – Drafting Co-op Education II - Drafting		Career Preparation I	12701305		3
Students completing CNBT 1300, DFTG 1305,1309, 2319,1380 & 1381 with a "C" or better earn a **Drafting Technology - Basic Certificate** at Brazosport College Apply at www.brazosport/edu/graduation							
Architecture & Construction Area Program of Study: Construction Management							
CNBT 1318	3	Construction Tools & Techniques	NCCER Core Eligible	Principles of Construction	13004220		1
CNBT 1311 ITSC 1301	3 3	Construction Methods and Materials Intro to Computers		Construction Management I	13004900		2*
CNBT 2342 CNBT 2310	3 3	Construction Management I Blueprint Reading		Construction Management II	13005000		2*
CNBT 1380 CNBT 1381	3 3	Co-op I – Construction Technology Co-op II - construction Technology		Career Preparation I	12701305		3*
Students completing CNBT 1318,1311,2342, 2310, 1380 & ITSC 1301 with a "C" or better earn an **Industrial & Commercial Construction: Construction Management - Basic Certificate** at Brazosport College Apply at www.brazosport/edu/graduation							
Architecture & Construction Area Program of Study: Electrical							
CNBT 1318	3	Construction Tools & Techniques	NCCER Core Eligible	Principles of Construction	13004220		1

BC Course	BC Credit	BC Course Title	BC Core Area/Certificate	AHS Course Title	PEIMS	Measure/ Weighted GPA	AHS Credit
ELPT 1319 ELPT 1329 **OR** ELPT 1319 ELPT 1345	3 3 3 3	Fundamentals of Electricity Residential Wiring **OR** Fundamentals of Electricity Commercial Wiring	ELPT 1319 & 1329 are required for NCCER Level 1 certificate eligibility (with completion of NCCER core)	Electrical Technology I	13005600		2*
ELPT 1357 ELPT 1329 **OR** ELPT 1357 ELPT 1345	3 3 3 3	Industrial Wiring Residential Wiring **OR** Industrial Wiring Commercial Wiring	ELPT 1345 & 1357 are required for NCCER Level 2 certificate eligibility (with completion of NCCER core)	Electrical Technology II	13005700		2*
ELTN 1380 ELTN 1381	3 3	Co-op I – Electrician Co-op II - Electrician		Career Preparation I	12701305		3*
Students completing ELPT 1321,1319,1329, 1345, 1357, & CNBT 1318 with a "C" or better earn an **Industrial & Commercial Electricity - Basic Certificate** at Brazosport College Apply at www.brazosport/edu/graduation							
Architecture & Construction Area Program of Study: Heating, Ventilation, & Air Conditioning (HVAC)							
CNBT 1318	3	Construction Tools & Techniques	NCCER Core Eligible	Principles of Construction	13004220		1
HART 1401 HART 1410	4 4	Basic Electricity for HVAC Shop Practices and Tools	HART 1401 & 1410 are 2 of 4 courses required for NCCER Level 1 certificate eligibility (with completion of NCCER Core)	HVAC & Refrigeration Tech I	13005800		1*
HART 1403 HART 1407	4 4	Air Conditioning Control Principle Refrigeration Principles	HART 1407 is 1 of 4 courses required for NCCER Level 1 certificate eligibility (with completion of NCCER Core)	HVAC & Refrigeration Tech II	13005900		2*
Students completing HART 1401,1403,1407, &1410 with a "C" or better earn a **HVAC Technology - Basic Certificate** at Brazosport College Apply at www.brazosport/edu/graduation							
Architecture & Construction Area Program of Study: Pipefitting							
CNBT 1318	3	Construction Tools & Techniques		Principles of Construction	13004220		1
PFPB 1305 PFPB 1308	3 3	Basic Blueprint Reading for Pipefitters Basic Pipefitting Skills	PFPB 1308 is required for NCCER Level 1 certificate eligibility (with completion of NCCER Core)	Pipefitting Technology I	N1300425		1*
PFPB 2310 PFPB 2307	3 3	Inter. Blueprint Reading for Pipefitters Pipe Fabrication & Installation I		Pipefitting Technology II	N1300426		1*
PFPB 1380 PFPB 1381	3 3	Cooperative Education I – Pipefitter Cooperative Education II – Pipefitter		Career Preparation I	412701305		3*
Students completing CNBT 1318, PFPB 1305,1308, 2310, 2307, & 1380 with a "C" or better earn a **Pipefitting (General) - Basic Certificate** at Brazosport College Apply at www.brazosport/edu/graduation							

BC Course	BC Credit	BC Course Title	BC Core Area/Certificate	AHS Course Title	PEIMS	Measure/ Weighted GPA	AHS Credit
Business, Marketing, Finance Program of Study: Accounting							
BMGT 1327 MRKG 1311	3 3	Principles of Management Principles of Marketing		Principles of Business, Marketing, & Finance	13011200		1*
ACNT 1303 (CTE) **OR** ACCT 2401 (Academic)	3 3	Intro to Accounting I (office) **OR** Principles of Accounting I		Accounting I	13016600		1
ACNT 1325 (CTE) **OR** ACCT 2402 (Academic)	3 3	Principles of Accounting (office) **OR** Principles of Accounting II		Accounting II	13016700		1
POFI 1380 POFI 1381	3 3	Co - Op Education I - Business/ Office Automation/ Tech Co - Op Education II - Business/ Office Automation/ Tech		Career Preparation I	12701305		3*
Business, Marketing, Finance Program of Study: Business Management							
BMGT 1327 MRKG 1311	3 3	Principles of Management Principles of Marketing		Principles of Business, Marketing, & Finance	13011200		1*
ITSC 1301 (CTE) **OR** BCIS 1405 (Academic)	3 4	Intro to Computers Business Computer Applications		Business Information Management (BIM) I	13011400		1
POFT 2312 POFT 1328	3 3	Business Correspondence & Comm Business & Professional Presentations		Business Information Management (BIM) II/Lab	13011510		2*
POFI 1380 POFI 1381	3 3	Co - Op Education I - Business/ Office Automation/ Tech Co - Op Education II - Business/ Office Automation/ Tech		Career Preparation I	12701305		3*
Catalyst is a selective program that provides a pathway to Associate of Applied Science degree completion 1 year out of high school. Programs of study lead to an in-demand, high wage-earning career. Students selected for Catalyst will follow the Catalyst pathway, take courses together in a cohort, and expected to earn a "C" or higher in each course. AISD will pay for tuition, fees, and textbooks for students accepted and meeting academic requirements into the Catalyst program. Upon high school graduation, Brazosport College will pay for tuition, fees, & textbooks for Catalyst students continuing the Catalyst pathway. For more information visit www.brazosport.edu/Catalyst							
All Catalyst Juniors must demonstrate college readiness in English, Language Arts, Reading (ELAR) as defined by Texas Administrative Code (TAC) 4.85b *All Catalyst Seniors must demonstrate college readiness in English, Language Arts, Reading (ELAR) & Math as defined by Texas Administrative Code (TAC) 4.85b*							
Catalyst Pathway: Chemical Technology- Process Operations							
PSYC 1300	3	Learning Frameworks	Institutional Component Area (090)	College Readiness & Study Skills-S1	3270100	Y	½
PTAC 1302	3	Introduction to Process Technology		Introduction to Process Technology-S1	13040502	Y	1
SPCH 1315	3	Fundamentals of Speech	Communication (010)	Professional Communication-S2	13009900	Y	½
PTAC 1410	4	Process Technology - Equipment I		Oil & Gas Production System-S2	13001250	Y	1

BC Course	BC Credit	BC Course Title	BC Core Area/Certificate	AHS Course Title	PEIMS	Measure/ Weighted GPA	AHS Credit
PTAC 1432	4	Process Instrumentation		Oil & Gas Production Systems II-S3	13001260	Y	1
MATH 1332	3	Quantitative Reasoning	Mathematics (020)	Adv Quantitative Reasoning-S3	3102510	Y	1
CHEM 1305/1105 CTEC 1401/1401L	4 4	Introductory Chemistry with Lab # Technical Physics with lab	Not in Core Curriculum at BC	Scientific Research & Design: Intro Chem/ Technical Physics S3/S4	13037200	Y	1*
ENGL 1301 HUMA 1301	3	Composition & Rhetoric I Introductions to Humanities	Communications (010) Language, Philosophy, and Culture (040)	English IV- S3/S4	3220400	Y	1*
PTAC 1308	3	Safety, Health, & Environment		Petrochemical Safety, Health, & Environmental- S4	13040504	Y	1
Students completing PTAC 1302, 1410, 1308, 1432, CHEM 1305 & 1105 with a "C" or better earn a **Process Operations- Basic Certificate** at Brazosport College Apply at www.brazosport.edu/graduation							
Catalyst Pathway: Instrumentation Technology							
PSYC 1300	3	Learning Frameworks	Institutional Component Area (090)	College Readiness & Study Skills- S1	3270100	Y	½
INTC 1401	4	Principals of Industrial Measurements I		Manufacturing Engineering Technology I-S1	13032900	Y	1
SPCH 1315	3	Fundamentals of Speech	Communications (010)	Professional Communications- S2	13009900	Y	½
PTAC 1410	4	Process Technology- Equipment I		Oil and Gas Production Systems I- S2	13001250	Y	1
INTC 1441	4	Principles of Automatic Control		Digital Electronics Instrumentation Pathway-S3	13037600	Y	1
ITSC 1301	3	Introduction of Computers		Principles of Info Technology-S3	13027200	Y	1
MATH 1332	3	Quantitative Reasoning	Mathematics (020)	Adv Quantitative Reasoning-S3	3102510	Y	1
ENGL 1301 HUMA 1301	3 3	Composition & Rhetoric I Introduction of Humanities	Communications (010) Language, Philosophy, and Culture (040)	Englsih IV- S3/ S4	3220400	Y	1*
INTC 1315	3	Final Control Systems		AC/DC Electronic-S4	13036800	Y	1
INTC 1291	2	Special Topics: Test Equipment		Occupational Safety & Environmental Technology I- S4	N1303680	Y	1
Students completing INTC 1401, 1441, 1315, 1291, & 1441 with a "C" or better earn a **Instrumentational & Electric (I&E)- Basic Certificate** at Brazosport College Apply at www.brazosport.edu/graduation							
Health Science							
HITT 1305	3	Medical Terminology		Medical Terminology	13020300		1
Information Technology Program of Study: Networking Systems							
ITSC 1301	3	Introduction to Computers		Principles of Information Technology	13027200		1
ITSC 1305	3	PC Operating Systems		Computer Science I	3580200		1
ITNW 1325	3	Fundamentals of Network Tech		Networking	13027400		1

BC Course	BC Credit	BC Course Title	BC Core Area/Certificate	AHS Course Title	PEIMS	Measure/ Weighted GPA	AHS Credit
Information Technology **Program of Study: Web Development**							
ITSC 1301	3	Introduction to Computers		Principles of Information Technology	13027200		1
ITSE 1313 ITSE 1332	3 3	Internet/Web Page Development Intro to Visual Basic Programming		Web Technologies	13027900		1*
IMED 1316	3	Web Design I	Microsoft Technology Associate (for Exam 98-383) AND WOW Certified Web Designer (CWDSA)	Web Design	3580820		1
Manufacturing **Program of Study: Manufacturing Technology**							
MCHN 1302	3	Print Reading for Machining Trades		Blueprint Reading for Manufacturing Applications	N1303684		1
MCHN 1343	3	Machine Shop Mathematics		Diversified Manufacturing I	13032650		1
MCHN 1338 MCHN 1341 **OR** MCHN 1325 MCHN 1329	3 3 **OR** 3 3	Basic Machine Shop I Basic Machine Shop II **OR** Millwright I Millwright II	MCHN 1325 is required for NCCER Level 1 certificate eligibility (with completion of NCCER Core)	Precision Metal Manufacturing I	13032500		2*
MCHN 1352 MCHN 1354 **OR** MCHN 2305 MCHN 2307	3 3 **OR** 3 3	Intermediate Machining I Intermediate Machining II **OR** Millwright III Millwright IV		Precision Metal Manufacturing II/Lab	13032610		3*
MCHN 1380 MCHN 1381	3 3	Co-op Education I - Machinist Technology Co-op Education II - Machinist Technology		Practicum in Manufacturing	13033005		3*
Students completing MCHN 1302, 1338, 1341, 1343,1352,1354,1380 & 1381 with a "C" or better earn a **Machine Technology: Machinist Specialty - Basic Certificate** at Brazosport College Apply at www.brazosport/edu/graduation							
Manufacturing **Program of Study: Welding** *Only Seniors completing Welding pathway May 2022*							
WLDG 2406 WLDG 2447	4 4	Int Pipe Welding Adv Gas Metal Arc Welding (GMAW)	WLDG 2406 is 1 of 3 courses required for NCCER Level 1 certificate eligibility (with completion of NCCER Core)	Welding II Welding II Lab	13032410		2 1
Students completing WLDG 1428, 2443, 2406, & 2447 with a "C" or better earn a **Welding - Basic Certificate** in 2021-2022 catalog at Brazosport College Apply at www.brazosport/edu/graduation							

