



**2022 - 2023**



**COURSE OF STUDY GUIDE**

# **Table of Contents**

***Introduction – [page 3](#)***

***State Requirements for Foundation Graduation Program and Endorsements – [pages 4](#)***

***Texas High School Diploma Flowchart – [page 5](#)***

***Performance Acknowledgements Available at N.H.S. (Beginning: 2014-15 Academic Year) – [page 6](#)***

***General Information (grade point average, advanced placement, etc.) – [pages 7-8](#)***

***Course Offerings & Grade Placement – (course number, course title, grade(s) requirement, credit, pre-requisites) – [pages 9-15](#)***

## **Course Descriptions**

Communications, ELA, and Languages – pages 16-18

Social Studies – pages 19-20

Mathematics – pages 21-22

Technology Applications – page 23

Science – pages 23-24

Health Education – page 24

Physical Education – page 25

Athletics – page 25

Fine Arts – pages 26-27

Career and Technical Education – pages 27-33

***Nederland HS Career & Technical Education – (Course Sequences / Programs of Study Chart) – [page 34](#)***

***Industry-Based Certifications – [page 35](#)***

***Work-Based Learning Program (Information about NHS Work Program) – [page 36](#)***

# NEDERLAND HIGH SCHOOL

## COURSE OF STUDY

*Published by Nederland High School Guidance and CTE Departments*

**2022– 2023**

### **INTRODUCTION**

Nederland High School offers a comprehensive educational program, which meets the requirements of the Foundation Graduation plans. Our students are always encouraged to enrich their program as much as possible. This booklet has been designed to assist students and parents with course selections. Keep in mind the following: your selected graduation plan requirements, course prerequisites, college admission requirements, and your career pathway.

Planning courses for the next school year is the first step toward long-range career planning. Decisions should be based on the student's understanding of his/her interests and abilities. Students should seek as much information as possible about career choices from a variety of sources. Vocational assessments are generally provided at the middle school level; however, if a student has not had a vocational evaluation prior to ninth grade, Nederland High School will provide one. High school offers rich educational opportunities in preparation for future goals.

Students are encouraged to talk to teachers instructing the courses in which they are interested and/or talk to their counselor about options or courses available to them. Keep this guide for future references. Ultimately it is the responsibility of the parent/guardian and student to ensure that course selections meet the requirements of the student's graduation plan.

### **Instructions for Making Course Selections:**

Students should read and review the graduation requirements as well as the available courses listed in this book. Course selections should be the equivalent of eight credits. Students should select alternative courses and be aware that they may be placed in those courses when necessary. Some elective courses may not materialize due to lack of demand. Schedule conflicts may place a student in an alternate course. If a student fails to receive credit in a required course, his/her course selection will be changed to correct any deficiency in graduation requirements. Any students failing one or more parts of the STAAR/EOC Exam may be required to take a STAAR/EOC preparation class.

Any changes in course requests must be made by May 20<sup>th</sup>. After that date course selections are FINAL.

### **General Information**

Nederland High School operates on an alternating block schedule of eight periods with four ninety-minute periods per day.

### **Minimum Enrollment Requirements per Grade Level:**

9 <sup>th</sup> Grade	-	8 credits
10 <sup>th</sup> Grade	-	8 credits
11 <sup>th</sup> Grade	-	8 credits
12 <sup>th</sup> Grade	-	7 credits

Seniors must meet certain criteria regarding credits, attendance, CCMR and STAAR/EOC mastery before being eligible for a "No Class". Student attendance must be 90% or better, they must be on track for graduation, have passed all parts of STAAR/EOC and must be on the Foundation Graduation plan with an endorsement. Seniors also must retain full-time status, which means that they must be enrolled as a full-time student each day.

### **Grade Level Status:**

**Units of Credit**  
0 - 5  
5.5 - 11  
11.5 - 17  
17.5 - over

**Classification**  
Freshman  
Sophomore  
Junior  
Senior

**Students will not be promoted to the next grade level unless they have attained the minimum required credits. In order to earn credit for a course, a student must earn a grade of 70 or above and be present 90% of the days in which the course is offered.**

# STATE REQUIREMENTS FOR FOUNDATION GRADUATION PROGRAM AND ENDORSEMENTS

## Beginning with the incoming 2018-2019 Freshmen

---

### Foundation at Nederland High School:

English I, II, III, IV	4 credits
Algebra 1, Geometry, Advanced Math	3 credits
Biology, (IPC/Chemistry,) Advanced Science	3 credits
World Geography, World History, US History, US Gov/Eco	3 credits
Foreign Language (Spanish or French) (Computer Science)	2 credits: Level I, II
Fine Art	1 credit
Technology	1 credit
PE	1-1/2 credits
Professional Communications	½ credit
Health	½ credit
Electives	2-1/2 credits
<hr/>	
	22 credits

### AND for any of the five Endorsements must include:

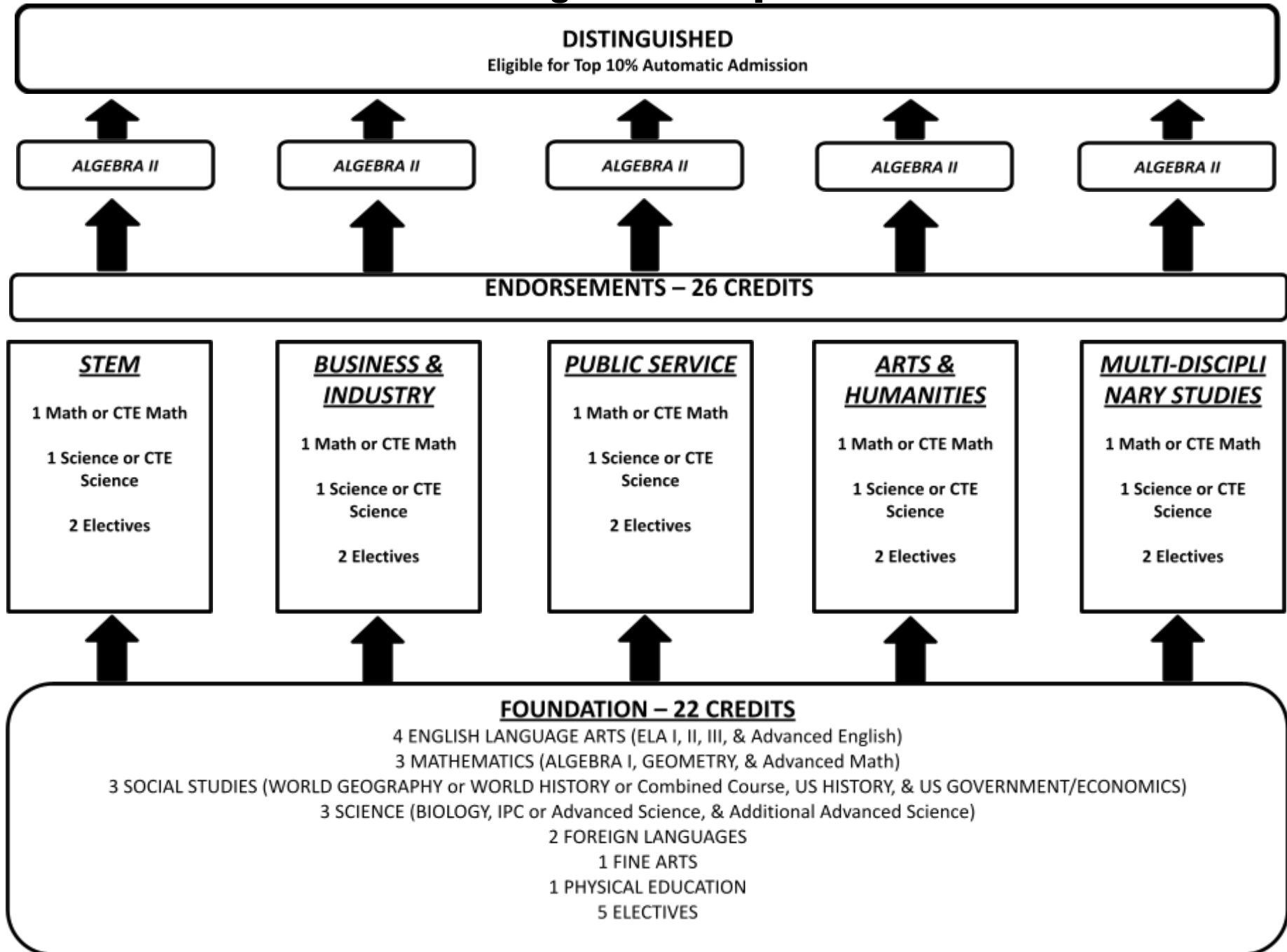
Algebra 2, CTE Math or Advanced Math	Additional 1 credit
Science or CTE Science	Additional 1 credit

### AND additional specific criteria/courses for each of the individual endorsements:

Science, Technology, Engineering and Math (STEM); Public Service; Arts and Humanities; Business and Industry; or Multidisciplinary

**TOTAL MINIMUM GRADUATION CREDITS with endorsement      26 credits**

# Texas High School Diploma



**Performance Acknowledgements Available at N.H.S.  
(Beginning: 2014-15 Academic Year)**

- I. A student may earn a performance acknowledgement on the student's transcript for outstanding performance in dual credit course by successfully completing at least 12 hours of college academic courses, including those taken for dual credit as part of the Texas core curriculum, and advanced technical credit courses, including locally articulated courses, with a grade equivalent of a "B" (3.0) or higher on a scale of 4.0
- II. A student may earn a performance acknowledgement on the student's transcript for outstanding performance in bilingualism and bi-literacy by demonstrating proficiency in two or more languages by:
  - (1) Completing all English language arts requirements and maintaining a minimum GPA of an 80 on a scale of 100: **AND**
  - (2) Completion of a minimum of three credits in the same language other than English with a minimum GPA of an 80 on a scale of 100: **OR**
  - (3) Demonstrated proficiency in the TEKS for level IV or higher in a language other than English with a minimum GPA of 80 on a scale of 100: **OR**
  - (4) Achieved a score of 3 or higher on an Advanced Placement exam for a language other than English  
***AND for English language learner must also have:***
  - (5) participated in and met the exit criteria for a bilingual or English as a second language (ESL) program; **AND**
  - (6) scored at the Advanced High level on the Texas English Language Proficiency Assessment System (TELPAS)
- III. A student may earn a performance acknowledgement on the student's transcript for outstanding performance on a college advanced placement examination by earning a score of 3 or above on a College Board advanced placement examination.
- IV. A student may earn a performance acknowledgement on the student's transcript for outstanding performance on the PSAT, the SAT, or the ACT by:
  - (1) A score on the PSAT/NMSQT that qualifies a student for recognition as a commended scholar or higher by the College Board and National Merit Scholarship Corporation, as part of the National Hispanic Recognition Program (NHRP) of the College Board or as part of the National Achievement Scholarship Program of the National Merit Scholarship Corporation; **OR**
  - (2) A combined critical reading and mathematics score of at least 1310 on the SAT; **OR**
  - (3) A composite score on the ACT exam (without writing) of 28.
- V. A student may earn a performance acknowledgement on the student's transcript for earning a state-recognized or nationally or internationally recognized business or industry certification or license with:
  - (1) Performance on the examination sufficient to obtain a nationally or internationally recognized business or industry certification; **OR**
  - (2) Performance on an examination sufficient to obtain a government-required credential to practice a profession; **OR**
  - (3) Nationally or internationally recognized business or industry certification shall be defined as an industry-validated credential that complies with knowledge and skills standards promulgated by a nationally or internationally recognized business, industry, professional, or government entity representing a particular profession or occupation that is issued by or endorsed by: (A) a national or international business, industry, or professional organization; (B) a state agency or other government entity; or (C) a state-based industry association. **OR**
  - (4) Certifications or licensures for performance acknowledgements shall: (A) be age appropriate for high school students; (B) represent a student's substantial course of study and/or end-of-program knowledge and skills; (C) include an industry-recognized examination or series of examinations, an industry-validated skill test, or demonstrated proficiency through documented, supervised field experience; and (D) represent substantial knowledge and multiple skills needed for successful entry into a high-skill occupation.

