

# **GANADO HIGH SCHOOL COURSE SELECTION GUIDE**



**2019-2020**





*Ganado*

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# Independent School District

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**Course Catalog Compiled by:**  
Manda Lesak  
**Ganado High School Counselor**

### **ASSURANCE OF NONDISCRIMINATION**

It is the policy of (Ganado ISD) not to discriminate on the basis of race, color, national Origin, sex, age or handicap in its vocational programs, services or activities as required by Title IX of the Civil Rights Act of 1964, as amended: Title IX of the Education Amendments of 1972: and Section 504 of the Rehabilitation Act of 1973, as amended.

Es norma de (Ganado ISD) no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades vocacionales, tal como lo repuieren eo T tulo VI de Ley de Deprechos Civiles de 1964, seg n emienda: el T tulo IX de las Emmiendas en la Educaci n, de 1972, y la Ley de Rehabilitaci n de 1973, seg n enmeinda

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# GRADUATION PLANS

Entered High School Prior to 2018-2019

## Foundation + Endorsements = 29 Credits

- **4 Credits English**- English I, II, III, one advanced English
- **4 Credits Mathematics**-Algebra I, Geometry, 2 credits in advanced math courses
- **4 Credits Science**- Biology, two credits in any advanced science course, one credit in IPC or in any additional advanced science course
- **4 Credits Social Studies**-US History, Government, Economics, World Geography & World History
- **2 Credits of LOTE**-Spanish I and Spanish II
- **1 Credit Physical Education**-PE, Athletics, or 2 Semesters of Marching Band
- **1 Credit Fine Arts**-Art I-IV, Music I-IV, or Floral Design
- **6 Elective Credits**  
\*Credit requirements specific to at least one endorsement
- **3 Additional Elective Credits** (Required locally by Ganado ISD)

## Distinguished Level of Achievement- 29 Credits

- **4 Credits English**- English I, II, III, one advanced English
- **4 Credits Mathematics**-Algebra I, Geometry, **Algebra II**, one credit in advanced math
- **4 Credits Science**- Biology, two credits in any advanced science course, one credit in IPC or in any additional advanced science course
- **4 Credits Social Studies**-US History, Government, Economics, World Geography & World History
- **2 Credits of LOTE**-Spanish I and Spanish II
- **1 Credit Physical Education**-PE, Athletics, or 2 Semesters of Marching Band
- **1 Credit Fine Arts**-Art I-IV, Music I-IV, or Floral Design
- **6 Elective Credits**  
\*Credit requirements specific to at least one endorsement
- **3 Additional Elective Credits** (Required locally by Ganado ISD)

\*The default graduation plan for Ganado High School students is FHSP DLOA with Multidisciplinary Endorsement

## Endorsements



### STEM

- Science
- Math
- \*Alg 2, Chemistry & Physics are required



### Business & Industry

- Ag, Food, & Natural Resources
- Hospitality & Tourism



### Public Service

- Education & Training



### Multidisciplinary

- 4 credits in each foundation subject including Eng 4, and Chemistry and/or Physics
- 4 credits in AP or dual credit (Eng, Math, Sci, SS, Economics, LOTE, Fine Arts)



### Fine Arts

- 4 credits in Art, Music
- 5 Social studies courses

## State Assessments Required For Graduation

English I	English II	Algebra I
Biology	US History	

## Performance Acknowledgements

**Outstanding Performance:** 12 hours Dual Credit (3.0 higher); Associate degree while in high school; Bilingualism/Biliteracy; College Board AP Exam Score of 3 or Higher; Outstanding performance on PSAT, ACT-PLAN, SAT or ACT

**Certification:** Nationally or internationally recognized business or industry certificate

# GRADUATION PLANS

Entering High School 2018-2019 and Beyond

## Foundation + Endorsements = 29 Credits

- **4 Credits English**- English I, II, III, one advanced English
- **4 Credits Mathematics**-Algebra I, Geometry, 2 credits in advanced math courses
- **4 Credits Science**- Biology, two credits in any advanced science course, one credit in IPC or in any additional advanced science course
- **3 Credits Social Studies**-US History, Government, Economics, World Geography or World History
- **2 Credits of LOTE**-Spanish I and Spanish II
- **1 Credit Physical Education**-PE, Athletics, or 2 Semesters of Marching Band
- **1 Credit Fine Arts**-Art I-IV, Music I-IV, or Floral Design
- **7 Elective Credits**  
\*Credit requirements specific to at least one endorsement
- **3 Additional Elective Credits** (Required locally by Ganado ISD)

## Distinguished Level of Achievement- 29 Credits

- **4 Credits English**- English I, II, III, one advanced English
- **4 Credits Mathematics**-Algebra I, Geometry, **Algebra II**, one credit in advanced math
- **4 Credits Science**- Biology, two credits in any advanced science course, one credit in IPC or in any additional advanced science course
- **3 Credits Social Studies**-US History, Government, Economics, World Geography or World History
- **2 Credits of LOTE**-Spanish I and Spanish II
- **1 Credit Physical Education**-PE, Athletics, or 2 Semesters of Marching Band
- **1 Credit Fine Arts**-Art I-IV, Music I-IV, or Floral Design
- **7 Elective Credits**  
\*Credit requirements specific to at least one endorsement
- **3 Additional Elective Credits** (Required locally by Ganado ISD)