BC Course	BC Credit	BC Course Title	BC Core Area/Certificate	AHS Course Title	PEIMS	Measure/ Weighted GPA	AHS Credit
Manufacturing Program of Study: Welding							
CNBT 1318	3	Construction Tools & Techniques	NCCER Core Eligible	Introduction to Welding	13032250		3
WLDG 1428 WLDG 1412	4 4	Intro to Shielded Metal Arc Welding Intro to Flux Cored Arc Welding		Welding	1302300		2*
WLDG 1430 WLDG 1434	4 4	Intro to Gas Metal Arc Welding Intro to Gas Tungsten Arc Welding		Welding II + Lab	13032410		3*
Students completing CNBT 1318, WLDG 1428, 1412, & 1434 with a "C" or better earn a **Welding - Basic Certificate** in 2021-22 catalog at Brazosport College Apply at www.brazosport/edu/graduation							
Transportation, Distribution, & Logistics Program of Study: Automotive							
AUMT 1405 AUMT 1410	4 4	Intro to Automotive Technology Automotive Brake Sysytems	Successful completion of AUMT 1405 Earns: SP2 Mechanical Certification Safety Pollution Prevention Cert	Automotive Technology I Automotive Chassis Track-SO	13039600		2*
AUMT 1407 AUMT 1416	4 4	Automotive Electrical Sysytems Automotive Suspension & Steering Systems		Automotive Technology II/Lab Automotive Chassis Track- JR	13039710		3*
AUMT 1380 AUMT 1381	4 4	Co-Op Education I- Automotive Co-Op Education II- Automotive		Practicum in Transportation Systems Automotive Chassis Track-SR	13040450		2*
Students completing AUMT 1405, 1407, 1410, & 1416 with a "C" or better earn a **Automotive Technology- Basic Certificate** at Brazosport College Apply at www.brazosport/edu/graduation							

PREAP AND AP COURSES

Angleton Independent School District offers a variety of PreAP and Advanced Placement (AP) courses to select from. PreAP courses are more rigorous sections of selected subjects that focus on higher-level thinking skills, challenging work and projects that aim to extend student knowledge, and preparation for AP courses and examinations. The content of these courses is explored at a deeper level and the pacing of these courses is accelerated.

The Advanced Placement Program® has enabled millions of students to take college-level courses and earn college credit, advanced placement, or both, while still in high school. AP Exams are given each year in May. Students who earn a qualifying score on an AP Exam are typically eligible, in college, to receive credit, placement into advanced courses, or both. Every aspect of AP course and exam development is the result of collaboration between AP teachers and college faculty. They work together to develop AP courses and exams, set scoring standards, and score the exams. College professors review every AP teacher's course syllabus. Students enrolled in AP courses are expected to take the AP exam. For more information on the Advanced Placement Program, visit https://apstudent.collegeboard.org/exploreap. Prior to enrolling in an Advanced Placement course, students and parents are strongly encouraged to contact four year universities and colleges of interest to fully understand their respective Advanced Placement credit policies, as they vary by institution.

Please note that students will be allowed to transfer between class levels only until the end of the sixth week of a semester and at the end of a semester.

COURSE CREDIT SUMMARY

Pre-AP/AP and Dual/Concurrent Courses: The AP courses follow the recommendations of the College Board Advanced Placement Program and are designed to enable students to earn college credit by performing satisfactorily on the AP examinations. College Board Advanced Placement examinations are offered in May of each year. Those who achieve the required scores may receive college credit from participating colleges. The pre-AP courses listed do not earn college credit. However, they are recommended to help prepare for the AP courses.

Students in grades 9 – 12 who take the following courses will receive upper level grade points:

Pre-AP English 1
Pre-AP English 2
AP Language and Composition
AP Literature and Composition/Dual Credit
AP Capstone in Seminar
AP Capstone in Research

Pre-AP Algebra I
Pre-AP Algebra 2
Pre-AP Geometry
Pre-AP Pre-Calculus/Dual Credit
AP Calculus AB/Dual Credit
AP Statistics
Advanced Quantitative Reasoning/Dual Credit
AP Spanish IV
AP Art III
AP Art IV
AP Computer Science Principles
Dual Speech (Professional Communications)
*AP Music Theory

Pre-AP Biology
Pre-AP Chemistry
Pre-AP Physics
AP Biology/Dual Credit
AP Chemistry/Dual Credit
AP Physics 1/Dual Credit
*AP Environmental Science

Pre-AP World Geography
*AP Human Geography
AP World History
AP U.S. History/Dual Credit
AP Government/Dual Credit
AP Macro Economics/Dual Credit
*AP Psychology
College Readiness &
Study Skills (Learning Frameworks)

*Intro to Process Technology
*Process Technology I – Equipment
*Process Technology – Instrumentation
*Process Technology – Safety, Health, &
*Environment
*Principles of Industrial Measurements
*Principles of Auto Control
*Final Control Elements
*Introduction to PC Operating Systems
*Fundamentals of Networking Technology

Elective courses marked with an * will be available for any student in grades 9 through 12 beginning in the fall of 2019. All other elective course additions will be available to students beginning with the in-coming freshman class of 2019.

CREDIT BY EXAM

Some students may earn high school credit for a course by successfully taking an exam covering the course curriculum. Students may take exams to graduate early but must meet all graduation requirements and take the exams on the two annual dates set by the district. All testing requirements (EOC exams) still apply and students are not encouraged to utilize credit by exam for courses requiring an EOC.

District Credit-by-Exam

Credit may be obtained through successful completion of a mastery test which is administered two times a year. A student may take a maximum of three exams (1/2 credit each) per test administration. Without prior instruction, a student must make a score of an 80; with prior instruction, a student must make a score of 90. Students must register with their assigned counselors.

Texas Tech/University of Texas Credit-by-Exam

If a parent requests an alternative examination, the district may administer and recognize the results of a test purchased by the parent or student from Texas Tech University or the University of Texas at Austin. Students should contact the appropriate counselor to order the test.

REQUIRED STATE ASSESSMENTS FOR GRADUATION

Students first entering grade 9 during 2011-2012 or later: STAAR (State of Texas Assessments of Academic Readiness) End-of-Course (EOC) Requirements for Graduation:

In 2013, House Bill 5 was enacted which requires administration of end-of-course assessment instruments in Algebra I, Biology, English I, English II, and US History. The EOC assessments are part of the graduation requirements beginning with the freshman class of 2011-2012.

Each EOC exam will have a designated satisfactory performance score. If the student does not meet the score requirement, the student will be required to retake the test. STAAR EOC Assessments are administered in the spring, summer, and fall each year.

SPECIAL EDUCATION

Students with disabilities are provided an individualized educational program with various opportunities to succeed. Annual meetings are held with students with disabilities and their parents in which an Individualized Educational Plan (IEP) 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. IEP progress reports document progress toward successful completion of IEP goals and objectives. Students with special needs should consult with their counselors as certain accommodations may be approved for tests listed on the previous pages.

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 Center. 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 http://www.ncaa.org
Students wanting to participate in Division I or Division II sports should start the certification process by the end of their junior year.

A free copy of *The Guide for College Bound Student-Athlete* is available by calling 1-800-638-3731 or by visiting the website at http://www.ncaa.org for more information.

THE NATIONAL ASSOCIATION OF INTERCOLLEGIATE ATHLETICS (NAIA)

The NAIA Eligibility Center is responsible for determining the NAIA eligibility of first-time student athletes. Students must have their eligibility determined by the NAIA Eligibility Center, and all NAIA schools are bound by the center's decisions. For specific academic requirements, to find an NAIA school, and to register, visit the website at www.playnaia.org.

Angleton Independent School District
Course Selection Guide 2020-2021

ENGLISH LANGUAGE ARTS/READING

ENGLISH I* **10100**
Credit: 1

This course emphasizes reading skills, written composition, basic mechanics and a study of literature by type. English I EOC review and preparation is included as part of the curriculum.

PRE-AP ENGLISH I* **10300**
Credit: 1

Students will continue to improve their reading and writing skills. This class emphasizes advanced reading, language study, analytical reasoning skills, literary analysis, and persuasive writing in preparation for the Advanced Placement exams in language and literature. Although EOC preparation is not the primary focus of pre-AP and AP courses, EOC preparation will be included in the curriculum.

ENGLISH II* **11100**
Credit: 1

This course emphasizes reading skills, written composition, basic mechanics and a study of literature by type. English I EOC review and preparation is included as part of the curriculum.

PRE-AP ENGLISH II* **11300**
Credit: 1

This course provides an opportunity to develop analytical and creative thinking skills through a course of study that requires a high degree of independence and initiative. Student achievement is demonstrated in numerous formats such as oral and group presentations, research projects, and extensive readings integrated into units of study designed to help prepare students for AP English.

ENGLISH III **12100**
Credit: 1

This course consists of a study of American literature from the seventeenth century to the present, and a review of grammar. Literature is augmented by themes and papers stressing content, correct form, and grammatical accuracy. The course content includes non-fiction, drama, the novel, and college readiness.

AP ENGLISH III: LANGUAGE AND COMPOSITION **12300**
Credit: 1

This college level course enables students to read complex texts with understanding and to write prose of sufficient richness and complexity to communicate effectively with mature readers. Both their writing and their reading should make students aware of the interactions among a writer's purposes, audience expectations, subjects, as well as the way genre conventions and the resources of language contributing to the effectiveness in writing. Emphasis is on the expository, analytical and argumentative writing that forms the basis of academic and professional communication, as well as the personal and reflective writing that fosters the development of writing facility in any context. The course requires students to read primary and secondary sources carefully, to synthesize material from these texts in their own compositions, and to cite sources using conventions recommended by professional organizations. This course prepares students to take AP English and Composition examination during the spring semester; students who receive a score of "3" or better may receive college credit for this course. This class may be assigned work to be completed during the summer break.

ENGLISH IV **13000**
Credit: 1

This course is designed to help the student read, comprehend, and analyze British literature from its beginnings to the modern era. Students will analyze literary forms including short stories, poetry, drama, novels, and non-fiction. Composition skills are developed through writing. Students will communicate in practical writing activities.

ESOL I & II* **59911.59912**
Credit: 1

ESOL I, II, III, OR IV may be substituted for English I, II, III, or IV as provided by Chapter 74, Subchapter B, of this title (relating to Graduation Requirements). All expectations apply to ESOL I-IV students; however, it is imperative to recognize critical processes and features of second language acquisition and to provide appropriate instruction to enable students to meet these standards.

AP ENGLISH IV: LITERATURE AND COMPOSITION **13400**
Credit: 1

An AP English Literature and Composition course engages students in the careful reading and critical analysis of imaginative literature. Through the close reading of selected texts, students deepen their understanding of the ways writers use language to provide both meaning and pleasure for their readers. As they read, students consider a work's structure, style and themes, as well as such smaller-scale elements as the use of figurative language, imagery, symbolism, and tone. This class may be assigned work to be completed during the summer break.

COLLEGE ENGLISH PREP **13402**
Grade 12 **Credit: 1**

This course is designed for 12th grade students who have not achieved the college readiness standard on the EOC exams, college entrance exams, or the Texas State Initiative (TSI). Successful completion of this course will allow the student to register for college level, credit-bearing courses at Brazosport College within one academic year of course completion. The TSI will be administered to students at the end of this course at no cost to the student.

AP CAPSTONE IN SEMINAR **134APS**
Prerequisite: English IV **Credit: 1**

AP Seminar is a foundational course that engages students in cross-curricular conversations that explore the complexities of academic and real-world topics and issues by analyzing divergent perspectives. Using an inquiry framework, students practice reading and analyzing articles, research studies, and foundational literary and philosophical texts; listening to and viewing speeches, broadcasts, and personal accounts; and experiencing artistic works and performances. Students learn to synthesize information from multiple sources, develop their own perspectives in research based written essays, and design and deliver oral and visual presentations, both individually and as part of a team. Ultimately, the course aims to equip students with the power to analyze and evaluate information with accuracy and precision in order to craft and communicate evidence-based arguments.