## General Information

### **Grade Point Average (GPA) Calculation:**

The GPA is a measure of the student's total academic performance beginning in the ninth grade. The grade point average is calculated by adding the grade points earned for each course per semester and dividing by the total number of semester courses. For both Weighted and College GPA, all grades count toward GPA and class rank except local credits, credits earned before entering high school, credits earned by distance learning, credits earned through "Credit by Exam", and credits earned in adult night school.

Weighted GPA Conversion Scale (GPA used for ranking)

<u>Grade</u>	<u>Regular</u>	<u>Pre-AP/AP/Honors/Co-Enrolled</u>
90 – 100	3.0 – 4.0	4.0 – 5.0
80 – 89	2.0 – 2.9	3.0 – 3.9
75 – 79	1.5 – 1.9	2.5 – 2.9
70 – 74	1.0 – 1.4	2.0 – 2.4
0 – 69	- 0 -	- 0 -

The weighted grade point will be given for courses taken in residence at other high schools only if Nederland High School offers those same courses during the semester earned.

College GPA Conversion Scale (GPA shown on HAC and transcript)

<u>Grade</u>	<u>Conversion</u>
90 – 100	4
80 – 89	3
75 – 79	2
70 – 74	1
0 – 69	- 0 -

### **HONORS POLICY: Honors = Any class classified as PreAP, AP, Co-enrolled, Honors (excluding Honors Band)**

Students are encouraged to take enriched coursework. Students wanting to sign up for Honors courses should be aware of the following:

- English Honors courses require outside reading assignments during the summer prior to the start of the school year.
- Placement in Honors classes will require signature of parent, student, and teacher. Students will not be placed in Honors classes until the Honors contract is completed and turned into the counselor's office.

### **DROPPING HONORS CLASSES:**

- Students may only drop an Honors class in the following situations:
  - Students can drop at the end of a marking period (1<sup>st</sup>, 2<sup>nd</sup> or 3<sup>rd</sup> 6 weeks) if a student has a failing grade for that marking period.
  - Students passing the first semester can drop at the end of the first semester.
    - \*If a student drops an Honors class, he/she will be allowed to move to a regular class if room is available.
- Students may be dropped at the discretion of administrators.
- If students decide to continue the Honors class after the 1<sup>st</sup> semester, they must remain in the class until the end of the year.
- Students not completing an Honors class will not receive a weighted grade point.

### **Honor Graduate Criteria:**

Graduates shall be ranked in the following order:

1. Valedictorian
2. Salutatorian
3. Top 2 ½ % designated Magna Cum Laude graduates
4. Second 2 ½ % designated Cum Laude graduates

A student must have earned a minimum of ten (10) credits in his junior and senior years at Nederland High School to be designated an honor graduate.

**Top 10% Rule:**

Students graduating in the top 10% of their class with the Distinguished Level of Achievement of the Foundation Plan are guaranteed admission by state law to any Texas public university or college except University of Texas (Austin), as long as they meet required admission deadlines.

**National Honor Society:**

The Nederland High School Chapter of the National Honor Society was organized in 1951. The charter of the National Honor Society specifies that the membership selection shall be made upon the basis of character, leadership, scholarship and service. It further states that only students with an accumulated GPA of 3.4000 weighted from the junior or senior class will be considered for election. Membership is determined by a majority vote of the faculty council and is consistent with the rules and regulations of the National Honor Society. A National Honor Society member who transfers from another school and brings a letter from the former principal or chapter advisor shall be accepted automatically as a new member.

**Academic Letter Criteria:**

Senior members of the National Honor Society who receive a semester grade of 90 or above in each course during the two semesters immediately preceding the semester in which they graduate, are eligible to receive an academic letter.

**Sociedad Honoraria Hispánica Costa De Oro: National Spanish Honor Society:**

The purpose of the society is to recognize high achievement in the study of Spanish and to promote continuity of interest in Hispanic studies. The society is classified as a National Honor Society of high school Spanish and is sponsored by the American Association of Teachers of Spanish and Portuguese. To be eligible, a student must be in 10<sup>th</sup> – 12<sup>th</sup> grades, currently enrolled in Spanish III or IV, and have A's in three consecutive semesters of Spanish.

**Local Credit:**

Some courses are offered as "Local Credit" only. Local credits may not be counted toward the state requirements for graduation (22-26 credits). Examples include: study hall, office/teacher aide, math lab, innovative courses not approved for state credit such as ACT/SAT Prep, Accelerated instruction in English, Math, Science, and Social Studies.

**Cumulative School Records:**

The academic achievement record (AAR) includes course work, grades, attendance, standardized test scores, and is the student's permanent school record. A student's graduation program is documented on the AAR.

**Personal Graduation Plans/STAAR Mastery:**

Students who do not pass all parts of STAAR/EOC will participate in a personal graduation plan meeting where plans for EOC preparation will be developed. For 2011-2012 and later EOC (End of Course) passing standards must be achieved in English 1, English II, Biology, Algebra I, and US History.

**Summer School Program/Academic Remediation:**

Summer school courses are offered primarily for academic remediation of courses failed during the school year. Students choosing to take a course for advanced credit during summer school must obtain approval from their counselor prior to the end of the school year.

Students are eligible to earn up to four credits by correspondence for the completion of graduation requirements. Seniors are eligible to earn one credit in adult night school for remediation purposes during the second semester of the senior year. Students must be passing all classes at NHS at the time of night school registration to be eligible. This option requires approval from the principal and counselor.

**Credit by Exam:**

NISD students may take accelerated advancement tests, or "Credit by Exam", for courses in which they have received or not received prior instruction. Students must receive approval from their counselor and the secondary curriculum supervisor before registering for an exam.

**No Prior Instruction:** Students who have no prior instruction in a course must obtain a score of 80% or higher in order to receive credit.

**Prior Instruction:** Students who have had prior instruction in a course may be awarded credit if the student scores 70% or higher on the approved exam.

**Home School:**

Students transferring to NISD from a home school program will be awarded credits based on the review of the official transcript from the home school institution. Credits will only be awarded if the transcript is sent directly from the home school program/provider to NISD.



## COURSE OFFERINGS & GRADE PLACEMENT

<u>COURSE#</u>	<u>COURSE TITLE</u>	<u>GRADE</u>	<u>CREDIT</u>	<u>PREREQUISITES</u>
100	Study Hall	9-12	½ -1 local	None
<b>ENGLISH – LANGUAGE ARTS</b>				
200	Reading	9-12	1	ARD Recommendation
2001/2002	Reading	9-12	½	ARD Recommendation
211	English I Pre-AP	9	1	Teacher Recommendation
212	English I	9	1	None
214	Modified English I	9	1	ARD Recommendation
215	English Second Lang. I	9	1	ELL Recommendation/Parent Approval
221	English II Pre-AP	10	1	Teacher Recommendation
222	English II	10	1	English I or I Pre AP
224	Modified English II	10	1	ARD Recommendation
225	English Second Lang II	10	1	ELL Recommendation/Parent Approval
2311	English III AP	11	1	Teacher Recommendation
232	English III	11	1	English II or II Pre-AP
234	Modified English III	11	1	ARD Recommendation
235	English Second Lang III	11	1 local	ELL Recommendation/Parent Approval
241	English IV AP	12	1	Teacher Recommendation, Eng III or Eng III AP
242	English IV	12	1	English III or Eng III AP
243C	Co-Enrolled English Comp.	12	1 high school 3 college hrs/semester	TSIA2, Teacher Recommendation, Eng III
2431C	Co-Enrolled English Comp.	11	1 High School 3 college hrs/semester	TSIA2, Teacher Recommendation, Eng II
2432C	Co-Enrolled English Lit	12	1 high school 3 college hrs/semester	Eng 1301 & English 1302 (CoEnrolled Composition)
244	Modified English IV	12	1	ARD Recommendation
245	English Second Lang IV	12	1 local	ELL Recommendation/Parent Approval
247	Creative Writing	10-12	½	None
248	Poetry	10-12	½	None
251	Journalism I	9-12	1	None
252	Adv. Journalism: Yearbook/Photo	10-12	1	Journalism I, Teacher Approval
253	Adv. Journalism: Newspaper/Photo	10-12	1	Journalism I, Teacher Approval
256	Desktop Publishing	11-12	1	Journalism, Adv Journalism, Teacher Approval
2601/2602	Independent Study Speech	11-12	½	Teacher Approval
263	Debate I	9-12	1/2 - 1	Sponsor Teacher Approval
264	Debate II	10-12	½ - 1	Debate I, Teacher Approval
271	French I	9-12	1	None
272	French II	9-12	1	French I
273	French III Honors	10-12	1	A/B French I, French II & Teacher Rec
274	French IV Adv. Honors	11-12	1	A/B French III Honors & Teacher Rec
291	Spanish I	9-12	1	None
292	Spanish II	9-12	1	Spanish I
292H	Spanish II Honors	9-12	1	Spanish I & Teacher Rec
293	Spanish III Honors	10-12	1	A/B Spanish I, Spanish II & Teacher Rec
294	Spanish IV AP	11-12	1	A/B Spanish III Honors & Teacher Rec
295	Exploratory Languages	10-12	1	Spanish I or French I & Committee App
2950	Spanish V AP	11-12	1	Spanish IV AP & Teacher Rec

**SOCIAL STUDIES**

312	World Geography	9	1	None
314	Modified W. Geography	9	1	ARD Recommendation
321	World History Pre-Ap	9-10	1	Teacher Recommendation
322	World History	10	1	None
323	World History AP	10-12	1	World History Pre- AP & Teacher Rec
324	Modified W. History	10	1	ARD Recommendation
328	Sociology	10-12	½	None
329	Psychology	10-12	½	None
331	U.S. History AP	11-12	1	World Geography or World History or World History PreAP or World History AP, Recommend. from English & History Teachers
332	U.S. History	11	1	World Geography or World History
3321C	Co-Enrolled US History	11-12	1 high school	World Geography or World History or World History PreAP or World History AP and TSIA2
334	Modified U.S. History	11	1	ARD Recommendation
342	U.S. Government	12	½	US History or US History AP or CoEnrolled US History
3421	Co-Enrolled Government	12	½ high school 3 college hrs	US History or US History AP or CoEnrolled US History and TSIA2
3422	U.S. Government & Politics AP	12	½	US History or US History AP or CoEnrolled US History and Teacher Recommendation
3423	Co-Enrolled Texas Government	12	½	US History or US History AP or CoEnrolled US History and TSIA2
343	Economics	12	½	US History or US History AP or CoEnrolled US History
3431	Co-Enrolled Economics	12	½ high school 3 college hrs	US History or US History AP or CoEnrolled US History and TSIA2
3432	Macroeconomics AP	12	½	US History or US History AP or CoEnrolled US History and Teacher Recommendation
3433	Personal Financial Literacy	12	½	None
344	Modified U.S. Government	12	½	ARD Recommendation
345	Modified Economics	12	½	ARD Recommendation
3461	AVID I	9	1	Committee Recommendation
3462	AVID 2	10	1	Committee Recommendation
3463	AVID 3	11	1	Committee Recommendation
3464	AVID 4	12	1	Committee Recommendation

**MATHEMATICS**

402	College Readiness Intermediate Algebra	12	1	Passing score on the Algebra I EOC Test; Passing average below 78 in Algebra II
412	Algebra I	9	1	None
4121B	Algebra/Lab	9	1 local, 1 state	Teacher Recommendation
4191	SAT Prep	12	½ local	None - Fall
4192	SAT Prep	11	½ local	None - Spring
421	Geometry Pre-AP	9-10	1	8th Grade Algebra I, or Teacher Rec. and Concurrent enrollment in Alg. II Pre-AP
422	Geometry	10	1	Algebra I
4221B	Geometry/Lab	10	1 local, 1 state	Algebra I Lab, Teacher Recommendation