AP CAPSTONE IN RESEARCH **134APR**
Prerequisite: AP Capstone in Seminar **Credit: 1**

AP Research, the second course in the AP Capstone experience, allows students to deeply explore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Through this inquiry, they further the skills they acquired in the AP Seminar course by learning research methodology, employing ethical research practices, and accessing, analyzing, and synthesizing information. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic paper of 4,000-5,000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

BUSINESS ENGLISH **60681**
Prerequisite: English III **Credit: 1**

In Business English, students enhance communication and research skills by applying them to the business environment, in addition to exchanging information and producing properly formatted business documents using emerging technology.

Angleton Independent School District
Course Selection Guide 2020-2021

MATHEMATICS

ALGEBRA I* **25200**
Credit: 1

The purpose of this course is to provide a foundation for higher level mathematics courses. This course deals with variables, expressions, operations and their properties, simplifying expressions and solving equations and inequalities, polynomials and their operations, and factoring. Also included will be graphing of linear functions, solving systems of equations in two variables, radicals and their operations, graphing quadratic functions and solving quadratic equations. A strong component of this course will be the use of technology with the graphing calculator.

PRE-AP ALGEBRA I* **25100**
Credit: 1

The Pre-AP Algebra I course focuses deeply on mastery of linear relationships. Linear functions and linear equations are the basic building blocks of many advanced topics in mathematics. This instructional focus fuels students' growth and confidence in mathematics.

GEOMETRY **26600**
Credit: 1

This course is a general survey of important elements of plane geometric figures and solid geometric figures. Algebraic skills are reviewed and strengthened as algebraic methods are applied to geometric problems. In addition to the basic development of geometry, the course includes the study of perimeter, area, volume, and coordinate geometry.

PRE-AP GEOMETRY **27100**
Credit: 1

This course is designed for the advanced student who wants to prepare for a college education, particularly in higher mathematics or higher science. This course has a balance of theory and application. Formal proofs, indirect proofs and lessons in deductive reasoning and inductive reasoning are included in the course. The course is useful in the improvement of complex algebraic computational skills and for developing critical-thinking abilities necessary for calculus and other higher mathematics courses. Students who did not complete Algebra I with an 85 or better may experience difficulty.

MATH MODELS **26800**
Credit: 1

This mathematics course provides a path for students to succeed in Algebra II and prepares them for various post-secondary choices. Students learn to apply mathematics through experiences in personal finance, science, engineering, fine arts, and social sciences. Students use algebraic, graphical, and geometric reasoning to recognize patterns and structure, model information, solve problems, and communicate solutions.

ALGEBRA II **25600**
Credit: 1

Designed to prepare students for higher level math through study of equations, inequalities, and functions. Both algebraic and graphic methods are used in problem solving. Some key topics include linear equations and inequalities, matrices, quadratic functions, exponential and logarithmic functions, rational expressions and rational functions. A graphing calculator is highly recommended for this course. (TI-83 + or TI-84.)

PRE-ALGEBRA II **25700**
Credit: 1

This course covers all topics in Algebra II while providing an in-depth study of each area. The scope of material per unit is accelerated while higher levels of learning are achieved. Students who did not complete Algebra I with an 85 or better may experience difficulty.

PRE-CALCULUS **25810**
Credit: 1

Pre-Calculus is the preparation for calculus. The course is designed to strengthen and enhance conceptual understanding and mathematical reasoning used when modeling and solving mathematical and real-world problems. The study of Pre-Calculus deepens students' mathematical understanding and fluency with algebra and trigonometry and extends their ability to make connections and apply concepts and procedures at higher levels. Students investigate and explore mathematical ideas, develop multiple strategies for analyzing complex situations, and use technology to build understanding, make connections between representations, and provide support in solving problems.

PRE AP PRE-CALCULUS **25900**
Recommended Prerequisite: Geometry and Algebra II **Credit: 1**

Pre-AP Pre-Calculus focuses on thinking skills, technology pitfalls, reliance on technology and preparation of students for AP Calculus and the AP Calculus examination. Students who did not complete Algebra II with an 85 or better may experience difficulty.

AP CALCULUS **26200**
Prerequisite: Pre-AP Calculus **Credit: 1**

This course is equivalent to the first 60 percent of calculus at a college or university. Students can achieve advanced placement or establish a good background for repeating the course with high achievement at the college level. This course is useful to students who are interested in engineering, the physical sciences, business, economics and the life sciences. This course follows the College Board AP Calculus AB curriculum. This course will prepare students to take the AP examination during the spring semester; students who receive a score of "3" or better may receive college credit for this course.

STATISTICS AND BUSINESS DECISIONS **26700**
Credit: 1

In this course, students will build on the knowledge and skills for mathematics in Kindergarten-Grade 8 and Algebra I. Students will broaden their knowledge of variability and statistical processes. Students will study sampling and experimentation, categorical and quantitative data, probability and random variables, inference, and bivariate data. Students will connect data and statistical processes to real-world situations. In addition, students will extend their knowledge of data analysis.

AP STATISTICS **27000**
Prerequisite: Algebra II **Credit: 1**

Students enrolled in this course are expected to take the College Board AP examination. Students will be introduced to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. Students will observe patterns in data and departures from patterns. Students will plan studies, deciding what and how to measure. Probability will be studied and models produced using probability theory and simulation. These models will be confirmed with statistical inference. Individual colleges and universities determine credit on AP exam scores. This course presents a more advanced curriculum and a weighted grade will be applied to the semester average.

COLLEGE PREP MATH **27110**
Grade 12 **Credit: 1**

This course is designed for 12th grade students who have not earned a college readiness standard on the EOC exams, college entrance exams, or the Texas State Initiative (TSI). Successful completion of this course will allow the student to register for college level, credit-bearing courses at Brazosport College within one academic year of course completion. The TSI will be administered to students at the end of this course at no cost to the student.

ADVANCED QUANTITATIVE REASONING **25402**
Prerequisite: Algebra II **Credit: 1**

In this course, students will develop and apply skills necessary for college, careers, and life. Course content consists primarily of applications of high school mathematics concepts to prepare students to become well-educated and highly informed 21st century citizens. Students will develop and apply reasoning, planning, and communication to make decisions and solve problems in applied situations involving numerical reasoning, probability, statistical analysis, finance, mathematical selection, and modeling with algebra, geometry, trigonometry, and discrete mathematics. At the end of this course, students will transition into dual Statistics or dual Quantitative Reasoning.

FINANCIAL MATHEMATICS **60825**
Grades: 10-12 **Credit: 1**
Prerequisite: Algebra I

Financial Mathematics is a course about personal money management. Students will apply critical-thinking skills to analyze personal financial decisions based on current and projected economic factors. Financial Mathematics will integrate career and postsecondary education planning into financial decision making.

Angleton Independent School District
Course Selection Guide 2020-2021

SCIENCE

BIOLOGY I* **23300**
Credit: 1

This course is a laboratory-based course designed to teach the scientific method of problem solving while studying various topics including structures and functions of organisms, taxonomy, metabolism and energy transfer, ecosystems and the environment. Students will be prepared for those portions of the TAKS test covering biology topics. If the student plans to take AP Biology, Pre-AP Biology is recommended.

PRE-AP BIOLOGY* **23500**
Credit: 1

Pre-AP Biology focuses deeply on the concepts and skills that have maximum value for college and career. This course concentrates on the core areas of ecological systems, cellular systems, evolution, and genetics. Rather than understanding content topics in isolation, students will make meaningful connections between the structures, processes, and interactions that exist across biological systems—from cells to ecological communities.

INTEGRATED PHYSICS AND CHEMISTRY **22809**
Credit: 1

This course is a laboratory-based course designed to teach the scientific method of problem solving while studying chemistry and physics concepts. Motion, waves, energy transformation, properties of matter, changes in matter, and solution chemistry will be covered. Students who have already passed Chemistry or Physics may not take this course.

CHEMISTRY **24200**
Credit: 1

This course is a laboratory–based course that involves the study of matter and energy. This course provides knowledge of fundamental principles and applications of chemistry for everyday life.

PRE-AP CHEMISTRY **24300**
Credit: 1

This is a laboratory-based course designed for students interested in pursuing additional science studies in high school and college. Chemical theory, problem solving, and critical thinking are emphasized. Pre-AP chemistry will prepare students for college chemistry. This course is recommended if the student plans to pursue a degree in medical, science, and engineering fields.

PHYSICS **23700**
Credit: 1

This course is designed to give students insight into the physical nature of matter and energy. Students will conduct field and laboratory investigations using scientific methods, critical thinking and problem solving skills. Topics include mechanics, Newton's laws of motion, changes within physical systems and conservation of energy and momentum, wave motion, basic electricity, and magnetism. This course provides students with a conceptual framework and factual knowledge, as well as analytical and scientific skills.

PRE-AP PHYSICS **23800**
Credit: 1

This course is designed to help students to develop mathematical abilities as they relate to the physical world. This is an essential course for students intending to major in technical sciences or engineering. It covers selected topics in mechanics such as vector forces, Newton's laws of motion, gravitational forces and torque, as well as introductory topics in heat, light, sound and electricity. Laboratory experience is provided in each of these areas. This course must have certain number of students to be offered.

ANATOMY AND PHYSIOLOGY **60990**
Credit: 1

This course is an advanced level study of human anatomy and physiology. Biological and chemical principles will be applied in a study of body systems and their functions. This class is designed to prepare students for Anatomy at the college level. Students interested in a health care career should take this course.

AP CHEMISTRY **24400**
Credit: 1

This course is an advanced course and lab designed for students who are interested in majoring in science or engineering in college. This course is designed to provide students with detailed understanding of chemical principles. This course prepares students for the AP Chemistry examination during the spring semester; students who receive a score of "3" or better may receive college credit for this course. This course must have certain number of students to be offered.

AP BIOLOGY **23600**
Credit: 1

This course is designed for the high-ability student planning to major in science in college. It places Biology in its correct perspective as the logical end of the science curriculum and allows it to be taught from the chemical approach. The course prepares students for the AP Biology examination during the spring semester; students who receive a score of "3" or better may receive college credit for this course. This course must have certain number of students to be offered.

AP PHYSICS **23900**
Prerequisite: Pre-AP Physics **Credit: 1**

This course is an advanced course and lab designed for students who are interested in majoring in science or engineering in college. This course covers topics in mechanics, electricity, magnetism, fluid mechanics, and thermal physics, waves and optics, and atomic and nuclear physics. Students enrolled in this course are expected to take the College Board AP examination in the spring. This course must have certain number of students to be offered.

AQUATIC SCIENCE **24800**
Prerequisite: 3 science credits **Credit: 1**

This course is designed for the high-ability student planning to major in science in college. It places Biology in its correct perspective as the logical end of the science curriculum and allows it to be taught from the chemical approach. The course prepares students for the AP Biology examination during the spring semester; students who receive a score of "3" or better may receive college credit for this course. This course must have certain number of students to be offered.

ANIMAL SCIENCE **60050**
Prerequisite: 3 science credits **Credit: 1**

This course examines the interrelatedness of human, science, 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 experience.

FORENSIC SCIENCE **61360**
Prerequisite: Biology and Chemistry **Credit: 1**
Recommended Prerequisite: Physics

Forensic Science is a course that uses 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.

AP ENVIRONMENTAL SCIENCE **24000**
Grades: 10-12 **Credit: 1**
Prerequisite: Algebra I, Biology and 1 additional laboratory science

The goal of the AP Environmental Science course is to provide students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world, to identify and analyze environmental problems both natural and human-made, to evaluate the relative risks associated with these problems, and to examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary; it embraces a wide variety of topics from different areas of study. Yet there are several major unifying constructs, or themes, that cut across the many topics included in the study of environmental science. The following themes provide a foundation for the structure of the AP Environmental Science course.

ENGINEERING DESIGN AND PROBLEM SOLVING **22003**
Prerequisite: Geometry and Algebra II **Credit: 1**
May be taken concurrently with Chemistry or Physics

Engineering Design and Problem Solving reinforces and integrates skills learned in previous mathematics and science courses. This course emphasizes solving problems, moving from well-defined toward more open-ended, with real-world application. Students will apply critical-thinking skills to justify a solution from multiple design options. Additionally, the course promotes interest in and an understanding of career opportunities in engineering. This course satisfies a fourth science credit.

Angleton Independent School District
Course Selection Guide 2020-2021

SOCIAL STUDIES

WORLD GEOGRAPHY **20700**
Credit: 1

This course is a study of the Western Hemisphere, Europe, Africa, Asia and the South Pacific. Emphasis is placed on the economic, political, cultural and geographic factors affecting these areas of the world.