430	Mathematical Models w/Applications	11-12	1	Algebra I(Reg or Lab), Geometry(Reg or Lab)
431	Algebra II Pre-AP	10	1	Geometry Pre-AP, or concurrent enrollment with Geometry Pre-AP
432	Algebra II	10 -11	1	Algebra I and Geometry and Teacher Rec
4322	Algebra II for Seniors	12	1	Algebra I, Geometry, Math Models or concurrent enrollment in Math Models
4323	Algebraic Reasoning	11-12	1	Algebra II
433	Statistics	11-12	1	Algebra II
441	Pre-Calculus Pre-AP	11	1	Geometry Pre-AP, Alg II Pre-AP, Teacher Rec
442	Pre Calculus	11-12	1	Geometry, Algebra II
443	Statistics AP	11-12	1	Algebra II Pre-AP or Teacher Recommendation
444	Modified Math Models	11-12	1	ARD Recommendation
450	Math Independent Study – Calculus	12	1	Pre Calculus
451	Calculus AP	12	1	Pre Calculus Pre-AP, Teacher Recommendation
451BC	AP Calculus BC	12	1	Pre Calculus Pre-AP, Teacher Recommendation
454	Modified Pre-Algebra	9	1	ARD Recommendation
456	Modified Algebra I	9-10	1	ARD Recommendation
457	Modified Geometry	10-11	1	ARD Recommendation

## **TECHNOLOGY APPLICATIONS**

490	Fundamentals of Computer Science	9-12	1	Algebra I
491	Computer Science Pre-AP (I)	9-12	1	Geometry or concurrent enrollment in Geometry Pre-AP
492C	AP Computer Science A (II)	10-12	2	Computer Science Pre-AP, Teacher Recommendation

**\*\*256 Desktop Publishing, 9265 Principles of AV Technology, 9267 Video Production, 981 BIM or 9812 BIM II also meet the Technology Application requirement for graduation.**

## **SCIENCE**

501	Accelerated Test Ins. Science	11-12	½	Non-Mastery EOC Biology
512	Integrated Physics & Chemistry	9-12	1	Teacher Recommendation
514	Modified IPC	9-12	1	ARD Recommendation
516	Modified Earth Space Science	11-12	1	ARD Recommendation
521	Biology Pre-AP	9	1	Teacher Recommendation
522	Biology	9-12	1	None
523	Earth Space Science	11-12	1	Biology, IPC or equivalent science
524	Modified Biology	9-12	1	ARD Recommendation
531	Biology AP	11-12	1	Teacher Recommendation required (Bio & Chem); Outside projects will be assigned; Biology Pre-AP & Chem I Pre-AP are prerequisites with A/B average in both
9531	Anatomy & Physiology I Honors	11-12	1	Teacher Recommendation required (Bio & Chem); Biology Pre-AP & Chem I Pre-AP are prerequisites with A/B average in both
532	Chemistry Pre-AP	10-12	1	A/B average in Algebra I or Geometry, Teacher Recommendation required from Biology, No Math Lab
533	Chemistry I	10-12	1	Biology and Algebra I
541	Chemistry AP	11-12	1	Chem Pre-AP + Teacher Recommendation required

5411C	Co-Enrolled Chemistry	11-12	1 high school 4 college hrs	Chemistry Pre-AP Required + Completion of College Algebra, Alg II - grade higher than "C", Teacher Rec required, TSIA2
550	Physics	11-12	1	Algebra I, Geometry and currently enrolled in Algebra II Enrolled in Algebra II
5502	Honors Physics	11-12	1	Algebra I, Geometry, and currently enrolled in Algebra II w/ an avg of B or better in math courses. Recommendation from math or chemistry from math or chemistry teacher.
5510	AP Physics I (Algebra Based)	11-12	1	Honors Physics and Physics teacher recommendation required
934	Forensic Science	11-12	1	Biology and Chemistry; (a third science credit recommended)
935	Principles of Technology	12	1	Algebra; Biology, IPC, and an advance science

## **HEALTH EDUCATION**

651	Health Education	9-12	½	None
-----	------------------	------	---	------

## **PHYSICAL EDUCATION**

6012-6013	Boys Individual Sports	9-12	½	None
6022-6023	Boys Team Sports	9-12	½	None
6141-6142	Inclusive P.E.	9-12	½	ARD Recommendation
6212-6213	Girls Individual Sports	9-12	½	None
6222-6223	Girls Team Sports	9-12	½	None

## **ATHLETICS**

603	Football Study Hall	10-12	1	Coach Approval
6041-47	Football	9-12	1	Coach Approval
6051-58	Basketball Boys	9-12	1	Coach Approval
6061-68	Soccer Boys	9-12	1	Coach Approval
6071-78	Baseball Boys	9-12	1	Coach Approval
6081-88	Golf Boys	9-12	1	Coach Approval
6091-98	Beginning Tennis	9-12	1	Coach Approval
60901-08	Advanced Tennis	9-12	1	Coach Approval
6101-08	Cross Country	9-12	1	Coach Approval
6241-48	Volleyball Girls	9-12	1	Coach Approval
6251-58	Basketball Girls	9-12	1	Coach Approval
6261-68	Soccer Girls	9-12	1	Coach Approval
6271-78	Softball Girls	9-12	1	Coach Approval
6281-88	Golf Girls	9-12	1	Coach Approval
6301-06	Westernaires/Dance	10-12	1	Sponsor Approval
6311-18	Cheerleading	9-12	1	Elected Each Year
6551-58	Swimming	9-12	1	Coach Approval
6771-78	Trainer	9-12	1	Trainer Approval
6401-08	Track	9-12	1	Coach Approval

**FINE ARTS**

711	Art I	9-12	1	None
712	Art II	10-12	1	Art I & Teacher Recommendation
713	Art III	11-12	1	Art II & Teacher Recommendation
714	Art IV	12	1	Art III & Teacher Recommendation
721	Honors Band I, II, III, IV	9-12	1	Audition & Teacher Approval
722	Symphonic Band I, II, III, IV	9-12	1	Audition & Teacher Approval
723	Concert Band A I, II, III, IV	9-12	1	Audition & Teacher Approval
724	Concert Band B I, II, III, IV	9-12	1	Audition & Teacher Approval
725	Instrumental Ensemble	9-12	1	Audition & Teacher Approval
731	Choral Music Tenor Bass Choir	9-12	1	None
732	Concert Choir	10-12	1	Previous choral training, audition & Director Approval
734	Vocal Ensemble Ned and Co	10-12	1	Concurrent enrollment in another choir class, Audition and Director Approval
735	Chorale Music Treble Choir	9-12	1	None
736	Music Theory AP	10-12	1	Teacher Recommendation
741	Theatre Arts I	9-12	1	None
742	Theatre Arts II	10-12	1	Theatre Arts I, Teacher Recommendation
743	Theatre Arts III	11-12	1	Theatre Arts II, Teacher Recommendation
744	Theatre Arts IV	12	1	Theatre Arts III, Teacher Recommendation
746	Technical Theatre	10-12	1	Theatre Arts I, Teacher Recommendation
747	Theatre Production	9-12	1	Theatre Arts I and/or Audition Required

## **CAREER & TECHNICAL EDUCATION**

### **AGRICULTURAL, FOOD & NATURAL RESOURCES**

911	Principles of Agriculture, Food & Natural Resources (AFNR)	9-11	1	None
9161	Wildlife Fisheries & Ecology Management	10-12	1	None
9172	Practicum in Agriculture, Food & Natural Resources	11-12	2	Prin. of AFNR, Selection Rubric
9173	Practicum in Agriculture, Food & Natural Res II	12	2	Pract. AFNR, Selection Rubric
9180	Equine Science	10-12	½	None
9182	Small Animal Management	10-12	½	None
919	Advanced Animal Science	11-12	1	Biology (Chemistry/IPC) Algebra I, Geometry & Sm Animal Mgmt. or Equine

### **ARCHITECTURAL CONSTRUCTION**

9502	Prin. Of Construction Management	10-12	1	None
9502D	Principles of Construction-DC	12	1	Dual enrollment LSCPA semester I, HART1303
9503	Construction Technology I/ Electrician Apprenticeship	12	2	Algebra I
9505C	HVAC Technology I	11-12	1	Dual enrollment LSCPA semester I & II: HART 1301
9506	HVAC Technology II	12	2	Dual Enrollment LSCPA semester II: HART1345

### **ARTS, A/V TECHNOLOGY & COMMUNICATION**

922	Fashion Design I	10-12	1	None
9261	Professional Communication	9-12	½	None
9265	Principles of Arts, A/V Tech & Communications	10-12	1	None
9267	Audio Video Production I	10-12	1	Selection Rubric
9269	A/V Production II with lab	11-12	2	Audio Video Production I

### **BUSINESS, MANAGEMENT & ADMINISTRATION**

9101	Principles of Business, Marketing & Finance	9-12	1	None
980	Business English	12	1	English III
981	Business Information Mgmt I	9-12	1	None
9812	Business Information Mgmt II	10-12	1	Business Information Mgmt I
9831	Practicum in Business Mgmt w/ ext. Practicum	12	3	Recommended PBMF/ Selection rubric

### **EDUCATION AND TRAINING**

920	Instructional Practices/Peer Tutoring	12	2	Selection Rubric
-----	---------------------------------------	----	---	------------------

### **FINANCE**

972	Banking & Financial Services	9-12	½	None
974	Accounting I	9-12	1	None
975	Accounting II	10-12	1	Accounting I

### **HEALTH SCIENCE**

9601	Principles of Health Science	9-12	1	None
960	Health Science Theory	11-12	1	Biology
962	Practicum in Health Science w/ ext. Practicum: CNA	12	3	Health Science Theory, Selection Rubric
9625	Practicum in Health Science: CPCT/A	12	2	Health Science Theory, Selection Rubric
9631	Medical Terminology	10-12	1	None
9531	Anatomy & Physiology I Honors	11-12	1	Biology & Chem I Pre-AP (Bio & Chem), selection Rubric

**HOSPITALITY AND TOURISM**

9281	Intro. To Culinary Arts	10-12	1	Recommended LN&W
9282	Culinary Arts	11-12	2	Intro. To Culinary Arts

**HUMAN SERVICES**

921	Principles of Human Services	9-10	1	None
923	Lifetime Nutrition & Wellness	10-12	½	None
9251	Family & Community Services	10-12	1	None
9263	Career Preparation I w/ ext practicum	11-12	3	Recommended PBMF/ selection rubric
9264	Career Preparation II w/ ext practicum	12	3	Career Preparation I, selection rubric
9271	Child Development	10-12	1	None
929	Dollars and Sense	9-12	½	None
9451C	Cosmetology I (LSCPA)	11-12	3 high school 7 semester credit hours per semester	None
9461C	Cosmetology II (LSCPA)	12	3 high school 7 semester credit hours per semester	Cosmetology I

**LAW, PUBLIC SAFETY, CORRECTIONS, & SECURITY**

930	Law Enforcement I	11-12	1	None
931	Law Enforcement II	11-12	1	Law Enforcement I
9321	Principles of Law, Public, Safety, Corrections & Security	9-12	1	None
933	Court Systems & Practices	10-12	1	None
934	Forensic Science	11-12	1	Biology, Chemistry, (a third science is recommended)

**MANUFACTURING**

9412	Intro. To Welding	10-11	1	None
9421	Welding I	11-12	2	Intro. To Welding
9471	Welding II	12	2	Welding I
948C	Process Operating Technology	12	2 high school 7 credit hours	Dual credit w/ LSCPA
949	Metal Fabrication & Machining I	12	2	Welding II or advanced Welding Credit

**MARKETING**

9841	Practicum in Marketing w/ ext practicum	11-12	3	Recommended PBMF/selection rubric
9851	Practicum in Marketing II w/ ext practicum	12	3	Practicum in Marketing, selection rubric

**SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS**

9511	Principles of Applied Engineering	9-12	1	None
953	Engineering Design & Presentation I	10-12	1	Principles of Applied Engineering & Alg I
9533	Engineering Design & Presentation II	11-12	2	Engineering Design & Presentation I
9534	Robotics I	9-12	1	None
9535	Robotics II	10-12	1	Robotics I
935	Principles of Technology	12	1	Algebra; Biology, IPC, or a 3 <sup>rd</sup> Science

**TRANSPORTATION, DISTRIBUTION & LOGISTICS**

9401	Automotive Basics	9-12	1	None
9431	Automotive Technology I	11-12	2	Automotive Basics
9441	Automotive Technology II	12	2	Automotive Technology I

## **COMMUNICATIONS. ELA AND LANGUAGES**

### **200 Reading – 1 cr.**

For students needing to develop further reading skills. ARD Recommendation

### **2001/2002 Reading – ½ cr.**

For students needing to develop further reading skills. Semester class. ARD Recommendation

### **211 English I Pre-AP – 1 cr.**

English I Pre-AP empowers students to become confident, independent readers, writers, and thinkers in preparation for college by engaging them in rigorous, real- world instructional applications and curriculum. This course focuses on the critical reading of expository and literary texts, the writing process, and literary analysis. In reading, the students will learn how to fully analyze a text using strategies such as dialectical journaling, annotating, and other close reading techniques. In writing, students will learn to compose thoughtful compositions and adapt writing style and tone to audience and purpose using precise syntax, phrasing, and dictation. Students will learn to write a research paper using the M.L.A. format, and will incorporate technology whenever applicable. *Completion of summer reading required.*

### **212 English I – 1 cr.**

This course introduces all freshman level students to the writing and research process. Students will write across multiple genres with focus primarily on expository writing. In addition, students will develop age appropriate revising and editing skills. The exploration of literature will include the comprehension and analysis of: the novel, short stories both fiction and nonfiction, drama, the epic and poetry. Students are expected to use technology to produce multiple products and to enhance their reading and writing skills.

### **214 Modified English I – 1 cr.**

This course gives emphasis to the further development of reading skills, grammar and usage, punctuation, vocabulary, and sentence structure. The study of literature includes the novel, short story, drama, and the epic. Students are expected to use appropriate technology to produce computer-generated answers to research questions. ARD Recommendation

### **221 English II Pre-AP – 1 cr.**

The focus of this course is to extend students' exploration of self and society by examining the shared stories of humans around the world. This course will take a combined geographic, chronological, and thematic approach in order to provide students not only with a sense of humans' shared experiences, but also with an understanding of how these experiences were shaped by history, culture, and geography of different parts of the world. *Completion of summer reading required.*

### **222 English II – 1 cr.**

This course is required for graduation and a STAAR tested course. The course strongly focuses on analyzing elements of World Literature (fiction, non-fiction, poetry, and drama) while making modern day connections to the literature. An emphasis is placed on persuasive essay writing and a research paper to prepare students for STAAR and college readiness. Students will further develop their grammar, punctuation, and proofreading skills to enhance their writing abilities. STAAR preparation, college readiness, and real world expectations will be met through a variety of genres including: class discussions, group projects, and individual achievements.

### **224 Modified English II – 1 cr.**

This course gives emphasis to the further development of reading skills, grammar and usage, punctuation, vocabulary, and sentence structure. The study of literature includes the novel, short story, drama, and the epic. Students are expected to use appropriate technology to produce computer-generated answers to research questions. ARD Recommendation

### **231 English III AP – 1 cr. (Lang & Comp)**

This course focuses on the studying and writing of various kinds of analytical and persuasive essays on non-literary topics of many disciplines and historical periods. Throughout the course, students develop a personal writing style in addition to evaluating, synthesizing, and citing research to support their arguments. *Completion of summer reading required.*

### **232 English III – 1 cr.**

Develops an appreciation of American literature and poetry through reading of various texts from various time periods. Composition, editing, research and vocabulary skills will be further developed. A research paper is required.

### **234 Modified English III – 1 cr.**

This course provides a chronological study of selections in English literature, which develops an appreciation of American culture. Fundamentals of grammar, punctuation, vocabulary, and sentence structure are studied in conjunction with technology related activities that will be considered important in the search for jobs/careers after high school. ARD Recommendation



**241 English IV AP – 1 cr. (Lit. & Comp)**

This course focuses on reading, analyzing, and writing about imaginative literature (fiction, poetry, drama) from various periods. While they read, students consider the work's structure, style and theme, as well as its use of figurative language and tone. Writing assignments include expository, analytical, and argumentative essays that require students to analyze and interpret literary works. *Completion of summer reading required. Teacher Recommendation*

**242 English IV – 1 cr.**

Study of selections in English literature fused with the principles of grammar and composition. This class aids students in improving written communication and reading comprehension in preparation for college readiness. The completion of a senior research paper/project is required for graduation.

**243 Co-Enrolled Eng. Comp. – 1 H. S credit & 3 college hours/sem. (12th grade)**

Students must be ready to complete rigorous, collegiate work that includes daily homework and reading. 1<sup>st</sup> semester: An analytical essay based class with emphasis on grammar, writing, and literary analysis skills. 2<sup>nd</sup> semester: A research paper based class with emphasis on college-level research and writing skills. *Must meet TSIA2 standard and completion of summer reading required.*

**2431 Co-Enrolled English Comp 1301 and 1302- 1 high school credit and 3 college hrs./semester (11th grade)**

See description above for 243. *Must meet TSIA2 standard and completion of summer reading.*

**2432 Co-Enrolled English Lit 2322 and 2323- 1 high school credit and 3 college hrs/semester (12th grade)**

A survey of the development of British literature from the Anglo- Saxon period to the present. Students will study prose, poetry, drama and fiction to their relation historical, linguistics, and cultural contexts. Text will be selected from a diverse group of authors and traditions. *Prerequisite: Engl 1301 and Engl 1302 and completion of summer reading.*

**244 Modified English IV – 1 cr.**

This course provides a chronological study of selections in English literature, which develops an appreciation of American culture. Fundamentals of grammar, punctuation, vocabulary, and sentence structure are studied in conjunction with technology related activities that will be considered important in the search for jobs/careers after high school. ARD Recommendation

**247 Creative Writing – ½ cr.**

Designed primarily for students with a particular interest in language arts and creative/imaginative writing.

**248 Poetry – ½ cr.**

Provides students the opportunity to examine a variety of poetic forms, study the work of renowned poets, participate in oral interpretation, and write original poetry.

**251 Journalism I – 1 cr.**

Basic skills in journalistic writing and production needed to advance to newspaper and yearbook.

**252 Adv. Journ: Yearbook/Photo- 1 cr. Publish the Pilot. Teacher Approval****253 Adv.Journ:Newspaper/Photo – 1 cr. Publish the BULLDOG BEAT. Teacher Approval****256 Desktop Publishing – 1 cr. Counts as a computer requirement, 3<sup>rd</sup> year Advanced Journalism course. Teacher Approval****2601/2602 Ind. Study Speech – ½ or 1 cr.**

Students may sign up for the first semester or both semesters of this course. Students participate in extensive research on a wide variety of topics. Team for academic decathlon is selected from this class. Sponsor Recommendation required

**263 Debate I – ½ or 1 cr.**

Primarily geared to debate/forensics skills: analysis, reasoning, research, etc. Students will keep up with current events and compile information regarding important events in history, government, and popular culture. Students will also learn competitive speaking skills. This course also includes competitive forensic activity. Some weekend travel is required. Teacher Approval

**263 Debate II – 1 cr.**

Geared to experienced debaters. Students will research and write forensic cases that adhere to the current UIL and TFA debate topics as well as keep current with all events in the nation and the world. This course involves competitive forensic activity. Weekend travel is required. Teacher Approval

**271 French I – 1 cr.**

Introduction to basic conversational French skills: vocabulary, grammar, reading, writing, speaking and understanding; along with songs, poetry, culture and geography of French-speaking countries.

**272 French II – 1 cr.**

Expansion of French I skills, with emphasis on oral, reading, writing, additional vocabulary and grammar skills, listening comprehension; and culture of French-speaking countries.

**273 French III Honors – 1 cr.**

Preparation for college CLEP tests, with emphasis on intermediate oral proficiency, vocabulary, grammar, listening and reading comprehension, writing and culture. French II and Teacher Recommendation

**274 French IV Adv. Honors – 1 cr.**

Expansion of French III skills, preparation for college CLEP tests, with emphasis on advanced oral proficiency, grammar, reading, writing, history, literature, and culture. French III and Teacher Recommendation

**291 Spanish I – 1 cr.**

Introduction to basic conversational Spanish skills with emphasis on speaking, writing, reading, vocabulary and grammar of the Spanish language; also emphasizes the culture and geography of Spanish speaking countries.

**292 Spanish II – 1 cr.**

Expansion of Spanish I skills with emphasis on basic oral proficiency, additional vocabulary and mid-level grammar, skills, culture, listening and comprehension.

**292H Spanish II Honors – 1 cr.**

Expansion of Spanish I skills with emphasis on basic oral proficiency, additional vocabulary and high-level grammar, skills, culture of Spanish speaking countries. This course will be a preparatory course for Spanish III Honors. Spanish I and Teacher recommendation

**293 Spanish III Honors – 1 cr.**

Advanced Spanish grammar with emphasis on intermediate oral proficiency, understanding, and vocabulary of the Spanish language and culture of Spanish speaking countries. Spanish II and Teacher Recommendation required

**294-Spanish IV AP – 1 cr.**

Preparation for college Clep and AP exam with emphasis on advanced comprehension and oral proficiency, vocabulary, grammar of the Spanish language, culture of Spanish speaking countries and Hispanic literature. Spanish III Honors and Teacher Recommendation required

**295 Exploratory Languages – 1 cr.**

Exploratory Languages enhances the student's study of other languages. Students use components of language, make observations about languages and cultures, develop language study skills, and acquire simple communicative skills. Spanish I or French I and Committee Approval

**2950 Spanish V AP – 1 cr.**

Communication is at the heart of second language study, whether the communication takes place face-to-face, in writing, or across centuries through the reading of literature. Through the study of other languages, students gain a knowledge and understanding of the cultures that use that language and, in fact, cannot truly master the language until they have also mastered the cultural contexts in which the language occurs. Learning languages provides connections to additional bodies of knowledge that may be unavailable to the monolingual English speaker. Through comparisons and contrasts with the language being studied, students develop insight into the nature of language and the concept of culture and realize that there are multiple ways of viewing the world. Together, these elements enable the student of languages to participate in multilingual communities at home and around the world in a variety of contexts and in culturally appropriate ways. Spanish IV AP and Teacher Recommendation required

## **SOCIAL STUDIES**

### **312 World Geography – 1 cr.**

A study of the physical and human systems that shape the world and how they interact.

### **314 Modified World Geography – 1 cr.**

A study of the physical and human systems that shape the world and how they interact. Emphasis on vocabulary and regional locations. [ARD Recommendation](#)

### **321 World History – Pre-AP– (10gr.) 1 cr.**

Offers an overview of an entire history of humankind – a study of significant people, events, and issues from ancient times to the present, both Western civilization and other significant cultures. Geography and its impact on people and events is a major theme in this course. In addition, students will analyze the development of representative government and important legal and political concepts. They examine the history and impact of major religious and philosophical traditions. Students will also analyze the connections between developments in science and technology and the growth of industrial economics. Students will use a variety of primary and secondary sources such as biographies, autobiographies, novels, speeches and letters, poetry, music and works of art to support this study. This course requires extensive reading and writing. [English & Social Studies Teachers Recommendations](#)

### **322 World History – 1 cr.**

A study of man's past with emphasis on geography, law, government, the arts, and major world religions.

### **323 World History AP-1 cr.**

A study of the culture, economic, political, and social developments that have shaped the world from c. 1200 CE to the present. Students will analyze texts, visual sources, and other historical evidence and write essays expressing historical arguments. Heavy focus will be on evaluating primary and secondary sources, analyzing the claims, evidence, and reasoning found in sources, putting historical developments in context and making connections between them, and coming up with a claim or thesis and explaining and supporting it in writing. [English & Social Studies Teachers Recommendations](#)

### **324 Modified World History – 1 cr.**

A study of man's past with emphasis on geography, law, government, the arts, and major world religions. [ARD Recommendation](#)

### **328 Sociology – ½ cr.**

Introduces students to the problems of people living together as social groups. Problems such as crime, poverty, civil rights, and population are studied as separate units.

### **329 Psychology – ½ cr.**

Deals with human behavior. The sum of a person's actions, traits, attitudes, thoughts, feelings, and desires are explored.