PRE-AP WORLD GEOGRAPHY **20900**
Credit: 1

This course emphasizes the comparative study of various geographic areas including the Western Hemisphere, Europe, Africa, Asia and the South Pacific. Economic, political, cultural, historical and geographic factors are integrated to give a composite view of each area. The Pre-AP World Geography student will be required to compare and contrast, evaluate, analyze and synthesize information related to regional and international issues. Frequent research assignments will offer opportunities for intensive study and reflection. In addition, the student will be encouraged to develop his own views concerning specific issues of regional and international concern.

AP HUMAN GEOGRAPHY **20904**
Credit: 1

The AP Human Geography course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students learn to employ spatial concepts and landscape analysis to examine human socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications.

WORLD HISTORY **20000**
Credit: 1

This course is a study of man and his way of life throughout history. Students learn how individual rights form government policy and how the decline and fall of great civilizations affect present-day nations. The global impact of war is emphasized and peace efforts are evaluated. The role of science, art, religion, education and industry is examined. Geographical concepts are integrated into the course of study. This class is designed to challenge students to use higher level thinking skills and provide opportunities to assess past and present historical issues.

AP WORLD HISTORY **20200**
Credit: 1

AP World History is designed for the high-achieving student who is capable of independent research and learning designed to foster critical thinking skills. All major topics are explored in depth, and students are expected to develop the analytical skills needed to evaluate complex world situations. This course will prepare students to take the AP World History examination during the spring semester; students who receive a score of "3" or better may receive college credit for this course. This class may be assigned work to be completed during the summer break.

U.S. HISTORY* **20300**
Credit: 1

U. S. History is a study of the nation's past that gives students an understanding of the democratic ideals which have helped to form the American government and way of living from post-Civil War to the present.

AP U.S. HISTORY* **20500**
Credit: 1

In addition to the requirements of U. S. History, students are required to utilize the skill of analysis, critical thinking, and synthesis in order to apply historical information to past and present. Various projects will be assigned during the course of the year to expand these skills. This course will prepare students to take the AP U.S. History examination during the spring semester; students who receive a score of "3" or better may receive college credit for this course. This class may be assigned work to be completed during the summer break.

U.S. GOVERNMENT **21000**
Credit: ½

This course examines federal, state and local governments in reference to governmental philosophy, structure and operation. Emphasis is placed on constitutional principles, democratic processes and the role of the individual. In addition, the role of government in the social, cultural, and economic life of its people is explained. This course also covers the state required curriculum that focuses on instructing students how to appropriately interact with peace officers.

AP U.S. GOVERNMENT **212AP**
Credit: ½

Students enrolled in AP U. S. Government are expected to apply facts and concepts when dealing with classroom resource materials and group and independent activities. Creative, productive thinking permeates the class discussions and also appears in individually developed written assignments. In order to promote higher level thinking skills, students are provided opportunities to explore and assess current and historical issues pertaining to the American political system. This course will prepare students to take the AP U.S. Government examination during the spring semester; students who receive a score of "3"or better may receive college credit for this course. This class may be assigned work to be completed during the summer break.

ECONOMICS **21900**
Credit: ½

This course is a study of the basic principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world, the monetary and fiscal policy in the U.S., the study of businesses in a free enterprise system, and role of the Federal Reserve System. The course also incorporates instruction in personal financial literacy. Students apply critical-thinking skills using economic concepts to evaluate the costs and benefits of economic issues.

AP ECONOMICS **222AP**
Credit: ½

This course is designed to help students develop critical-thinking skills through the understanding, application, and analysis of fundamental economic concepts and economic systems, with emphasis placed on free enterprise system. Students will be expected to apply quantitative and mathematical skills to economics. Also, they will be expected to apply economic logic to a wide variety of real-world and hypothetical situations. This course prepares students for the AP Macroeconomics Exam during the spring semester; students who receive a score of "3" or better may receive college credit for this course. This class may be assigned work to be completed during the summer break.

PSYCHOLOGY **21400**
Credit: ½

This course is the challenging and fascinating study of human behavior. It explains what people do, how they think and why they act as they do. A variety of experiments, projects and demonstrations are included in the study.

AP PSYCHOLOGY **21402**
Credit: ½

The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. They also learn about the ethics and methods psychologists use in their science and practice.

SOCIOLOGY **21500**
Credit: ½

Sociology is the study of humans and their life in-groups. It is an attempt to explain how people behave in groups and how group interaction shapes behavior. The student gains awareness of group values, customs and attitudes, and of the power structure that allows attitudes to gain acceptance.

Angleton Independent School District
Course Selection Guide 2020-2021

SOCIAL STUDIES – SPECIAL TOPICS

BIBLE HISTORY & LITERATURE I **90100**
FALL SEMESTER ONLY **Credit: ½**

This course introduces the Bible, especially the Old Testament, its origins, history, Middle Eastern geography and culture, with a focus on the Torah and Judaism and their impact on world history.

BIBLE HISTORY & LITERATURE II **90200**
SPRING SEMESTER ONLY **Credit: ½**

This course introduces the New Testament and the politics, history, and culture of that time. Course content will focus on the life of Jesus of Nazareth, origins of Christianity, and its impact on western culture.

Angleton Independent School District
Course Selection Guide 2020-2021

JOURNALISM

JOURNALISM I **63000**
Credit: 1

This course is an introductory course for students who want to learn a variety of skills used in journalism. Students learn about journalistic style writing and editing, interviewing, design, photography, advertising and marketing, and how to prepare material for publications as well influences of the media on the world. Students learn skills necessary for current trends of media convergence, and are prepared for newspaper and yearbook production.

DESKTOP PUBLISHING: NEWSPAPER PRODUCTION I **63001**
Credit: 1

Students enrolled in newspaper production have staff positions on the school newspaper and are responsible for planning and producing a specific product that is distributed in the school and community. Proficiency in the following areas of newspaper work is stressed: reporting, writing, photography, advertising, desktop publishing and circulation. Students on staff have major responsibilities and some hold key leadership positions.

NEWSPAPER PRODUCTION II **63002**
Credit: 1

Students enrolled in newspaper production have staff positions on the school newspaper and are responsible for planning and producing a specific product that is distributed in the school and community. Proficiency in the following areas of newspaper work is stressed: reporting, writing, photography, advertising, desktop publishing and circulation. Students in second and third year courses have major responsibilities and key leadership positions.

NEWSPAPER PRODUCTION III **63003**
Credit: 1

Students enrolled in newspaper production have staff positions on the school newspaper and are responsible for planning and producing a specific product that is distributed in the school and community. Proficiency in the following areas of newspaper work is stressed: reporting, writing, photography, advertising, desktop publishing and circulation. Students in second and third year courses have major responsibilities and key leadership positions.

DESKTOP PUBLISHING: YEARBOOK PRODUCTION I **63004**
Credit: 1

This course centers on production of the school yearbook. Staff members publish a photographic history of the school year, doing all the planning, photography, writing, design and fund-raising for the book. It includes a detailed study and application of the techniques of magazine production, with a strong emphasis on the use of desktop publishing. Students in second and third year courses have major responsibilities and key leadership positions.

YEARBOOK PRODUCTION II **63005**
Credit: 1

This course centers on production of the school yearbook. Staff members publish a photographic history of the school year, doing all the planning, photography, writing, design and fund-raising for the book. It includes a detailed study and application of the techniques of magazine production, with a strong emphasis on the use of desktop publishing. Students in second and third year courses have major responsibilities and key leadership positions.

YEARBOOK PRODUCTION III **63006**
Credit: 1

This course centers on production of the school yearbook. Staff members publish a photographic history of the school year, doing all the planning, photography, writing, design and fund-raising for the book. It includes a detailed study and application of the techniques of magazine production, with a strong emphasis on the use of desktop publishing. Students in second and third year courses have major responsibilities and key leadership positions.

EDITING / JOURNALISM **63007**
Credit: 1

This course is designed for students whose level of achievement in journalism allows them to pursue work individually or in small groups. Emphasis is on research, production of original work, or extended development of specific area.

Angleton Independent School District
Course Selection Guide 2020-2021

SPEECH COMMUNICATION

PROFESSIONAL COMMUNICATIONS **14500**
Credit: ½

This course functions as a general survey of the communication field. It covers the general skills necessary to become comfortable speaking in front of an audience in addition to those skills necessary in the business world. Skills include listening, delivery, vocalization, resumes, interviewing, and group dynamics.

DEBATE I **35200**
Credit: 1

This course offers students an opportunity to learn basic strategies and terminology for various types of debate. This class is writing intensive and students will be expected to speak in front of class and debate. The purpose of this course is to enable the student to be confident in a variety of speaking situations.

ADVANCED ORAL INTERPRETATION I – III **34600, 34700, 34800**
Prerequisite: Theatre I **Credit: 1**

These courses involve selecting, cutting, and preparing tournament pieces. Students will be required to attend after school rehearsals and weekend tournaments.

ADVANCED DEBATE II – III **35300, 35400**
Prerequisite: Debate I and Audition **Credit: 1**

These courses offer students the opportunity to enhance their argumentation skills including analytical reasoning, logical thinking, research, refutation and rebuttal. Students will prepare cases and participate in contest. Must attend after school practices and weekend competitions.

Angleton Independent School District
Course Selection Guide 2020-2021

FINE ARTS - ART

ART I **30500**
Credit: 1

This course enables students to gain a board understanding of art concepts and techniques. Students will be introduced to a variety of media and subjects. Students will explore art history, vocabulary, two and three dimensional art, and evaluations, with a strong emphasis on the elements and principles of art and design. Participation in several art competitions is recommended and encouraged of students.

ART II **30700**
Prerequisite: Art I **Credit: 1**

This course is an extension to Art I with a more in depth exploration of various mediums. Techniques and use of various mediums will be demonstrated and explored. An understanding of major art movements will be introduced. The student will be required to maintain a portfolio and sketchbook. Participation in contest is strongly recommended.

ART III **31700**
Credit: 1

This course is for the advanced art student with a true desire to explore art techniques to a deeper level. Various mediums will be explored at a more advanced level. The student will be required to maintain a sketchbook and portfolio. Participation in art competitions is strongly recommended.

AP ART III **32400**
Credit: 1

This course is designed for the student that desires to complete an AP portfolio for college credit. These students will be required to perform at a college level. A rigorous schedule and calendar will be designed for each individual student. Students in this course must have an advanced understanding of the elements and principles of art and design. A sketchbook is required for this course. Participation in art competitions is strongly recommended.

ART IV **31900**
Credit: 1

This course is for the serious art student that wishes to explore in-depth individual interests based on his performance in Art I-III. A sketchbook is required for this class. Participation in art competitions is strongly recommended.

AP ART IV **31800**
Credit: 1

AP Art IV follows the recommendations of the College Board Advanced Placement Program and is designed to enable students to earn college credit by producing a satisfactory portfolio for AP examination. Various projects will be assigned during the course of the year to expand artistic skills. Participation in art competitions is strongly recommended.

Angleton Independent School District
Course Selection Guide 2020-2021

FINE ARTS – THEATRE ARTS

THEATRE ARTS I **34000**
Credit: 1

This course provides an overall view of the theatre arts. Students learn preparation techniques for the body and voice. Students will also learn acting styles along with an understanding of theatre history and technical theatre including design and construction of sets, costumes, lights, and sound. Students must be willing to perform in front of the class. This class fulfills the fine arts graduation requirement.

ADVANCED THEATRE ARTS **34401**
Prerequisite: Theatre Arts I and Audition **Credit: 1**

This course involves advanced collaborative work on the production aspects of theatre. Students work on the varied projects necessary to create a theatrical production. Students will also be required to participate in after school rehearsals.

TECHNICAL THEATRE I – III **34810, 34910, 35010**
Prerequisite: Theatre Arts I **Credit: 1**

Students will do an intense study and hands-on work of design and construction of sets, costumes, lights and sound. Students will be expected to attend after school work days. Students will also be graded on meeting production deadlines.

Skills: oration (informative and persuasive), group discussion, extemporaneous speaking, and public speaking skills.

ADVANCED ORAL INTERPRETATION I – III **34600, 34700, 34800**
Prerequisite: Theatre Arts I **Credit: 1**

These courses involve selecting, cutting, and preparing tournament pieces. Students will be required to attend after school rehearsals and weekend tournaments for speech and drama. This course has an end goal of qualifying for state and nationals in speech and debate.

Angleton Independent School District
Course Selection Guide 2020-2021

FINE ARTS – MUSIC

WIND ENSEMBLE I – IV **33401, 33402, 33403, 33404**
Credit: 1

Prerequisite: Three years of successful participation in junior high/middle school band, prior successful participation in high school band, in addition to an audition

This course is the top instrumental group in the Angleton ISD. The Wind Ensemble participates in UIL and non-UIL events. This course requires participation in and includes music instruction for marching band, concert ensembles, Region Band auditions, and Solo and Ensemble Contest. This course requires summer camp, after-school rehearsals and performances, and travel both in and out of state.

SYMPHONIC BAND I – IV **33010, 33020, 33030, 33040**
Credit: 1

Prerequisite: Three years of successful participation in junior high/middle school band, prior successful participation in high school band, in addition to an audition

This course requires participation in and includes music instruction for marching band, concert ensembles, Region Band auditions, and Solo and Ensemble Contest. This course requires summer camp, after-school rehearsals and performances, and travel both in and out of state.

CONCERT BAND I – IV **33600, 33700, 33800, 33900**
Credit: 1

Prerequisite: Three years of successful participation in junior high/middle school band, prior successful participation in high school band, in addition to an audition

This course develops instrumental music training associated with marching and concert activities. This course requires participation in and includes music instruction for marching band, concert ensembles, Region Band auditions, and Solo and Ensemble Contest. This course requires summer camp, after-school rehearsals and performances, and travel both in and out of state.

PERCUSSION BAND I – IV **33920, 33930, 33940, 33950**
Credit: 1

Prerequisite: Three years of successful participation in junior high/middle school band, prior successful participation in high school band, in addition to an audition

This course develops instrumental music training associated with marching and concert activities. This course requires participation in and includes music instruction for marching band, concert ensembles, Region Band auditions, and Solo and Ensemble Contest. This course requires summer camp, after-school rehearsals and performances, and travel both in and out of state.

COLOR GUARD I – IV **32900-1, 32902-2, 32903-3, 32904-4**
Credit: 1

Prerequisite: Audition clinic, attendance, and an audition. Prior dance experience is preferred, but not required.

This course is designed to develop and explore dance, body movement, and equipment use in performance. This course requires participation in and instruction for marching band and indoor winter guard. This course requires summer camp, rehearsals and performances, and travel both in and out of state. Participants must be able to handle the physical demands of dance and rehearsals.

AP MUSIC THEORY **33951**
Credit: 1

Through the course, students develop the ability to recognize, understand, and describe basic materials and processes of tonal music that are heard or presented in a score. Development of aural (listening) skills is a primary objective. Performance is also part of the curriculum through the practice of sight-singing. Students learn basic concepts and terminology by listening to and performing a wide variety of music. Notational skills, speed, and fluency with basic materials are emphasized.

CHORALE **41810**
Prerequisite: Audition and/or Director approval **Credit: 1**

Chorale is Varsity Choir and the most advanced vocal ensemble on campus. This group performs at all concerts, UIL and TMEA competitions, festivals, and goes on big trips. In Chorale, we explore choral music from a wide variety of cultures and times periods though study and performance. The core curriculum emphasizes advanced study of vocal technique, sight-reading, music theory, and music history. Private voice lessons and summer camp attendance for Chorale students are highly recommended but not required. Membership is granted only by permission from the director.

PRELUDE **41200**
Credit: 1

Prelude is Choir for all Freshmen singers. This group performs at concerts, some UIL and TMEA competitions, festivals, and goes on big trips. In Prelude, we begin to explore choral music from a variety of cultures and times periods though study and performance. The core curriculum emphasizes basic study of vocal technique, sight-reading, music theory, and music history. Private voice lessons for Prelude students is highly recommended but not required.

WILDCAT SINGERS **42410**
Credit: 1

Wildcat Singers is Choir for beginner and developing upperclassmen singers. This group performs at all concerts, some UIL and TMEA competitions, festivals, and goes on big trips. In Wildcat Singers, we explore choral music from a variety of cultures and times periods though study and performance within the capabilities of the group. The core curriculum emphasizes basic study of vocal technique and sight-reading.

THE CRESCENDOES **42200**
Credit: 1

Crescendoes is Show Choir and our community Musical Ambassador group. This group travels during the year to perform for various local groups and schools. The Crescendos hosts our annual Tea Party, Broadway Show, and other performances and events. Dancing, stage presence, and solo singing are major focuses in this ensemble. Membership is granted only by permission from the director and students must also be enrolled in another Choir class.

BEGINNER PIANO FOR MUSIC CONCENTRATION **42300**
Credit: 1

Beginner Piano for Music Concentration is designed for students who wish to develop basic piano playing skills. Time in class will be spent working on piano technique and repertoire as well as study in music theory, aural skills, and music history. Students must also be enrolled in a Choir or Band class.

ADVANCED PIANO FOR MUSIC CONCENTRATION **42400**
Credit: 1

Advanced Piano for Music Concentration is designed for students who wish to expand their existing piano playing skills. Time in class will be spent working on piano technique and repertoire as well as study in music theory, aural skills, and music history. Students must also be enrolled in a Choir or Band class. Students must have already taken Beginner Piano for Music Concentration or have been granted permission by the director.

Angleton Independent School District
Course Selection Guide 2020-2021

LANGUAGES OTHER THAN ENGLISH

SPANISH FOR SPANISH SPEAKERS I & II **58400, 58401**
Credits: 2

Prerequisite: Must be able to speak and understand Spanish (screening will take place during the Spring semester)

This course includes all aspects of the language with an emphasis on grammar and writing Spanish. Students will improve their Spanish grammar and increase their reading skills. **Students who successfully complete the course will receive two credits.**

SPANISH I **57500**
Credit: 1

This course emphasizes communication. It is designed to provide students with a basic understanding of the Spanish language and also to acquaint them with the culture of the Hispanic world. At the end of Spanish I, the student should have a reading vocabulary and be able to comprehend classroom speech. In addition, a basic knowledge of the geography, lifestyle and culture of the Spanish-speaking world is acquired.

SPANISH II **57600**
Credit: 1

Spanish II is a course designed to introduce students to the remainder of the basic grammatical structures. They also become aware of the subtleties in more complex structures. Additionally, they learn in more detail the history of the Spanish-speaking world. Conversation and composition skills are improved and the student will be able to communicate in a classroom setting about everyday activities.

PRE-AP SPANISH III **57800**
Credit: 1

In Pre-AP Spanish III, students are expected to apply factual recall of vocabulary, grammar and cultural information to demonstrate oral, written, and reading proficiency. Students also acquire cultural insight and develop independent learning and thinking skills through teacher-guided discussions, selected readings, and individual research. Pre-AP Spanish III is designed to be a college preparatory class.

AP SPANISH IV **59900**
Credit: 1

Prerequisite: Successful completion of Spanish I and approval from authorized representative

The ability to function at a high level of independence in various learning situations is required for successful completion of this course. Mastery of the more complex research skills and the development of a higher level of self-evaluation are basic learning techniques that are emphasized throughout the course. This course prepares students to take the AP Spanish examination during the spring semester; students who receive a score of “3” or better may receive college credit for this course.

SPECIAL TOPICS IN LANGUAGE AND CULTURE **59930**
Credit: 1

Prerequisite: Successful completion of Spanish I and approval from authorized representative

Students demonstrate novice level communication skills acquired in a LOTE level I course, develop a greater understanding of other cultures, make connections to other disciplines, draw comparisons between languages and cultures, and effectively engage in global communities. Students enhance their personal and public lives, and meet the career demands of the 21st century, by gaining insight into other world languages and cultures.

AMERICAN SIGN LANGUAGE I **59505**
AMERICAN SIGN LANGUAGE II **59506**
Credit: 1

American Sign Language is a fully developed human language, one of the hundreds of naturally occurring signed languages of the world. These courses provide students with an understanding of another people's language and customs, as well as a deeper appreciation of their own language. In Levels I and II, students develop the ability to perform the tasks of the novice language learner. The student will learn to understand short-signed phrases when attending and respond expressively with learned material. The student also will produce learned signs, phrases, and sentences, and will detect main ideas in familiar material that is signed. In recognizing the importance of communication and how it relates to the American Deaf culture, the student will learn to transcribe American Sign Language into English gloss.

Angleton Independent School District
Course Selection Guide 2020-2021

HEALTH AND PHYSICAL EDUCATION

HEALTH **32500**
Credit: ½

This course provides health instruction information needed to reach decisions and take actions designed to promote and protect mental and physical health.

FOUNDATIONS OF PERSONAL FITNESS **32700**
Credit: ½

The knowledge and skills taught in this course include the process of becoming fit as well as achieving some degree of fitness within the class.

INDIVIDUAL AND TEAM SPORTS **43801**
Credit: ½ - 1

This PE course will allow students to make a sport selection every three weeks. Students will choose between two different sports selections and commit to that recreational sport for three weeks.

ARISTOCATS DRILL TEAM **32800**
Credit: 1

This course has basic strands, perception, creative expression/performance, historical and cultural heritage and critical evaluation which provide broad unifying structures for organizing knowledge and skills students are expected to acquire, by mastering movement principles and skills, students develop self-discipline and healthy bodies that move expressively, efficiently and safely through space and time with controlled energy. **Only students who have auditioned and been selected for the drill team will be allowed to enroll in this course.**

DANCE I **32801**
Credit: 1

Welcome to Intro to Dance! This course is designed to provide students with an introduction to the fundamentals of dance. This will be achieved through the research and study of different dance styles, dance terminology, history of dance; in addition, students will learn through movement and choreography, manipulation and performance through daily physical participation. Students in Intro to Dance may receive a Fine Arts, PE, or elective credit or this course.

DANCE II **32802**
Credit: 1

Welcome to Drill Prep! This course is designed to provide students with a higher level of understanding dance fundamentals. This class is for students who desire to audition for the Aristocats dance team, want to learn more advanced skills and/or prefer to learn at a faster pace. This will be achieved through the research, practice, and study of different dance styles, terminology, manipulation, learned and original choreography, and performance through written and physical participation. Students may receive Fine Arts, PE, or elective credit for this course. *To maintain the integrity of this course, students may be required to audition at the end of the fall semester to remain in the class. Students who do not meet the requirements to remain in the class may switch to another dance class or PE.*

OFFICER PERIOD (ADV. DANCE) **32803, 32804, 32805**
Must be Artistocat by audition only **Credit: 1**

This course is available to select dance students who have completed one or more years as a member of the Aristocats Dance/Drill Team, are current members in good standing, and have completed prerequisites including, but not limited to officer auditions and an interview process; must be selected as an officer by a panel of judges. Students will practice advanced dance styles and skills, in addition to practicing planning and organizational skills. Students may receive Fine Arts, PE, or elective credit for this course. *Director approval required for enrollment.*

ADVENTURE / OUTDOOR EDUCATION **43806**
Credit: 1

Students enrolled in adventure outdoor education are expected to develop competency in outdoor education activities that provide opportunities for enjoyment and challenge. Emphasis is placed upon student selection of activities that also promote a respect for the environment and that can be enjoyed for a lifetime.

AEROBIC ACTIVITIES **43807**
Credit: 1

Students in aerobic activities are exposed to a variety of activities that promote health-related fitness. A major expectation of this course is for the student to design a personal fitness program that uses aerobic activities as a foundation.

JUNIOR RESERVE OFFICER TRAINING (JROTC) **43000**
Credit: 1

In this Army leadership training course, students will collaborate, reflect, develop critical thinking skills, and integrate content with other disciplines. JROTC focuses on leadership, health and wellness, physical fitness, first-aid, geography, American history and government, communications, and emotional intelligence.

Angleton Independent School District
Course Selection Guide 2020-2021

ATHLETICS

Prerequisite: UIL Standards

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. See chart below:

Sport	Grade 9	Grade 10	Grade 11	Grade 12
Volleyball	49010	49020	49030	49040
Girls' basketball	51010	51020	51030	51040
Boys' basketball	53010	53020	53030	53040
Baseball	54510	54520	54530	54540
Softball	57310	57320	57330	57340
Girls' Cross Country	52511	52522	52533	52544
Boys' Cross Country	52510	52520	52530	52540
Diving	50400	50400	50400	50400
Swimming JR Varsity	50440	50440	50440	50440
Swimming Varsity	50410	50410	50410	50410
Football	52010	52020	52030	52040
Tennis	56110	56120	56130	56140
Girls' Soccer	50010	50020	50030	50040
Boys' Soccer	57210	57220	57230	57240
Girls' Track	50111	50122	50133	50144

<u>The following courses count as PE credit</u>:

PE
Individual and Team Sports
Drill Team
Dance I
Dance II
Officer Period
Cheerleading

Fall semester band
Athletics
Golf
Adventure / Outdoor Education
Aerobic Activities
JROTC

NONDISCRIMINATION IN CAREER AND TECHNOLOGY EDUCATION

It is the policy of Angleton Independent School District not to discriminate on the basis of race, color, national origin, sex or handicap in its Career and Technology programs, services or activities as required by Title VI of the Civil Rights Act of 1964, as amended, Title IX of the Education Amendments of 1972, and Section 504 of the Rehabilitation Act of 1973, as amended.