### **331 United States History AP – 1 cr.**

Designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. Prepares students to take the Advanced Placement Exam for college credit. [English & Social Studies Teachers Recommendations](#)

### **332 United States History – 1 cr.**

A study of the United States from the Civil War into the 20<sup>th</sup> century.

### **3321 Co-Enrolled U.S. History – 1 cr. and 3 college hours/semester**

Designed to provide students with the analytic skills and factual knowledge necessary to deal critically with the problems and materials in U.S. History. Students will receive credit for both U.S. History 1301 and American History 1302 (college). *Must meet TSIA2 standard.* [English & Social Studies Teachers Recommendations](#)

### **334 Modified U.S. History – 1 cr.**

A study of the United States from the Civil War into the 20<sup>th</sup> century. [ARD Recommendation](#)

### **342 United States Government – ½ cr.**

American government assists students in the preparation for citizenship responsibilities in our democratic society and includes practical applications to the political process.

**3421 Co-Enrolled Government – ½ H.S. credit & 3 college hours**

Covers the required objectives of high school government as well as providing a study of the national and Texas constitutions; federalism, political socialization, and participation; public opinion and interest groups, parties, voting and elections. Students will receive credit for both high school government and 2305 Introduction to American Government I (college). *Must meet TSIA2 Standard.* English & U.S. History Teachers Recommendations

**3422 United States Government & Politics AP– 1 cr.**

This course requires analysis of literature on the structure of the U.S. Government and how our government functions. The ultimate goal for the course is to prepare the students for the AP Exam and introduce college level curriculum. The design of this course includes a heavy emphasis on writing and interpreting historical data and research. English & U.S. History Teachers Recommendations

**3423 Co-Enrolled Texas Government - ½ cr.**

Provides a study of the origin and development of the Texas constitution, structure and powers of state and local government, federalism and inter- governmental relations, political participation, the election process, public policy, and the political culture of Texas. Students will receive credit for Government 2306. (3 college hours) *Must meet TSIA2 standard.* English & U.S. History Teachers Recommendations

**343 Economics – ½ cr.**

A study of the American free enterprise system. Other topics include decision-making in the investment process, the profit motive, competition, economic inter- Dependence, and the rules of business, labor, and government.

**3431 Co-Enrolled Economics – ½ H.S. credit & 3 college hours**

Introduction to economic principles; allocation of resources; determination of output and prices; distribution and managerial economics, monetary theory; national income analysis; fluctuation and growth; public finance; international trade and current economic problems. Students will receive credit for both high school economics and 2302 Principles of Microeconomics (college). *Must meet TSIA2 standard.* U.S. History Teacher Recommendation

**3432 Macroeconomics AP – 1 cr.**

This course is designed as a foundation for possible future study in economics or business. It requires analysis and interpreting of literature and data on how our economy functions. The ultimate goal for the course is to prepare the students for the AP Exam and introduce college level curriculum. U.S. History Teacher Recommendation

**3433 Personal Financial Literacy - ½ cr.**

Includes instruction in personal financial literacy, setting financial goals, instruction in methods for paying college, completing the application for federal student aid (FAFSA) provided by the United States Department of Education, and other postsecondary training.

**344 Modified U.S. Government – ½ cr.**

American Government assists students in the preparation for citizenship responsibilities in our democratic society and includes practical applications to the political process. ARD Recommendation

**345 Modified Economics – 1 cr.**

A study of the American free enterprise system. Other topics include competition, economic interdependence, and the rules of business, labor, and government. ARD Recommendation

**3461 – 3464 AVID – 1 cr.**

The AVID elective class prepares students in the academic middle for college eligibility and success. Students receive instruction in writing, inquiry, collaboration, and reading strategies in addition to note-taking and organizational skills that are necessary for academic success. AVID students must enroll in at least one Pre-AP or AP course in addition to the AVID elective class. Support is provided during the AVID class to ensure student success in all courses. Skills acquired in this course will be implemented by the student across the curriculum. Students are selected based on teacher recommendations, student interviews, and other factors. AVID Committee Recommendation

## **MATHEMATICS**

### **402 College Readiness Intermediate Algebra- 1 cr.**

A study of relations and functions, inequalities, algebraic expressions and equations, including absolute value, polynomial, radical, and rational, with a special emphasis on linear and quadratic expressions and equations. Recommended for students who have not demonstrated college readiness as defined by HB5. This course is intended to prepare students for the study of entry-level college mathematics. Prerequisite: Passing score on the Algebra I EOC test; Passing average below 78 in Algebra II.

### **412 Algebra I – 1 cr.**

First of state required mathematics credits. Emphasis is placed on skills necessary for success in future math courses, as well as STAAR EOC readiness. Placement based on 8th grade Teacher Recommendation.

### **4121 A/L Algebra I/Algebra Lab – 1 state/1 local cr.**

First of state required mathematics credits. This course is designed for those students that need daily reinforcement of Algebra concepts and skills. Placement based on 8th grade Teacher Recommendation.

### **4191 SAT Prep – ½ (local) cr. (Fall Semester)**

For 12<sup>th</sup> grade students. Designed to prepare students for the Math, Verbal and Writing portions of the SAT. Instruction and test taking strategies will be incorporated in this course.

### **4192 SAT Prep – ½ (local) cr. (Spring Semester)**

For 11<sup>th</sup> grade students. Designed to prepare students for the Math, Verbal and Writing portions of the SAT. Instruction and test taking strategies will be incorporated in this course.

### **421 Geometry Pre-AP – 1 cr.**

Designed for students intending to pursue upper-level college math courses. Covers the same curriculum as regular Geometry, but has a higher degree of difficulty including student-generated projects and challenging problems that involve some deriving. Teacher Recommendation

### **422 Geometry – 1 cr.**

College preparatory course and second of the state required math credits. A highly organized study of geometric figures in one, two, and three dimensions, including formal mathematical proofs.

### **4221 A/L Geometry/Geometry Lab – 1 state/1 local cr.**

The second of the four state required mathematics credits. This course is designed for those students who need daily reinforcement of Geometry concepts and skills. Teacher Recommendation

### **430 Mathematical Models with Applications – 1 cr.**

A preparatory class for Algebra II, Math Models is an integrated program which combines mathematical topics presented in Algebra I and Geometry. This course is only recommended to be taken before Algebra II for those students who need a review of Algebra I and Geometry concepts.

### **431 Algebra II Pre-AP – 1 cr.**

An in-depth study of Algebra II concepts designed for students who will take Precalculus Pre-AP and Calculus AP. Teacher Recommendation

### **432 Algebra II – 1 cr.**

A college preparatory course that builds on concepts studied in Algebra I and Geometry and introduces higher level math concepts needed for Pre-Calculus. This course is intended for students planning to graduate on the Foundation with Endorsement Plan. Teacher Recommendation

### **4322 Algebra II for Seniors – 1 cr.**

Designed exclusively for seniors needing their fourth math credit. This course will prepare students for introductory college math courses.

### **4323 Algebraic Reasoning – 1 cr.**

Students will broaden their knowledge of functions and relationships, including linear, quadratic, square root, rational, cubic, cube root, exponential, absolute value, and logarithmic functions. Students will study these functions through analysis and application that includes explorations of patterns and structure, number and algebraic methods, and modeling from data using tools, and software tools,

including spreadsheets.

**433 Statistics - 1 cr.**

Introduces students to major concepts for collecting, analyzing and making inferences from statistical studies. Topics include statistical process sampling, variability, categorical and quantitative data, and probability. This course is designed for college-bound seniors. Must maintain 80 or better both semesters Alg II.

**441 Pre Calculus Pre-AP – 1 cr.**

Designed for students planning to take Calculus AP in high school. A study of functions, graphs, and applications; trigonometry; vectors and sequences and series. Teacher Recommendation

**442 Pre Calculus – 1 cr.**

Designed for students not planning to take Calculus AP in high school. A study of functions and graphs, trigonometry, vectors and sequences and series.

**443 Statistics AP – 1 cr.**

Introduces students to major concepts for collecting, analyzing, and drawing conclusions from data. Topics include probability, exploratory analysis and statistical inference. Prepares students to take the College Board Advanced Placement Statistics Test in the Spring. Teacher Recommendation

**444 Modified Math Models – 1 cr.**

Applied Math Models teaches students skills that they see as practical and needed for everyday living. The importance and relevance of each new skill presented is emphasized with opportunities to apply the skill in practical situations. Measurement, use of fractions in the home, and checkbooks are examples of the skills emphasized. ARD Recommendation

**450 Math Independent Study – Calculus – 1 cr.**

The study of differential and integral calculus. Prepares students to master calculus at the university level. Introduces topics taught in the first semester of college calculus during the two semester school year.

**451 Calculus AP – 1 cr.**

The study of differential and integral calculus. Prepares students to take the College Board Advanced Placement Test in the Spring to earn one 4-hour college credit of calculus. Teacher Recommendation

**451BC AP Calculus BC - 1cr**

The study of differential calculus, integral calculus, sequences and series. Prepares students to take the College Board Advanced Placement Test in the spring to earn two 4-hour college credits of calculus. Teacher Recommended

**454 Modified Pre-Algebra – 1 cr.**

Applied Pre-Algebra is for students who need more instruction in mathematics before entering a formal algebra program. The course teaches basic concepts of mathematics and introduces algebra concepts in a step-by-step approach. Because students learn in many different ways, emphasis is placed on including instruction using a variety of modalities. ARD Recommendation

**456 Modified Algebra – 1 cr.**

Applied Algebra teaches the basic concepts of algebra in a step-by-step approach that meets the standards set by the state of Texas. This curriculum is for students who need extra help grasping new concepts. Because students learn in many different ways, emphasis is placed on including instruction using a variety of modalities to promote concept mastery. ARD Recommendation

**457 Modified Geometry - 1 cr.**

Modified Geometry is for students who need more instruction and extra help in grasping new mathematical concepts. The course teaches basic geometrical concepts in a step-by-step simplified approach. Emphasis is placed on including instructions using a variety of modalities. ARD recommendation

## **TECHNOLOGY APPLICATIONS**

### **490 Fund. Computer Science I – 1 cr.**

An introductory course in structured programming using a variety of languages. It is a preparatory course for those planning to enter the fields of engineering or mathematics.

### **491 Computer Science Pre-AP – 1 cr.**

A course in structured programming using Java. It is a preparatory course for those planning to enter the fields of computer science, engineering, mathematics, or plan to take Computer Science AP course. Can also count as 1 LOTE credit.

### **492/492A/LOTE Computer Science AP – 1 cr.**

A continuation of Computer Science Pre AP using Java. Prepares students for the Advanced Placement Computer Science Test in the Spring. Counts as an advanced math and 1 LOTE. Teacher Recommendation

## **SCIENCE**

### **512 Integrated Physics & Chemistry – 1 cr.**

A laboratory-oriented course consisting of a study of basic chemistry and physics. Designed to be taken before Chemistry.

### **514 Modified IPC– 1 cr.**

Introduces basic mathematical and physical theories dealing with the forces of the Earth. ARD Recommendation

### **516 Modified Earth Space Science - 1 cr.**

Introduces the basics and special topics of geology, oceanography, meteorology, and planetary astronomy. ARD Recommendation.

### **524 Modified Biology – 1 cr.**

Introduces the student to the growth, development, and activities of both plants and animals. ARD Recommendation

### **521 Biology Pre-AP – 1 cr.**

This lab-oriented course includes topics similar to those covered in the Biology course; however, a greater amount of material is covered and topics are explored in greater depth. The level of instruction will focus on preparing the students for upper level science courses. Extra time to study will be necessary in order to be successful. EOC tested. Previous Science grade should be a B or better, 8th Grade Teacher Recommendation

### **522 Biology I – 1 cr.**

Biology is a natural science concerned with the study of life and living organisms. Topics include cellular biology, biochemistry, homeostasis, photosynthesis, cellular respiration, genetics, ecology, plants, taxonomy and biological evolution. Laboratory work is a part of this course. EOC tested.