It is the policy of Angleton Independent School District not to discriminate on the basis of race, color, national origin, sex, handicap or age in its employment practices as required by Title VI, of the Civil Rights Act of 1964, as amended, Title IX of the Education Amendments of 1972, the Age Discrimination Act of 1975, as amended and Section 504 of the Rehabilitation Act of 1973, as amended.

Angleton Independent School District will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and career and technology programs.

For information about your rights or grievance procedures, contact the Title IX coordinator, Mr. Phil Edwards and/or the Section 504 coordinator, Kalean Bowie, at 1900 North Downing Road, Angleton, Texas, (979-864-8000).

LA NO DISCRIMINACIÓN EN LA EDUCACIÓN DE CARRERA Y TECNOLOGÍA

Es la política del Distrito Independiente de Angleton no discriminar por motivos de raza, color, origen nacional, sexo o discapacidad en su programas de carreras y tecnología, servicios o actividades requeridos por el Título VI de la Ley de Derechos Civiles de 1964, enmendada, Título IX de las Enmiendas de Educación de 1972 y la sección 504 del Acta de Rehabilitación de 1973, según enmendada.

Es la política del Distrito Independiente de Angleton no discriminar por motivos de raza, color, origen nacional, sexo, discapacidad o edad, en sus prácticas de empleo como requeridos por el Título VI de la Ley de Derechos Civiles de 1964, enmendada, Título IX de las Enmiendas de Educación de 1972, la Ley de discriminación por edad de 1975, y enmendada y la sección 504 del Acta de Rehabilitación de 1973, según enmendada.

El Distrito Independiente de Angleton tomará las medidas necesarias para asegurar que la falta de conocimiento del idioma inglés no será una barrera para la admisión y participación en todos los centros educativos y programas profesionales y tecnológicos.

Para obtener información acerca de sus derechos o los procedimientos de queja, póngase en contacto con el Coordinador del Título IX, Mr. Phil Edwards y/o el coordinador de la sección 504, Kalean Bowie, en 1900 North Downing Road, Angleton, Texas, (979-864-8000).

If you need assistance, please contact

Angleton Junior High School: 864-8002
Angleton High School: 864-8001

Si necesita asistencia, por favor llame:

Angleton Junior High School: 864-8002
Angleton High School 864-8001

CAREER AND TECHNOLOGY

PRINCIPLES OF INFORMATION TECHNOLOGY **61240**
Credit: 1

Students develop computer literacy skills to adapt to emerging technologies used in the global marketplace. Students implement personal and interpersonal skills to prepare for a rapidly changing workplace environment. Students enhance their reading, writing, computing, communication, and reasoning skills and apply them to the information technology environment.

PROFESSIONAL COMMUNICATIONS **14500**
Credit: ½

Professional Communications blends written, oral and graphic communication in a career-based environment. This course fulfills the speech requirement for graduation.

CAREER PREPARATION I **61872**
Credits: 2

Put your skills to work! This co-op experience allows students to work in paid employment and earn high school credits. Students must attend one class period on campus to learn about workplace relationships, appropriate work habits, and how to be a valuable employee.

CAREER PREPARATION II **61972**
Credits: 2

This co-op experience allows students to continue working in paid employment and earn high school credits. Students must attend one class period on campus to learn about workplace relationships, appropriate work habits, and how to be a valuable employee.

CAREER AND TECHNOLOGY – AGRICULTURE, FOOD, AND NATURAL RESOURCES

PRINCIPLES OF AGRICULTURE **60001**
Credit: 1

This introductory course focuses on career opportunities in the field of agriculture and natural resources. This "Intro to Ag" course offers students the opportunity to learn more about FFA and participate in many leadership opportunities throughout high school. Students are not required to have animal projects, but are encouraged to become a member of FFA.

LIVESTOCK PRODUCTION **60010**
Credit: 1

This course prepares students for careers in the field of animal science such as veterinarian, farm production, and meat production. This course focuses specifically on animal species such as beef cattle, dairy cattle, swine, sheep, goats, and poultry.

EQUINE SCIENCE **60030**
Credit: 1

The care and management of horses has developed into Equine Science, a multi-million dollar industry. The course will help students learn selection, nutrition, reproduction health, judging, and management of horses. Animals studied include horses, donkeys, and mules. Students will be encouraged to join the FFA and become involved in the judging trips.

VETERINARY MEDICAL APPLICATIONS **60040**
Prerequisite: Livestock Production and Equine Science **Credit: 1**
$125.00 exam fee

This course teaches veterinary practices as they relate to both large and small animal species. Students participating in this course will be required to complete 500 hours of veterinary observation hours and pay a $125 fee for the vet tech certification exam. Students should strongly consider taking this course during 11th grade and participating in Practicum in Agriculture during 12th grade. This allows students their senior year to complete the large number of observation hours as part of their school day.

RANGE ECOLOGY AND MANAGEMENT **60140**
$65.00 certification fee **Credit: 1**

This course is designed to develop students' understanding of rangeland ecosystems and sustainable forage production.

Students in this course will be required to participate in the Pesticide Applicator's License program. Certification exams cost $65.00. Students in this course are encouraged to participate in the land and range team.

ANIMAL SCIENCE **60050**
Prerequisite: 3 science credits **Credit: 1**

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.

WILDLIFE, FISHERIES, AND ECOLOGY MANAGEMENT **60130**
$20.00 certification fee **Credit: 1**

This course examines the management of game and non-game wildlife species, fish, and aqua crops and their ecological needs as related to current agricultural practices. Students in this course will be required to participate in the Hunter and Boater Education Certification exams. Certification exams cost $10 each.

AGRICULTUREAL STRUCTURES, DESIGN AND FABRICATION / LAB **60200**
Credits: 2

Students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication.

HORTICULTURE SCIENCE **60180**
Credit: 1

This course will prepare students by developing their knowledge and skills regarding career opportunities, entry requirements and industry expectations related to horticulture and the workplace. This course is designed to develop an understanding of common horticulture management practices as they relate to food and ornamental plant productions.

SMALL ANIMAL MANAGEMENT **61555**
Credit: ½

In Small Animal Management, students will acquire knowledge and skills related to small animals and the small animal management industry. Small Animal Management may address topics related to small mammals such as dogs and cats, amphibians, reptiles, and birds. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings.

AGRICULTURE MECHANICS AND METAL TECHNOLOGIES **60201**
$15.00 certification fee **Credit: 1**

To be prepared for careers in agricultural power, structural, and technical systems, students need to attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings. This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete, and metal working techniques.

PRACTICUM IN AGRICULTURE **60230**

Credits: 2-3

Prerequisite: Completion of an agriculture career pathway outlined in the curriculum guide or approval of instructor. Students applying for practicum experience must have a pre-arranged internship in the field of agriculture.

This unpaid practicum is designed to give students supervised practical application of the knowledge and skills they have learned throughout the agriculture program. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, internships, assistantships, mentorships, or laboratories. Students will work in a supervised setting and be required to maintain regular communication with the instructor. This highly independent setting requires students to be responsible and capable of completing tasks independently.

FOOD, TECHNOLOGY, AND SAFETY **61075**

Credit: 1

Students will learn about food production, processing, and more about general food safety. This course is recommended for students from both the agriculture and hospitality pathways.

FLORAL DESIGN **60160**

$100 certification fee (optional) **Credit: 1**

This course is designed to develop students' ability to identify and demonstrate principles and techniques related to floral design, as well as develop an understanding of the management of floral businesses. Students will arrange flowers for many school activities and events. Students will earn one fine arts credit.

LANDSCAPE DESIGN AND TURF MANAGEMENT **60170**

Credit: ½

This course will further prepare students for careers in the horticultural industry. Students will acquire technical knowledge and skills related to horticulture and the workplace. This course is designed to develop an understanding of landscape design and turf grass management techniques and practices.

CAREER AND TECHNOLOGY – MANUFACTURING AND CONSRUCTION

PRINCIPLES OF MANUFACTURING AND CONSTRUCTION **61430**
$15.00 exam fee **Credit: 1**

This course provides an overview of the various fields of manufacturing, construction science, and construction technology. Students are eligible for participation in extracurricular activities. Additionally, students will be required to participate in the NCCER CORE Certification program. The exam fees are $15.

ARCHITECTURAL DESIGN I – DUAL CREDIT **6028D**
Prerequisite: Students must complete FAFSA and application **Credits: 2**
Tuition and fees

This course is offered as a credit course through Brazosport College. Students will focus on learning hand drafting techniques and then move into learning AutoCAD software in preparation for a career in drafting or architecture. Scholarships are available. Classes are held at Brazosport College. ***Students must register with the college counselor.***

INTERIOR DESIGN I **60250**
Credit: 1

This course is intended for students interested in careers in fashion and home design or architecture. Interior design skills will build upon principles learned in Principles of Arts, A/V or Principles of Fashion. Students will learn about textures, color, and appealing design features and expand their understanding of design through projects.

ARCHITECTURAL DESIGN II – DUAL CREDIT **6029D**
Prerequisite: Architectural Design I, Students must complete FAFSA and application **Credits: 3**
Tuition and fees

This course is the final sequence in the drafting and architectural program. This dual credit course will build upon the skills learned in Architectural Design utilizing the AutoCAD software. Classes are held at Brazosport College. ***Students must register with the college counselor.***

ELECTRICAL TECHNOLOGY I – DUAL CREDIT **6038D**
Prerequisite: Students must complete FAFSA and application **Credits: 2**
Tuition and fees

This course is offered as a dual credit course through Brazosport College. Students learn the basics of residential and commercial electricity in a hands-on setting. Transportation is provided to the college. Classes meet two to three days per week. Students do not attend classes on alternating days. Scholarships are available

ELECTRICAL TECHNOLOGY II – DUAL CREDIT **6039D**
Prerequisite: Electrical Technology I, Students must complete FAFSA and application Tuition and fees **Credits: 3**

This course is offered as a dual credit program through Brazosport College. Students learn advanced skills in the field of residential and commercial electricity in a hands-on lab setting. Transportation is provided to the college. Classes meet two to three days per week. Students do not attend classes on alternating days. Scholarships are available.

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) AND REFRIGERATION I – DUAL CREDIT **6040D**
Prerequisite: Students must complete FAFSA and application Tuition and fees **Credits: 2**

This course is offered as a dual credit program through Brazosport College. Students learn basic HVAC systems, installation, and maintenance in a hands-on lab setting. Transportation is provided to the college. Classes meet two to three days per week. Students do not attend on alternating days. Scholarships are available.

HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) AND REFRIGERATION II – DUAL CREDIT **6041D**
Prerequisite: HVAC I, Students must complete FAFSA and application Tuition and fees **Credits: 3**

This course is offered as a dual credit program through Brazosport College. Students learn advanced HVAC systems, installation, and maintenance in a hands-on lab setting. Transportation is provided to the college. Classes meet two to three days per week. Students do not attend classes on alternating days. Scholarships are available.

PRACTICUM IN CONSTRUCTION MANAGEMENT **60440**
Credits: 2-3
Prerequisite: Completion of an architecture and construction career pathway outlined in the curriculum guide or approval of instructor

Students applying for practicum experience must have a pre-arranged internship in the field of architecture or construction.

CAREER AND TECHNOLOGY – ARTS, AUDIO/VIDEO TECHNOLOGY & COMMUNICATIONS

ANIMATION I **60460**
Credits: 2

Students participating in this course will focus on developing technical knowledge and skills needed for all aspects of motion graphics. Students will learn how to change drawings and pictures into animated objects using the latest industry software. Students may earn industry recognized certification.

ANIMATION II & ANIMATION II LAB **60470L**
Prerequisite: Animation I **Credits: 2**

This course focuses on learning advanced technological skills pertaining to animation. Students will develop advanced skills used in the world of animation via a project-based instructional model. Projects will include animation, video production, character and story development, and sound editing. Students will create a portfolio of work.

AUDIO / VIDEO PRODUCTION I **60480**
Prerequisite: Principals of Arts, Audio / Video Technology **Credits: 2**

This course teaches the basics of Adobe products and the basics of audio/video production. Students participating in this course should have an interest in a career in audio/video technologies. Students will learn how to create commercials, operate video equipment, and edit film.

VIDEO GAME DESIGN I & II **61320, 61321**
Credit: 1 per course

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

AUDIO / VIDEO PRODUCTION II & AUDIO / VIDEO PRODUCTION II LAB **60490L**
Prerequisite: Audio / Video Production I **Credits: 2**

This course builds on the skills learned in Audio/Video Production. Students will create films and film segments utilized for campus and community growth. Students participating in this advanced course will be required to participate in after-hours projects such as athletic events and other school activities.

PRACTICUM IN AUDIO / VIDEO PRODUCTION **60500**
Grade: 12 **Credits: 2-3**
Prerequisite: Completion of the Audio / Video career pathway outlined in the curriculum guide or approval of instructor

Multiple on campus slots are available to students interested in competing this experience on campus.

This unpaid practicum is designed to give students supervised practical application of the knowledge and skills they have learned throughout the program. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, internships, assistantships, mentorships, or laboratories. Students will work in a supervised setting and be required to maintain regular communication with the instructor. This highly independent setting requires students to be responsible and capable of completing tasks independently.

PRINCIPLES OF ARTS, AUDIO / VIDEO TECHNOLOGY AND COMMUNICATIONS **60450**
Credit: 1

Principals of Arts, Audio/Video Technology and Communications is an exploratory course that allows students to learn about the careers within the arts, audio/video technology, and communication industry. Students will be allowed to work on projects in all of the areas of the specific industry.

GRAPHIC DESIGN AND ILLUSTRATION I **60510**
Prerequisite: Principles of Arts, Audio / Video Technology and Communications **Credit: 1**

This course will allow students to build upon a foundation of visual perspective and design and then incorporate those skills on a computer-based graphic design program. Students will develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design. Students will build on their knowledge of Photoshop and illustrator as well as learning in design.

GRAPHIC DESIGN AND ILLUSTRATION I LAB **60520L**
Prerequisite: Graphic Design and Illustration I **Credit: 1**
$100 certification fee (optional)

This advanced course builds on the skills learned in Graphic Design to produce commercial design documents. Students will create a portfolio and have the opportunity to earn industry certification.

COMMERCIAL PHOTOGRAPHY I **60540**
Prerequisite: Art or Principles of Arts, Fashion Marketing **Credit: 1**

This course is designed for creative students who want to explore digital photography. Topics covered include the history of photography, composition, and commercial photography. Adobe Photoshop, digital camera operation, lighting techniques, digital imaging, print preparation, page layout and design, and applying principles of design will be integral components of this course.

FASHION DESIGN II & FASHION DESIGN LAB II **60570, 60570L**
Prerequisite: Fashion Design I **Credits: 2**

This advanced course will explore more difficult patterns, fabrics, and construction techniques to master advanced sewing skills. Projects will be more individualized and allow students more freedom in design and textile choice. Students will be responsible for materials required for personal projects.

PRACTICUM IN FASHION DESIGN **60580**
Credits: 2

Careers in fashion span aspects of the textile and apparel industries. Within the context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications career cluster, students will be expected to develop an advanced technical understanding of the business aspects of fashion, with emphasis on promotion and retailing. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

PRACTICUM IN GRAPHIC DESIGN **60580**
Credits: 2

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.

CAREER AND TECHNOLOGY – BUSINESS, MARKETING, AND FINANCE

PRINCIPLES OF BUSINESS, MARKETING AND FINANCE **60630**
Credit: 1

In this course, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, marketing of goods and services, product pricing. Students analyze the sales process and financial management principles. This course allows students advertising, and to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems and settings in business, marketing, and finance.

BIM I: BUSINESS INFORMATION MANAGEMENT I **60650**
Credit: 1

This course develops advanced skills in Microsoft Office programs such as spreadsheets, formatting documents, producing presentations, and other necessary skills for success in the business, marketing, or finance industry. This course is one of the foundation courses in the Business, Marketing, and Finance career pathway.

ACCOUNTING I **60820**
Prerequisite: BIM I or Principles of Information Technology **Credit: 1**

Students investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students engage in the process of recording, classifying, summarizing, analyzing and communicating accounting information in an online accounting program. Students formulate and interpret financial information or use in management decision making.

ACCOUNTING II **60830**
Prerequisite: Accounting I **Credit: 1**

This course offers additional instruction in accounting practice and methodology. Students will complete the coursework independently through an online accounting program as if they were running their own business. Although students will work in a regular classroom setting, the accounting practice will be more independent.

BUSINESS LAW **60680**
Credit: 1

This course will focus on important legal issues in the field of business. This course is designed for students who intend on completing a degree in business or accounting.

ENTERPRENEURSHIP **61580**
Prerequisite: Principles of Information Technology, BIM I or Principles of Business, Marketing and Finance **Credit: 1**

Students will learn the principles necessary to begin and operate a business. Students will focus on analyzing business opportunities, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

BUSINESS MANAGEMENT **60641**
Credit: 1

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

PRACTICUM IN BUSINESS MANAGEMENT **60730**
Credits: 2-3

Students applying for practicum experience must have a pre-arranged internship in the field. The unpaid practicum is designed to give students supervised practical application of the knowledge and skills they have learned throughout the program. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, internships, assistantships, mentorships, or laboratories. Students will work in a supervised setting and be required to maintain regular communication with the instructor. This highly independent setting requires students be responsible and capable of completing tasks independently.

SPORTS AND ENTERTAINMENT MARKETING **60631**
Credit: 1

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

VIRTUAL BUSINESS
Credit: 1

Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

SOCIAL MEDIA MARKETING **60632**
Credit: 1

Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

PRACTICUM IN MARKETING **60633**
Credit: 1

Students will gain knowledge and skills that help them to be proficient in one or more of the marketing functional areas associated with distribution, financing, marketing information management, pricing, product planning, promotion, purchasing, risk management, and selling skills.

CAREER AND TECHNOLOGY – EDUCATION & TRAINING

PRINCIPLES OF EDUCATION AND TRAINING **60740**
Credit: 1

This introductory course focuses on careers in the world of education and training. If you're interested in coaching, teaching, working as a professional trainer in a business, or serving as an administrator in a public or private school, this course will give you the opportunity to analyze these and other related careers within the education career pathway.

HUMAN GROWTH & DEVELOPMENT **60750**
Credit: 1

Human Growth and Development is the study of human development from conception to the elderly. This exciting class progresses through every stage of life. Psychology, ethics, parenting, relationships, and life stages are studied. Students who wish to pursue a career in education, nursing or social work should consider this course.

INSTRUCTIONAL PRACTICES **60760**
Credits: 2

This class is full of opportunities to learn how to be an educator: creating lessons, classroom management, and how/why students learn in different ways. . These concepts are taught by working in classrooms, observing teachers, by working with learners, and creating projects.

PRACTICUM IN EDUCATION & TRAINING **60770**
Prerequisite: Instructional Practices in Education & Training **Credits: 2**

Students applying for practicum experience must have a pre-arranged internship in the field. This unpaid practicum is designed to give students supervised practical application of the knowledge and skills they have learned throughout the program. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, internships, assistantships, mentorships, or laboratories. Students will work in a supervised setting and be required to maintain regular communication with the instructor. This highly independent setting requires students to be responsible and capable of completing tasks independently.

CHILD DEVELOPMENT **60751**
Credit: 1

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

CHILD GUIDANCE **60752**
Credit: 1

Child Guidance is a technical laboratory course that 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. Instruction may be delivered through school-based laboratory training or through work-based delivery arrangements such as cooperative education, mentoring, and job shadowing.

CAREER AND TECHNOLOGY – HEALTH SCIENCE

PRINCIPLES OF HEALTH SCIENCE **60950**
Credit: 1

Students will focus on careers in the health care industry and learn some basic skills for participation in that industry. Students will investigate diagnostic, therapeutic, biotechnology research and development systems for a better understanding of the health care system. 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. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

HEALTH SCIENCE THEORY **60970**
Prerequisite: Principles in Health Science and Biology **Credit: 1**
Uniform supplies by student, about $40.00
Transportation is highly recommended

The Health Science course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will have hands-on experiences for continued knowledge and skill development. The course may be taught by different methodologies such as clinical rotation and career preparation learning. 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. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

HEALTH SCIENCE THEORY AND CLINICALS **60972**
Credits: 2

This course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

PRACTICUM IN HEALTH SCIENCE **60980**
Credits: 2

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. 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. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

MEDICAL TERMINOLOGY **60960**
Prerequisite: Biology **Credit: 1**

This course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, combining forms, and singular and plural forms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology. 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. The health science industry is comprised of diagnostic, therapeutic, health informatics, support services, and biotechnology research and development systems that function individually and collaboratively to provide comprehensive health care. Students should identify the employment opportunities, technology and safety requirements of each system. Students are expected to apply the knowledge and skills necessary to pursue a health science career through further education and employment. Professional integrity in the health science industry is dependent on acceptance of ethical and legal responsibilities. Students are expected to employ their ethical and legal responsibilities and limitations and understand the implications of their actions.

ANATOMY & PHYSIOLOGY **60990**
Prerequisite: One science credit **Credit: 1**

Students interested in the health care career pathway should consider Advanced A & P as their cumulative science course. This course is an in-depth look at the functions of the human body and its systems. Students will learn about major muscle groups, bone identification, and other human traits. *This counts as a science credit

PHARMACOLOGY **60989**
Credit: 1

This course is recommended for students who have successfully completed Principles of Health Science, Biology, and Chemistry and are interested in pursuing this specific career field. This course will focus on the properties associated with the study of therapeutic agents and their involvement in healthcare.

CAREER AND TECHNOLOGY – HOSPITALITY & TOURISM

PRINCIPLES OF HOSPITALITY **61030**
Credit: 1

This course will explore the variety of career options in the field of hospitality. Students will explore hotel and restaurant management positions as well as culinary specific trades.

INTRODUCTION TO CULINARY ARTS **61059**
Prerequisite: Nutrition or Principles of Hospitality **Credit: 1**

This course will emphasize the principles of planning, organizing, staffing, directing, and controlling the management of a variety of food service operations. The course will provide insight into the operation of a well-run restaurant. Students will assist with the management of the Scratch Café and catering jobs.

CULINARY ARTS **61060**
Prerequisite: One credit in restaurant management or nutrition courses **Credits: 2**

This course begins with the fundamentals and principles of the art of cooking in addition to the science of baking and includes management and productions skills and techniques. Students will pursue a nationally recognized sanitation certification.

ADVANCED CULINARY ARTS **61061**
Credits: 2

This course will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.

HOTEL MANAGEMENT **61032**
Credit: 1

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

HOSPITALITY SERVICES **61033**
Credit: 1

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.

TRAVEL AND TOURISM MANAGEMENT **61031**
Credit: 1

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

PRINCIPLES OF COSMETOLOGY DESIGN & COLOR THEORY
Credit: 1

Students coordinate integration of academic, career, and technical knowledge and skills in this laboratory instructional sequence course designed to provide job-specific training for employment in cosmetology careers. Students will attain academic skills and knowledge as well as technical knowledge and skills related to cosmetology design and color theory. Students will develop knowledge and skills regarding various cosmetology design elements such as form, lines, texture, structure and illusion or depth as they relate to the art of cosmetology. Instruction includes sterilization and sanitation procedures, hair care, nail care, and skin care and meets the TDLR requirements for licensure upon passing the state examination. Analysis of career opportunities, license requirements, knowledge and skills expectations, and development of workplace skills are included.

PRACTICUM IN HOSPITALITY SERVICES **61051**
Credits: 2

Students are taught employability skills, including job-specific skills applicable to their training plan, job interview techniques, communication skills, financial and budget activities, human relations, and portfolio development. Practicum in Hospitality Services is relevant and rigorous, supports student attainment of academic and technical standards, and effectively prepares students for college and career success.

CAREER AND TECHNOLOGY – LAW, PUBLIC SAFETY, CORRECTIONS, AND SECURITY

PRINCIPLES OF LAW **61330**
Credit: 1

Students will learn about professions in law enforcement, security, corrections, and fire and emergency management services. Students will learn about the roles and responsibilities of police, courts, corrections, private security, and protective agencies of fire and emergency services.

LAW ENFORCEMENT I **61340**
Credits: 2

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

LAW ENFORCEMENT II **61350**
Prerequisite: Law Enforcement I **Credit: 1**

Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. This course includes the ethical and legal responsibilities, operation of police and emergency telecommunication equipment, and courtroom testimony.

COURT SYSTEMS **61370**
Prerequisite: Law Enforcement I **Credit: 1**

This course is an overview of the federal and state court systems. The course identifies the roles of judicial officers and the trial processes from pretrial to sentencing and examines the types and rules of evidence. Emphasis is placed on constitutional laws for criminal procedures such as search and seizure, stop and frisk, and interrogation.

FORENSIC SCIENCE **61360**
Prerequisite: Biology and Chemistry **Credit: 1**
Recommended Prerequisite: Physics

Forensic Science is a course that uses 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.

CAREER AND TECHNOLOGY – MANUFACTURING

INTRO TO WELDING **61439**
Credit: 1

Students will develop knowledge and skills related to welding 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 will prepare students for future success.