### **523 Earth Space Science – 1 cr.**

Comprehensive study of space, earth, and the hydrosphere incorporating concepts of Biology, Chemistry, and Physics. Prerequisites: two science credits. May be taken concurrently with the 3<sup>rd</sup> unit of science.

### **531 Biology AP – 1 cr.**

This course is designed especially for those interested in medical and biological fields. Dissection of a cat is included in this course. Prerequisites: Chemistry I Pre-AP, Biology I Pre-AP with A-B average in both. Teacher Recommendation (both Biology & Chemistry)

### **9531 Anatomy & Physiology Honors – 1 cr.**

Essential principles of human anatomy and physiology are presented, including basic chemistry, cell and tissue, the integument, skeletal, muscular and nervous systems, the structure and function of the human body and mechanisms for maintaining homeostasis with it. Prerequisites: Biology and Chemistry I Pre-AP. Student must have an A-B average in previous science courses. Teacher Recommendation (both Biology & Chemistry)

### **532 Chemistry Pre-AP – 1 cr.**

An enriched course concerned with matter and its changes, atomic structure, periodicity and physical states. The laboratory emphasizes basic chemical apparatus and procedure. Designed for students planning to take Chemistry AP, Co- enrolled Chemistry and Biology AP

or AP Physics I Pre-AP. Teacher Recommendation (Biology)

**533 Chemistry I – 1 cr.**

A basic course concerned with matter and its changes, atomic structure, periodicity and physical states. The laboratory emphasizes basic chemical apparatus and procedure.

**541 Chemistry AP – 1 cr.**

This course is designed especially for those students who plan to study chemistry, engineering, or medicine in college. Much time is devoted to laboratory work where both known and unknowns are tested. Chemistry I Pre-AP is required. Chemistry Pre-AP Teacher Recommendation

**5411 Co-Enrolled Chemistry – 1 H.S. credit and 4 college hours**

Introduction to chemistry for students who plan to attend college. Topics include atomic structure, the periodic table, formulas, equations, properties of solutions, stoichiometry, bonding, and thermochemistry. Students will receive credit for both high school Chemistry and General Chemistry 1411 (college). *Must meet TSIA2 standard.* Chemistry Pre-AP Teacher Recommendation

**550 Physics – 1 cr.**

An approach to physics with focus on concepts by using real-life applications. This course takes the big idea and makes them understandable to the student. A course to teach students how to think with emphasis on problem-solving skills and provides a solid science foundation that prepares students for college-level courses. Prerequisite: Algebra I; Geometry and currently enrolled in Algebra II

**5502 Honor Physics - 1 cr.**

This course covers topics similar to Physics I, but topics are covered more in depth with more complicated problem solving. Students will also develop skills in experiment design and additional skills to help them in AP level Physics. Math or Chemistry Teacher Recommendation

**5510 AP Physics I (Algebra based) – 1 cr.**

This course covers a scope equivalent to an algebra-based college Physics I course. Students will cover Kinematics, Newtonian Mechanics, Momentum, Circular and Rotational Motion, Energy, Electrostatics and Circuits, And Mechanical Waves. Prepares students to be successful at AP level problem solving and experiment designs. Physics Teacher Recommendation

**934 Forensic Science – 1 cr.**

A combination of biology, chemistry and physics will be applied to techniques used in the forensic science field. Students will learn the basics of crime scene analysis and apply the various sciences behind solving crimes through hands-on experiments. Examples of units include examining DNA evidence, applications of anthropology, trace evidence analysis, and autopsy (of a pig). Prerequisite: Biology and Chemistry. A third science (IPC or Physics for example) is recommended. Forensic Science can be taken concurrently with the third unit of science.

**935 Principles of Technology - 1 cr.**

Students will conduct laboratory and field investigations and use scientific methods. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time. Prerequisite: Algebra I; Biology, IPC, and an advanced Science.

**HEALTH EDUCATION**

**651 Health Education – ½ cr.**

Designed to give students a basic foundation of general and specific health knowledge that should enable them to live a fuller and healthier life. Included in this course are units on emotional and mental health, nutrition, drug abuse, CPR, first aid, communicable disease, environmental health, and human sexuality. Principles of Health Science (9601) can be substituted for Health Education.



## **PHYSICAL EDUCATION**

### **6012 Boys Individual Sports – ½ cr.**

Students are expected to participate in a wide range of individual sports that can be pursued for a lifetime. Health related fitness is emphasized.

### **6022 Boys Team Sports – ½ cr.**

Students will develop health related fitness and an appreciation for team work and fair play.

### **6141-6142 Inclusion P.E. – ½ cr.**

Course focuses on the improvement of basic life skills and activities. The course also involves working with students who have physical and mental disabilities. ARD Recommendation

### **6212 Girls Individual Sports – ½ cr.**

Students are expected to participate in a wide range of individual sports that can be pursued for a lifetime. Health related fitness is emphasized.

### **6222 Girls Team Sports – ½ cr.**

Students will develop health related fitness and an appreciation for team work and fair play.

## **ATHLETICS**

603	Football Study Hall	10-12	1	Coach Approval
6041-47	Football	9-12	1	Coach Approval
6051-58	Basketball Boys	9-12	1	Coach Approval
6061-68	Soccer Boys	9-12	1	Coach Approval
6071-78	Baseball Boys	9-12	1	Coach Approval
6081-88	Golf Boys	9-12	1	Coach Approval
6091-98	Beginning Tennis	9-12	1	Coach Approval
60901-08	Advanced Tennis	9-12	1	Coach Approval
6101-08	Cross Country	9-12	1	Coach Approval
6241-48	Volleyball Girls	9-12	1	Coach Approval
6251-58	Basketball Girls	9-12	1	Coach Approval
6261-68	Soccer Girls	9-12	1	Coach Approval
6271-78	Softball Girls	9-12	1	Coach Approval
6281-88	Golf Girls	9-12	1	Coach Approval
6301-06	Westernaires/Dance	10-12	1	Sponsor Approval
6311-18	Cheerleading	9-12	1	Elected Each Year
6551-58	Swimming	9-12	1	Coach Approval
6771-78	Trainer	9-12	1	Trainer Approval
6401-08	Track	9-12	1	Coach Approval

## **FINE ARTS**

### **711 Art I – 1 cr.**

Introductory art elements and principles of design and their application in such areas as drawing and painting.

### **712 Art II – 1 cr.**

Teaches the development of creativity and skills through advanced individual projects in familiar media and experimentation in new media. Teacher Recommendation

### **713 Art III – 1 cr.**

Students set individual goals and objectives in a variety of media through advanced projects and individual work in sculpture, painting, composition, and cultural art. Teacher Recommendation

### **714 Art IV – 1 cr.**

Personal goals and individual projects developed. Portfolios developed along the Advanced Placement Guidelines which includes a body of related works based on an individual's interest in a particular visual concern. Teacher Recommendation

**Placement in band is not permanent and will be reviewed every semester.**

### **721 Honors Band I, II, III, IV – 1 cr.**

Designed to challenge those students who have achieved the highest musical standards. Teacher Approval

### **722 Symphonic Band I, II, III, IV – 1 cr.**

Designed for those students with moderate musical experience. Teacher Approval

### **723 Concert Band A I, II, III, IV - 1 cr.**

Designed for those students who do not meet the criteria for placement in the Symph. or the Honors Band. Teacher Approval

### **724 Concert Band B I, II, III, IV - 1 cr.**

Designed for those students needing instruction in fundamental band concepts or those students who do not meet eligibility criteria for placement in the Concert Band "A", Symphonic Band, or Honors Band. Teacher Approval

### **725 Instrumental Ensemble – 1 cr.**

Students will receive instruction in all forms of popular music and will perform as a stage band. Teacher Approval

### **731 Choral Music Tenor/Bass Choir I, II, III, IV- 1 cr. (Male or very low vocal range)**

A choral ensemble for inexperienced singers with no audition required. Students will study and perform the Tenor/Bass choral repertoire. Students will develop basic vocal techniques, sight-reading, and music theory skills. Students will participate in all T.M.E.A. , U.I.L. activities, and NHS Concerts.

### **732 Choral Music I, II, III, IV (Concert Choir) – 1 cr.**

Emphasis on study of music theory, vocal technique, sight-reading, ear training, and choir ethics. Gives public concerts and participates in T.M. E.A. competition, music festivals, and all U.I.L. events. Audition

### **734 Vocal Ensemble (Ned & Co.) - 1 cr.**

Primary function is as a public relations group for entertainment of civic organizations, business functions, and other schools. Emphasis on ear training, vocal improvisation, choreography, solo and group vocal technique, and good stage presence. Also training in operation and maintenance of all sound equipment and other equipment used in rehearsal and performance. Audition

### **735 Treble Choir I, II, III, IV – 1 cr. (Female or very high vocal range)**

A choral ensemble for inexperienced singers with no audition required. Students will study and perform the treble choral repertoire. Students will develop the basic vocal technique, sight-reading, ear training, and choral ethics and music theory skills. Students will participate in all T.M.E.A., UIL activities and NHS Concerts.

### **736 Music Theory AP – 1 cr.**

Designed for those students who have extensive musical experience and are planning to take Music Theory on the college-level.

Aural, compositional, sight singing, and analytical skills will be developed. Teacher Recommendation

**741 Theatre Arts I – 1 cr.**

Beginning acting course. Various acting techniques, theatre etiquette and theatre appreciation will be the focus. Memorization of various literatures will be required.

**742 Theatre Arts II – 1 cr.**

Continued study of various acting techniques, theatre etiquette, and theatre appreciation. Experiences in public performance will be included. Teacher Recommendation

**743 Theatre Arts III – 1 cr.**

Continued study of acting with experiences in public performance. Teacher Recommendation

**744 Theatre Arts IV – 1 cr.**

Continued study of acting with experiences in public performance. Teacher Recommendation

**746 Technical Theatre – 1 cr.**

The study of all aspects of technical theatre. Set design and construction, costuming, prop making, stage makeup, lighting and sound design will be the major topics. Hands-on experiences. Must have completed Theatre Arts I at high school level. Teacher Approval

**747 Theatre Production – 1 cr.**

Advanced theatre course (audition required) for students with exceptional acting or technical ability to participate in play performance. U.I.L. One Act Play and one or more full-length productions will be done. Advanced technical skills in lighting, sound, set construction, and costume and makeup design will be required. Audition

**CAREER & TECHNICAL EDUCATION**

**9101 Principles of Business, Marketing & Finance – 1 cr.**

This introductory course touches on many aspects of business, including: business in the global economy, measuring economic activity, social responsibility of business, forms of business ownership, marketing basics and financial services, as well as considering the outlook for career choices.

**911 Principles of Agriculture, Food & Natural Resources – 1 cr.**

Enhances agricultural comprehension, agricultural career development, leadership, communications and personal finances. Including overview of soil and plants, animals, and agricultural construction.

**9161 Wildlife Fisheries & Ecology Management – 1 cr.**

Examines the importance of wildlife and outdoor recreation with emphasis on using wildlife and natural resources. Students will examine the management of game and nongame wildlife species, fish and aqua crops and their ecological needs. Also obtain their Hunter Safety Certification during this course if they pass their exam.

**9172 Practicum in Agriculture, Food and Natural Resources – 2 cr.**

This practicum is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, internships, or laboratories in the meat processing industry (Food processing). Principles of AFNR; Selection Rubric

**9173 Practicum in AFNR II - 2 cr.**

This second year practicum is designed to give students advanced supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experiences such as employment, internships, or laboratories in different aspects of the meat processing industry (food processing). Practicum in AFNR; Selection Rubric

**9180 Equine Science – ½ cr.**

Introduce students to the scientific principles of equine animal systems and to the equine industry. 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. The class can dissect a foal and can take trips to a hippo therapy stable.

**9182 Small Animal Management - 1/2 cr.**

Students will acquire knowledge and skills related to small animals and the small animal industry. Course addresses topics related to a variety of small mammals to prepare students for careers in the field of animal science. A beginning course for those students that are interested in a career in veterinary science or as a veterinary technician. The class will dissect a rat.