WELDING I **61440**
Prerequisite: Principles of Manufacturing OR Principles of Architecture and Construction **Credits: 2**
$15.00 certification fee

Welding provides the knowledge, skills, and technologies required for employment in metal technology systems. Students will learn about career opportunities, requirements, and expectations and the development of workplace skills. Students will work towards NCCER certification for Welding. Certification exams cost $15.

WELDING II **61450**
Prerequisite: Welding I **Credits: 2**
$15.00 certification fee

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. Students will continue to work on advanced NCCER Certifications. Certification exams cost $15.

PRACTICUM IN MANUFACTURING **61501**
Credits: 2
Prerequisite: Completion of a manufacturing career pathway outlined in the curriculum guide or approval of instructor. Students applying for practicum experience must have a pre-arranged internship in the field of manufacturing.

This unpaid practicum is designed to give students supervised practical application of the knowledge and skills they have learned throughout the program. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as independent study, internships, assistantships, mentorships, or laboratories. Students will work in a supervised setting and be required to maintain regular communication with the instructor. This highly independent setting requires students to be responsible and capable of completing tasks independently.

MANUFACTURING ENGINEERING I & II PROCESS TECH I – DUAL CREDIT **6185D**
Prerequisite: Students must complete FAFSA and application **Credit: 1**
Tuition and fees – Semester 1

The course is the first class in a series of courses offered at AHS by Brazosport College for students interested in a career in plant operations. Students who complete these courses will be eligible for employment in traditional plant operations or may elect to specialize in the field of nuclear technology. Instruction is designed to provide job-specific training for entry- level employment in instrumentation careers. Instructional activities include use of schematics, electronic theory, mechanical and electrical measurement of length, volume, ph factor, weight, mass, pressure, temperature, humidity, viscosity, and wind shear systems. Scholarships are available.

OIL & GAS PRODUCTION - SYSTEM I & II PROCESS TECH II – DUAL CREDIT **6186D**
Prerequisite: Students must complete FAFSA and application **Credit: 1**
Tuition and fees – Semester 2

A technical course in lettering, engineering geometry, multi-view drawings, sectioning, pictorial representation, dimensioning, detail auxiliary and assembly drawings, reproduction of drawings and selection of equipment and supplies. Several hands-on design problems are completed throughout the year. The course will be taught on computerized equipment comparable to equipment found in today's plants. Scholarships are available.

PRECISION METAL MANUFACTURING I (MILLWRIGHT I & II) **61441**
Credits: 2

This course is an introduction to millwright technology. A study of common millwright tools fasteners, including specialty, power, and precision tools are explored. Development of skills in basic layout procedures, gasket making and installation, and oxygen/ fuel cutting are focused on. The properties of metals and the installation of packing are also studied. An emphasis is placed on safety practices and protocols in the accomplishment of these activities. NCCER credit available.

PRECISION METAL MANUFACTURING II (MILLWRIGHT III & IV) **61443**
Credits: 2

This course is an introduction the identification of common bearings and seals. Emphasis is placed on the design and installation of seals, bearings, and couplings. In addition, students will know recognition and application of pumps to focus on troubleshooting, repair, and installation of pumps. NCCER credit available.

PLUMBING TECH I – PIPEFITTING I – DUAL CREDIT
Credit: 1

Students will acquire knowledge and skills in industry workplace basics and employer/customer expectations, including how to use a plumbing code book; how to identify and use power and hand tools; how to be safe on the jobsite and when using hand and power tools; how to apply basic plumbing mathematics and plumbing drawing; and how to identify, fit, and use plastic, copper, cast iron, carbon steel, and corrugated stainless steel pipe. In addition, students will be introduced to gas, drainage, and water supply systems and continue their knowledge of workplace basics and green technologies.

PLUMBING TECH I – PIPEFITTING II – DUAL CREDIT

Credit: 1

Students will acquire knowledge and skills in plumbing codes, industry workplace basics, and employer/customer expectations, including tool and jobsite safety, advanced plumbing mathematics, commercial drawings, basic electricity, hanger installation, supports and structural penetrations, roof drains, fixture installation, valves and faucets, and oxy-fuel safety. Students will also learn about setup, cutting, brazing and welding water system sizing; gas, drain, waste and vent installation and testing; and water heater installation.

CAREER AND TECHNOLOGY – TRANSPORTATION SYSTEMS

AUTOMOTIVE TECHNOLOGY I – DUAL CREDIT **6176D**
Prerequisite: Students must complete FAFSA and application **Credits: 2**
Tuition and fees

Students will learn the knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. The focus of the course is to teach the theory of operation of automotive vehicle systems and associated repair practices. Students participating in this course will attend classes at Brazosport College 2-3 days per week and earn both high school and college credit. Transportation to the college is provided. Scholarships are available.

AUTOMOTIVE TECHNOLOGY II – DUAL CREDIT **6177D**
Prerequisite: Automotive Technology I, Students must complete FAFSA and application **Credits: 2**
Tuition and fees

Students will build on the skills learned in Auto Technology I. Advanced course work will include more career investigation into job attainability and practicality. Students participating in this course will attend classes at Brazosport College 2-3 days per week and earn both high school and college credit. Transportation to the college is provided. Scholarships are available.

ENGINEERING DESIGN AND PROBLEM SOLVING **62003**
Prerequisite: Geometry, Algebra II, may be taken concurrently with Chemistry of Physics **Credit: 1**

Engineering Design and Problem Solving reinforces and integrates skills learned in previous mathematics and science courses. This course emphasizes solving problems, moving from well-defined toward more open-ended, with real-world application. Students will apply critical-thinking skills to justify a solution from multiple design options. Additionally, the course promotes interest in and an understanding of career opportunities in engineering. This course satisfies a fourth science credit.

FUNDAMENTALS OF COMPUTER SCIENCE **62008**
Credit: 1

Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems.

COMPUTER SCIENCE I **62004**
Credit: 1

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

COMPUTER SCIENCE II **62007**
Prerequisite: Algebra I and Computer Science I **Credit: 1**

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

AP COMPUTER SCIENCE PRINCIPLES **62000**
Grades: 9-12 **Credit: 1**

This course will help students understand how computing and technology influence the world around them. Students will learn how to creatively address real-world issues while using the same tools and processes artists, writers, computer scientists, and engineers use to bring ideas to life. Students will work on two major projects during the course and will take the College Board examination in May.

*****This is NOT a CTE course.**

CAREER AND TECHNOLOGY – SCIENCE, TECHNOLOGY, ENGINEERING AND MATH (STEM)

PRINCIPLES OF APPLIED ENGINEERING **62010**
Grade: 9 **Credit: 1**

Students gain greater understanding of the various fields in science, technology, engineering, and mathematics by developing communication skills, which include computer graphics modeling in presentations to complete assignments and projects. Engineering theory and processes – Computer aided design (Autodesk).

ENGINEERING DESIGN AND PRESENTATION I **62001**
Grades: 10-11 **Credit: 1**
Required Fee / Materials
Industry certification: Autodesk AutoCAD

Students will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects.

ENGINEERING DESIGN AND PRESENTATION II **62002**
Grades: 11-12 **Credits: 2**
Required Fee / Materials
Industry certification: Autodesk Inventor

Students will demonstrate knowledge and skills of the design process as it applies to engineering fields using multiple software applications and tools necessary to produce and present working drawings, solid model renderings, and prototypes. Students will use a variety of computer hardware and software applications to complete assignments and projects.

ROBOTICS I **62005**
Prerequisite: 3 credits of science **Credit: 1**
Grades: 11-12

Robotics is a lab-based course that uses a hands-on approach to introduce the basics of construction and programming of mobile robots. Students will learn basic programming, as well as problem solving strategies. Students will work in teams to design, build, program, and document their progress. Scientific and mathematical principles will be used and applied to tasks such as motor control, gear ratios, timing sequences, programing loops, logic gates, and propulsion systems. VEX robotics systems will be utilized in this course. Student designed robots will be programmed to compete in various challenges developed by FIRST Robotics Competition, and/or VEX Robotics Competition.

ROBOTICS II **62006**
Grades: 11-12 **Credit: 1**

In Robotics II, students will explore artificial intelligence and programming in the robotic and automation industry. Through implementation of the design process, students will transfer academic skills to component designs in a project-based environment. Students will build prototypes and use software to test their designs.

MANUFACTURING ENGINEERING TECHNOLOGY I – DUAL **62011**
Credit: 1

In Manufacturing Engineering Technology I, students will 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. Students will prepare for success in the global economy. The study of manufacturing engineering will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in a manufacturing setting.

PRACTICUM IN STEM **62006**
Grade: 12 **Credits: 2**

Designed to give students supervised 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. The practicum course is a paid or unpaid capstone experience for students participating in a coherent sequence of career and technical education courses in the STEM Career Cluster. There are required fees and materials.

SPECIAL EDUCATION – ELECTIVES

ADAPTIVE PHYSICAL EDUCATION **57100**
Prerequisite: Physician's recommendation **Credit: 1**
Grade: 9-12

Any student unable to participate in regular physical education activities may have the physical education activities adapted to the needs or limitations of the student with a physician's approval.

PERSONAL SOCIAL SKILLS **90002**
Grade: 9-12 **Credit: ½ or 1**
Offered both semesters

This course is designed to assist students with social and/or academic skills. Recommendation required.

COMMUNITY BASED VOCATIONAL INSTRUCTION - Alternate
82000, 82010, 82020, 82030, 82040, 82050
Prerequisite: Occupational Preparation is recommended **Credit: 2**
Grade: 10-12

The student trains at non-paid sites in the community. The purpose of this training is to teach the student good work habits, good work attitudes and job skills. Only students enrolled in the special education program can register for this course.

WILDCAT TRANSITION CENTER **82080**
Grade: 12 **Credit: 1**
Prerequisite: Must have completed the required high school curriculum and the TAKS or STAAR requirements.

Job skills and Living Skills are intensively taught. Only students enrolled in the Special Education program can register for this course.

OCCUPATIONAL PREPARATION – M **81080**
Grade: 10-12 **Credit:1**

This course is designed to meet the student's individual needs in the acquisition of pre-employment skills, interview skills, and the development of an understanding of the characteristics of a desirable employee. IEPS are included as part of the curriculum.

MISCELLANEOUS

STUDENT COUNCIL LEADERSHIP I **61300**
Grade: 11-12 **Credit: 1**
Prerequisite: Elected officers or appointed standing committee chairmen of Student Council

This class is designed for those students who are interested in learning the skills necessary for working with people in leadership roles. The students are challenged to develop organizational, problem solving and public speaking skills.

LIBRARY ASSISTANT **62910**
Grade: 12 **Credit: 1**

Students who work in the library assist with filing, record-keeping, shelving books and other general duties. This class is available only to senior students who have adequate credits for graduation.

OFFICE ASSISTANT **62710**
Grade: 12 **Credit: 1**

The attendance office, front office and counselor's office require the assistance of student workers. Their duties will involve filing, gathering attendance folders, answering telephones, delivering messages and locating students who are needed in the office for various reasons. This class is available only to senior students who have adequate credits for graduation.

PEACE **15100**
Grade: 9-12 **Credit: 1**
Prerequisite: Nomination by staff/student body and selection by coordinators

This class will train students and implement a program of peer mediation. Students will be given conflict resolution strategies that will enable them to lead their peers toward non-violent methods to resolve differences. Training, referrals, mediation, and evaluation will be the elements of the course curriculum. Selection for the program is make through a process of nomination, written application, and interviewing.

PEER ASSISTANCE AND LEADERSHIP (PAL) **15200**
Grade: 11-12 **Credit: 1**
Prerequisite: Nomination by staff/student body and selection by coordinators

Students are selected to represent a cross-section of the student body population. They are trained in the skills of mediation and mentoring. Their purpose is to act as role models for their peer and community. These students serve as peer mediators on campus, speakers on conflict resolution throughout the district and community, mentors to students throughout the district and leaders on campus. **Selection is made through a process of nomination, written application and interviewing.**

TEACHER ASSISTANT **61500**
Grade: 12 **Credit: 1**

Teacher assistants aid teachers in preparing bulletin boards, tutoring students and completing clerical tasks.

OFF PERIODS **62500**
Grade: 12

Seniors will have the opportunity to earn no more than two (2) off periods if each of the following criteria is met:

1. Student has met the college readiness performance standard for reading and math via the PSAT, SAT, ACT, and/or TSI;
2. Student has passed all required EOCs;
3. Student is on track with and successfully passing all course graduation requirements; and
4. The off period(s) can be scheduled into 1st and 2nd periods, 7th and 8th periods, or 1st and 8th periods.