**919 Advanced Animal Science - 1 cr.**

Examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Allows for the application of scientific and technological aspects of animal science through field and laboratory experiences. Prepares students for careers in animal science by acquiring knowledge and skills related to animal systems. The class will dissect a goat, cat, and sheep brain. Prerequisite: Biology and Chemistry or IPC; Algebra I and Geometry; Small Animal Management or Equine Science. *Students can earn a Science Credit.*

**920 Instructional Practices/Peer Tutoring – 2 cr.**

Instructional Practices is a field- based (practicum) internship that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training practices. Students work under the joint direction and supervision of both a teacher and exemplary educators or trainers in direct instructional roles with elementary-, middle school-, and high school- aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, develop materials for educational environments, assist with record keeping, and complete other responsibilities of teachers, trainers, paraprofessionals, or other educational personnel. Student Interest Form & Rubric

**921 Principles of Human Services – 1 cr.**

Lab course focus on interpersonal skills, decision-making; and promote family strengths. Develops positive relationships with peers, child development and care. Addresses nutrition and dietary practices; food selection/preparation; budgeting/consumer-buying practices; and managing household budgeting and sewing needs; community and career roles.

**922 Fashion Design I – 1 cr.**

Lab course focuses on careers in fashion that span the textile and apparel industries. Develop an understanding of fashion textile, and apparel industries.

**923 Lifetime Nutrition & Wellness - ½ cr.**

This laboratory course allows students to use principles of lifetime wellness and nutrition to make informed choices that promote wellness and pursue careers related to hospitality, human services, and health sciences. Laboratory experiences focus on the integration of nutrition and wellness knowledge with basic food preparation and management skills.

**9251 Family and Community Services - 1 cr.**

This course is designed to involve students in realistic and meaningful community-based activities through direct service experiences. Students are provided opportunities to interact and provide to individuals, families, and the community through community or volunteer services.

**9261 Professional Communications - ½ cr.**

An introduction to speech communication intended to bridge the gap between school and the business world. The course teaches students to take responsibility, express themselves, and handle problems and decisions when they arise.

**9263/9264 Career Preparation I/II Practicum - 3 cr.**

This practicum provides occupationally specific training that focuses on the development of careers in consumer services, early childhood development, counseling, nutrition, wellness, hospitality, food services, fashion/interior design, and family/community services. Recommended PBMF 16 yrs. of age. & Selection Rubric

**9265 Principles of Arts, A/V Technology & Communications – 1cr**

This is an introductory course to the Arts, A/V Technology & Communications career cluster. Students will develop an understanding of the many career opportunities in this cluster and develop the knowledge and skills required to meet those opportunities. This cluster focuses on writing, designing, producing, performing, and publishing multimedia content in the fields of: visual and performing arts, arts and design, video journalism, entertainment and filmmaking. Students acquire skills in learning to use PowerPoint, and Google Slides, plus the Adobe Creative Suite including Photoshop, Premiere Pro, and more.

**9267 Audio Video Production I - 1 cr.**

Students will learn the use of video technology and apply it through the creation of cinematic and video journalism projects. Students will learn and be required to operate many types of video and audio capture equipment, then use editing and finishing equipment to publish an audio/video presentation. Students will become well-versed in the artistic side as well as the technical aspects of video creation. They will learn narrative structure, cinematic language, and the importance of media in shaping thought and culture. Students use Adobe Creative software such as Premiere Pro, Photoshop, Audition, and more. This course also meets the Technology Applications graduation requirement. Selection Rubric

**9269 Audio Video Production II w/ lab - 2 cr.**

Careers in audio-video technology, film production, and broadcast journalism span all aspects of A/V & Communications industry. Building upon the concepts taught in A/V Production I, the students will develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. Students produce a weekly NHS news program called N-Vision and learn techniques and skills to traverse social media platforms, including YouTube. Students use the Adobe Creative Suite products such as Premiere Pro, Photoshop, Audition, and more. Audio Video Production I and Selection Rubric

**9271 Child Development – 1 cr.**

This course addresses knowledge and skills related to child growth and development from prenatal through school-age children. Students will be equipped with child development knowledge that can be used to promote the well-being and healthy development of children and to investigate careers related to the care and education of children.

**9281 Introduction to Culinary Arts -1 cr.**

This classroom and laboratory based course will provide insight into the operation of a well-run restaurant, food production skills, industry management, and hospitality skills. The course is an introductory course for students pursuing a career in the hospitality industry. Students can pursue appropriate industry certifications. Recommended Lifetime, Nutrition, and Wellness

**9282 Culinary Arts – 2 cr.**

This laboratory-based program begins with the fundamentals and principles of the art of cooking and the science of baking and includes management and production skills and techniques. Students can pursue a national sanitation certification or other appropriate industry certifications. The knowledge and skills required for careers in the restaurant, food, and beverage industry are practiced. Intro to Culinary Arts

**929 Dollars and Sense – ½ cr.**

Focuses on consumer practices and responsibilities, money management processes, decision making skills, personal and family financial planning, including maintaining a budget, expense records, and economic self-sufficiency, evaluate and compare employment options, including salaries and benefits, identify types of taxes at the local, state, and national levels and the economic importance of each.

**930 Law Enforcement I – 1cr.**

Law Enforcement I 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.

**931 Law Enforcement II – 1 cr.**

Provides knowledge necessary to prepare for a career in law enforcement. Includes ethical & legal responsibilities, operation of police and emergency telecommunication equipment and courtroom testimony. Law Enforcement I

**9321 Principles of Law, Public Safety, Corrections, and Security – 1 cr.**

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

**933 Court Systems and Practices - 1 cr.**

Overview of Federal and State Court systems. The course identifies the roles of Judicial Officers and the trial processes from pretrial to sentencing and examines types and rules of evidence. Emphasis on constitutional laws for criminal procedures such as search & seizure, stop and frisk.

**934 Forensic Science – 1 cr.**

A combination of biology, chemistry and physics will be applied to techniques used in the forensic science field. Students will learn the basics of crime scene analysis and apply the various sciences behind solving crimes through hands-on experiments. Examples of units include examining DNA evidence, applications of anthropology, trace evidence analysis, and autopsy (of a pig). Prerequisite: Biology and Chemistry. A third science (IPC or Physics for example) is recommended. Forensic Science can be taken concurrently with the third unit of science.

**935 Principles of Technology - 1 cr.**

Students will conduct laboratory and field investigations and use scientific methods. Various systems will be described in terms of space, time, energy, and matter. Students will study a variety of topics that include laws of motion, conservation of energy, momentum, electricity, magnetism, thermodynamics, and characteristics and behavior of waves. Students will apply physics concepts and perform laboratory experimentations for at least 40% of instructional time. Prerequisite: Algebra I; Biology, IPC, and an advanced Science.

**9401 Automotive Basics - 1 cr.**

Students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. Students will study basic automotive systems and the components that make up each system and how to service them. Students will learn safety/environmental rules, tool identification, proper tool use, and employability skills. This course is an introductory course to the automotive program.

**9412-Introduction to Welding - 1 cr.**

An introduction to welding processes. First year instruction includes industrial safety and health practices, hand tool and power machine use, measurement, welding shop operating procedures, blueprint reading, cutting and welding with oxygen and gas fuels, shielded metal arc welding, gas tungsten arc and gas metal arc welding processes. Students will gain knowledge and skills related to welding technologies required for entry level employment in welding industries.

**9421 Welding I – 2 cr.**

Instruction is designed to provide job-specific training for entry-level employment in welding careers. Second year welding instruction enhances job-specific training for employment in welding careers. Students expand welding skills by adding plasma arc cutting and flux cored arc welding principles. Students can pursue appropriate welding certifications. Introduction to Welding

**9431 Automotive Technology I: Maintenance & Light Repair - 2 cr**

Students gain knowledge of major automotive systems and the principles of diagnosing and servicing these systems. Students will gain skills in shop safety, tool identification, proper tool use, automotive diagnosis, maintenance and repair, and employability in the automotive industry. Automotive Basics

**9441 Automotive Technology II: Automotive Service – 2 cr.**

Advanced automotive course. Students expand their knowledge of the major automotive systems and pull codes to diagnose automotive systems problems. Automotive skills and knowledge enhance opportunity for employability in the automotive repair industry. Students can pursue appropriate ASE certifications. Automotive Technology I: Maintenance and Light Repair

**9451 Cosmetology I – 3 cr.**

Co-enrollment with Lamar State College in Port Arthur. Provides students with basic specific classroom training to achieve their Texas Cosmetology License. Students work on outside clientele for hands-on training and are expected to purchase their beginners kit during the first week of school and are required to have completed 500 clocked hours before advancing to Cosmetology II. Selection Rubric

**9461 Cosmetology II – 3 cr.**

Co-enrollment with Lamar State College in Port Arthur. Upon completion of their senior year, the required 1500 hours total, students will have received classroom training in preparation for the Cosmetologist Exam from the Texas Department of Licensing and Regulations. Students work on outside clientele for hands-on training. Cosmetology I. Selection Rubric

**9471 Welding II – 2 cr.**

Advanced Welding course that builds on the knowledge and skills developed in Welding I. Students can pursue appropriate welding certifications. Welding I

**948 Process Operating Technology – 2 cr.**

Co-enrolled @ LSCPA. Students can earn 7 college hours towards Process Operating Technology. 1<sup>st</sup> Semester PTAC 1302-Introduction to Process Technology; 2<sup>nd</sup> Semester PTAC 1410-Process Technology I- Equipment. Introductory courses that prepare students to become a process operator in the refining, petrochemical, power generation, oil and gas production, food and other process industries.

**949 Metal Fabrication and Machining I – 2cr.**

The course provides the knowledge and skills required for equal employment opportunities in the metal fabrication industry. Students have opportunities to reinforce, apply, and transfer knowledge and skills to a variety of settings and problems. Welding II.

**9502 Principles of Construction – 1 cr.**

Students gain knowledge and skills that lay a strong foundation for those entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, and common hand and power tools. Students will learn skills for basic construction in framing, electrical, sheetrock, cabinet installation, and basic plumbing. Students can earn NCCER CORE Safety Certification.

**9502D Principles of Construction-Dual Credit – 1 cr.**

Students will earn 3 credits towards the HVAC Certificate or Associates Degree in HVAC. HART 1303. A basic study of HVAC and refrigeration controls; troubleshooting of control components; emphasis on use of wiring diagrams to analyze high and low voltage circuits; a review of Ohm's law as applied to air conditioning controls and circuits.

**9503 Construction Technology I/Electrical Apprenticeship – 2cr.**

Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing to enter the workforce in the construction industry. Students can earn and qualify for the Beaumont Electrical Joint Apprenticeship program.

**9505C HVAC Technology I – 1 cr.**

A dual enrollment semester course with Lamar SCPA. Students will earn 3 credits towards the HVAC Certificate or Associates Degree in HVAC. HART 1301 HVAC basic electricity. Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation. Students will learn to apply Ohm's law to electrical calculations.

**9506 HVAC Technology II – 2 cr.**

A dual enrollment semester course with Lamar SCPA. Students will earn 3 credits towards the HVAC Certificate or Associates Degree in HVAC. HART 1345. Study of the procedures and principles used in servicing heating systems including gas fired furnaces and electric heating systems. Identify different types of gas furnaces; identify and describe component operation of gas furnaces; service and troubleshoot gas furnaces; perform safety inspections on gas and electric heating systems; identify unsafe operation of gas furnaces; identify and discuss component operation of electric heating systems; and service and troubleshoot electric heating systems. HVAC I

**9511 Principles of Applied Engineering – 1 cr**

Provides an overview of the various fields of science, technology, engineering, and mathematics through the use of modular laboratories. Students use a variety of computer hardware and software applications to complete assignments and projects. Students will work in design teams to develop a product or system, and use multiple software applications to prepare and present course assignments, relative to communication, energy, aerospace, and more.

**953 Engineering Design and Presentation I – 1 cr.**

Students will demonstrate 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 explore career opportunities in engineering, technology, and drafting and what is required to gain and maintain employment in the areas. Algebra I and Principles of Applied Engineering.

**9533 Engineering Design & Presentation II - 2 cr.**

This course will provide students the opportunity to master several computer software applications in a variety of engineering and technical fields. This course further develops the process of engineering thought and application of the design process. The student will participate in the organization and operation of several real or simulated engineering projects; develop a plan for production of an individual product; and demonstrate principles of project documentation and workflow. Engineering Design & Presentation I

**9534 Robotics I – 1cr.**

Students will transfer academic skills to component designs in a project-based environment through the implementation of the design project. Students will build prototypes or use simulation software to test their designs. Students will explore career opportunities,

employer expectations, and educational needs in the robotics and automation industry.

**9535 Robotics II – 1 cr.**

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. Robotics I

**960 Health Science Theory – 1 cr.**

This course is designed for the development of advanced knowledge and skills related to a wide variety of health careers and diseases. Students will employ hands-on experiences for continued knowledge and skill development as well as further their knowledge of illnesses and treatments.

**9601 Principles of Health Science – 1 cr.**

This course will introduce students to healthcare careers, medical insurance, legal/ethical issues in healthcare, and normal human lifespan development. Students will learn the basics of each body system, some common medical disorders, and the fundamentals of taking vital signs and CPR. (Counts as Health credit)

**962 Practicum in Health Science w/ extended Practicum: CNA –3 cr.**

Designed to provide knowledge and skills for certification or licensing as a Certified Nurse Aide. Students develop advanced clinical skills for employment in the healthcare industry. To assure students eligibility for the Texas Department of Health nurse's aide licensing, both school-based and long-term care facility training is provided. Students work in hospitals/nursing homes 4 days a week; attend class one day a week during CNA training. Health Science Theory, Selection Rubric

**9625 Practicum in Health Science: CPCT/A – 2 cr.**

The Practicum in Health Science course is designed to give students practical application of knowledge and skills to attain the Certified Patient Care Technician / Assistant certification from the National Healthcare Association. Advanced concepts of caring for basic patient needs are taught both in the classroom and skills lab, and the students are introduced to phlebotomy and the fundamentals of EKG interpretation. Health Science Theory, Selection Rubric

**9531 Anatomy & Physiology Honors – 1 cr.**

Essential principles of human anatomy and physiology are presented, including basic chemistry, cell and tissue, the integument, skeletal, muscular and nervous systems, the structure and function of the human body and mechanisms for maintaining homeostasis with it. Prerequisites: Biology and Chemistry I Pre-AP. Student must have an A-B average in previous science courses. Teacher Recommendation (both Biology & Chemistry)

**9631 Medical Terminology – 1 cr.**

Course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, and medical abbreviations. Students will gain knowledge of medical vocabulary of words and disorders commonly seen in medical charts and frequently used in patient care.

**972 Banking & Financial Services - ½ cr.**

Students develop knowledge and skills in the economic, financial, technological, international, social, and ethical aspects of banking to become competent consumers, employees, and entrepreneurs.

**974 Accounting I – 1 cr.**

Students investigate the field of accounting including how it is impacted by industry standards, economic, financial, technological, international, social, legal, and ethical factors.

**975 Accounting II – 1 cr.**

Students continue investigation of accounting, including how it is impacted by industry standards, economic, financial, technological, international, social, legal, and ethical factors. Students engage in managerial and cost accounting activities, formulate and interpret financial information for use in management decision making for corporations. Accounting I

**980 Business English – 1 cr.**

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. *Note: This course satisfies the English IV credit requirement for students on the Foundation High School Program.* English III



**981 Business Information Management I – 1 cr.**

Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and make successful transition to the workforce and post-secondary education. Students will apply technical skills through word- processing, spreadsheet, database, and electronic presentation software. (Microsoft Office 2016) counts as computer credit.

**9812 Business Information Management II – 1 cr.**

Students apply technical skills to address business applications of emerging technologies, create complex word processing, develop sophisticated spreadsheets using charts and graphs, and make an electronic presentation using appropriate multimedia software.

**9831 Practicum in Business Management w/extended Practicum – 3 cr.**

Practicum experiences occur in a paid community based work site application. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society to make a successful transition to the workforce or post-secondary education. Selection Rubric and Recommended PBMF

**9841 Practicum in Marketing w/ extended Practicum - 3 cr.**

Students gain skills to be proficient in one or more of the marketing functions. Students will integrate skills from academic subjects, information technology, interpersonal communication, and management training to make responsible decisions. Selection Rubric and Recommended PBMF

**9851 Practicum in Marketing II w/extended Practicum – 3 cr.**

Students gain a real world working knowledge of the marketing concepts through application. This class is partial classroom instruction and partial community work site application. Students secure a job for the entire school year, which is evaluated by the classroom instructor and their work supervisor. Students at least 16 years, are required to work a minimum of 15 hours per week, with 10 hours worked Monday-Friday and the job must be in marketing, sales, or retail. Problem solving skills, higher-level thinking, and work application techniques are enhanced through class format. Enrichment activities include special projects, guest speakers, and field trips. Students get paid for their job and receive classroom credit. Practicum in Marketing w/ Extended practicum & Selection Rubric

**9931 Vocational Adj. Co-op I - 1-4 cr.**

A job-specific course that includes concepts and skills necessary to prepare students to enter the world of work. Students prepare for future employment by building successful work experience while enrolled in high school. Students will be provided opportunities for successful employment experiences and will assist students in achieving maximum benefits from services provided by the state's rehabilitation agency and other social services or educational agencies after graduation. Placement contingent upon Teacher Approval of job placement. ARD Recommendation

# Nederland High School CTE Course Sequences

CTE courses that are fundamental courses for all programs of study: Professional Communications and BIM I

Agriculture, Food, & Natural Resources	Architecture & Construction	Arts, A/V Technology & Communication	Business Management & Administration	Education & Training	Finance	Health Science
Principles of AFNR	Principles of Construction	Professional Communications – 1/2	Principles of Business, Marketing, & Finance	Instructional Practices	Principles of Business, Marketing, & Finance	Principles of Health Science
Wildlife & Fish Management	Construction Technology I Electrician Apprenticeship	Principles of Arts, A/V Tech & Communication	BIM I		Banking & Financial Services – ½	Medical Terminology
Equine Science – ½	HVAC Technology I	Audio Video Production I	** BIM II		Accounting I	Health Science Theory
Small Animal Management – ½	HVAC Technology II	** Audio Production II w/ Lab	** Business English		** Accounting II	** Anatomy & Physiology
** Advanced Animal Science		Fashion Design I	** Practicum in Business Management w/ext. prac.			** Practicum in Health Science – CPCT/A certification
** Practicum AFNR						** Practicum in Health Science w/ ext. prac. – CNA certification
** Practicum AFNR II						
Hospitality & Tourism	Human Services	Law, Public Safety, Corrections, & Security	Manufacturing		Marketing	STEM
Lifetime, Nutrition, & Wellness – ½	Principles of Human Services	Principles of Law, Public Safety, Corrections, & Security	Introduction to Welding	Principles of Business, Marketing, & Finance	Principles of Applied Engineering	Automotive Basics
Introduction to Culinary Arts	Lifetime, Nutrition, & Wellness – ½	Court Systems & Practices	Welding I	** Practicum in Marketing I w/ ext. prac.	Robotics I	** Automotive Technology I: Maintenance & Light Repair
Culinary Arts	Family & Community Services	Law Enforcement I	Welding II	** Practicum in Marketing I w/ ext. prac.	** Robotics II	** Automotive Technology II: Automotive Service
	Dollars & Sense – ½	** Law Enforcement II	Process Operating Technology- LSCPA		** Engineering Design & Presentation I	
	Child Development	** Forensic Science			** Engineering Design & Presentation II	
	Career Preparation I w/ ext. prac.				Principles of Technology	
	Career Preparation II w/ ext. prac.					
	Cosmetology I - LSCPA					
	Cosmetology II – LSCPA					

# **Nederland High School Career & Technical Education**

offers the following

## **Industry-Based Certifications**

Certified Nurse Aide (CNA)

Patient Care Technician (PCT)

NCCER Core

NCCER Welding I

AWS D1.1 Structural Steel

Cosmetology Operator License @ LSCPA

Microsoft Office Specialist - Word

Intuit QuickBooks Certified User

ServSafe Manager

ASE Entry-Level Brakes (BR)

## **Dual Enrollment at LSCPA**

Cosmetology I

Cosmetology II

Process Operating Technology

HVAC-Heating, Ventilation, and Air Conditioning

## **Electrician Pre-Apprenticeship Program**

This program is in partnership with Beaumont Electrical J.A.T.C. in Nederland, Texas. Senior students will take the 1st course of the apprenticeship in high school. Upon successful completion of the DC Theory course students have the opportunity to attend a six-week mini course at the training center after graduation. If the student successfully completes the mini-course, then they can apply to enter the apprenticeship. Once accepted, the student will receive credit for the first year of the five-year program. While in high school, the course and supplies are FREE! STUDENTS WHO ENTER THE APPRENTICESHIP AFTER HIGH SCHOOL WILL BE EMPLOYED FULL TIME AND GOING TO TRAINING TWO DAYS EACH MONTH! EARNING \$ WHILE YOU LEARN!

## **CTE Work-Based Learning**

### **STUDENT PROCEDURES FOR ACCEPTANCE AND ENTRANCE INTO WORK-BASED LEARNING (WBL):** **(Office Administration WBL, Marketing Education WBL, and Career Preparation WBL)**

1. Get student interest form from the wall displays in the CTE building or the Home Economics department.
  - Turn in student interest form to WBL teacher coordinator as soon as possible.
2. Seek and apply for a job. If job is located, tentatively accept the job, subject to teacher approval. Job will be for entire school year. Please inform employing person that this job must first be approved by the WBL teacher coordinator before final acceptance.
3. IMPORTANT: You must contact the teacher for job approval and acceptance into the WBL program. The WBL teacher coordinator will be in their classroom the first week of August.
4. The recommended prerequisite for all WBL courses is Principles of Business, Marketing & Finance.

**HEALTH CREDIT** - CTE course Principles of Health Science will count as Health Credit.

## ***PUBLIC NOTIFICATION OF NONDISCRIMINATION FOR CAREER & TECHNICAL EDUCATION***

### ***NEDERLAND INDEPENDENT SCHOOL DISTRICT OFFERS CAREER & TECHNICAL PROGRAMS IN SEVERAL OF THE 16 CLUSTERS:***

-AGRICULTURAL, FOOD & NATURAL RESOURCES  
-ARCHITECTURAL CONSTRUCTION  
-ARTS, A/V TECHNOLOGY & COMMUNICATION  
-BUSINESS, MANAGEMENT & ADMINISTRATION  
-EDUCATION & TRAINING  
-FINANCE  
-GOVERNMENT & PUBLIC ADMINISTRATION  
-HEALTH SCIENCE

-HOSPITALITY & TOURISM  
-HUMAN SERVICES  
-INFORMATION TECHNOLOGY  
-LAW, PUBLIC SAFETY, CORRECTIONS & SECURITY  
-MANUFACTURING  
-MARKETING  
-SCIENCE, TECH., ENGINEERING & MATHEMATICS  
-TRANSPORTATION, DISTRIBUTION & LOGISTICS ADMISSION TO THESE PROGRAMS IS

BASED ON INTEREST, APTITUDE AND GRADES.

IT IS THE POLICY OF NEDERLAND 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 AND TITLE IX OF THE CIVIL RIGHTS ACT OF 1964, AND SECTION 504 OF THE REHABILITATION ACT OF 1973, AS AMENDED.

NEDERLAND 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 EDUCATION AND CAREER AND TECHNICAL PROGRAMS.

**FOR INFORMATION ABOUT YOUR RIGHT OR GRIEVANCE PROCEDURES, CONTACT:**

**TITLE IX COORDINATOR,  
DR. STEVEN BEAGLE ASSISTANT SUPERINTENDENT  
220 N. 17<sup>TH</sup> STREET  
NEDERLAND, TX 77627  
TELEPHONE: (409) 724-2391**

**OR**

**SECTION 504 COORDINATOR,  
DEIDRE POWELL COORDINATOR OF PUPIL SERVICES  
220 N. 17<sup>TH</sup> STREET  
NEDERLAND, TX 77627  
TELEPHONE : (409) 724-2391**