\*The default graduation plan for Ganado High School students is FHSP DLOA with choice of AT LEAST one Endorsement

## Endorsements



### STEM

- Science
- Math
- \*Alg 2, Chemistry & Physics are required



### Business & Industry

- Ag, Food, & Natural Resources
- Hospitality & Tourism



### Public Service

- Education & Training



### Multidisciplinary

- 4 credits in each foundation subject including Eng 4, and Chemistry and/or Physics
- 4 credits in AP or dual credit (Eng, Math, Sci, SS, Economics, LOTE, Fine Arts)



### Fine Arts

- 4 credits in Art, Music
- 5 Social studies courses

## State Assessments Required For Graduation

English I	English II	Algebra I
Biology	US History	

## Performance Acknowledgements

**Outstanding Performance:** 12 hours Dual Credit (3.0 higher); Associate degree while in high school; Bilingualism/Biliteracy; College Board AP Exam Score of 3 or Higher; Outstanding performance on PSAT, ACT-PLAN, SAT or ACT

**Certification:** Nationally or internationally recognized business or industry certificate

# ENDORSEMENT OPTIONS

## Arts & Humanities

This endorsement requires completion of the FHSP and ONE of the following:

- A coherent sequence of 4 credits in Fine Arts from ONE or TWO disciplines of Art or Music
- Five social studies credits (the fifth credit is only offered through dual credit)



## Business & Industry

This endorsement requires completion of the FHSP and ONE of the following:

- A coherent sequence of 4 CTE credits, including:
  - At least 2 courses in the same career cluster, and
  - At least 1 advanced CTE course that is the 3<sup>rd</sup> course or higher in a sequence in one of the following career clusters:
    - Agriculture, Food & Natural Resources
    - Hospitality
    - Information Technology



## Multidisciplinary:

This endorsement requires completion of the FHSP and at least ONE of the following:

- Four (4) credits in each of the four foundation subject areas of English Language Arts, Math, Science, and Social Studies, including English 4 (academic or dual credit), and chemistry and/or physics
- Four (4) Dual Credit course credits selected from English Language Arts, Math, Science, Social Studies, Languages other than English, and/or Fine Arts



## Public Service

This endorsement requires completion of the FHSP and ONE of the following:

- A coherent sequence of 4 CTE credits, including:
  - At least 2 courses in the same career cluster, and
  - At least 1 advanced CTE course that is the 3<sup>rd</sup> course or higher in a sequence in the following cluster:
    - Education & Training



## STEM

A Science, Technology, Engineering, Math endorsement requires completion of the FHSP including Algebra II, Chemistry, Physics, and ONE of the following:

- Successful completion of 2 additional math courses for which Algebra II is a prerequisite
- OR**
- Successful completion of 2 additional sciences beyond Biology, Chemistry, and Physics



# ENDORSEMENT ELECTIVE OPTIONS

All elective coursework is subject to enrollment/staff availability, \* denotes advanced course within the career cluster

## Arts & Humanities

### **FINE ARTS-ART**

Art 1  
Art 2  
Art 3  
Art 4

### **FINE ARTS-MUSIC**

Band I  
Band II  
Band III  
Band IV

### **5 Social Studies Credits**

Special Topics in Advanced SS  
Psychology (Dual Credit .5 credit)  
Sociology (Dual Credit .5 credit)  
Financial Literacy (.5 credit)

## Public Service

### **Education & Training**

Principles of Education & Training  
Child Development or Human  
Growth & Development  
Instructional Practices (2 credits) \*

## Business & Industry

### **Agriculture Science**

Plant Option:

Principles of Ag  
Floral Design (Fine Art)  
Horticulture Science\*  
Advanced Plant & Soil Science\*

Shop Option:

Principles of Ag  
Intro to Process Technology  
Ag Mech & Metal  
Ag Equip Design & Fabrication\*  
Ag Power Systems (2 credits)\*

## **Architecture & Construction**

(Courses taken at Mid-Coast  
Construction Academy, application  
required)

Principles of Construction  
Electrical I\*  
Electrical II\*  
Plumbing I\*  
Plumbing II\*

## **Arts, A/V Technology & Communications**

Principles of Art, Audio/Video  
Technology & Communications

## **Business Management & Administration**

Business Information  
Management (BIM)

## **Information Technology**

Computer Maintenance  
Computer Programming 1  
Computer Programming 2\*  
Computer Technician Practicum (2  
credits) \*

## **Hospitality**

Principles of Human Services  
Intro to Culinary Arts  
Culinary Arts (2 credits) \*

## **STEM (Alg 2, Chemistry & Physics Required)**

### **Math Option**

Algebra I, Geometry, Algebra 2

### **Choose 2 additional advanced math courses:**

Pre-Calculus  
AP Calculus  
WCJC Math 1314-College Algebra  
WCJC Math 1324-Business Math  
WCJC Math 1342- Statistics  
WCJC Math 1325-Business Calculus

### **Science Option**

Biology, Chemistry, Physics,

### **Choose 2 additional science electives**

Anatomy & Physiology\*  
Advanced Plant & Soil Science\*  
Forensic Science\*

## **Multidisciplinary**

### **Credits must include:**

English 4  
Chemistry and/or Physics

### **For Distinguished:**

Algebra 2

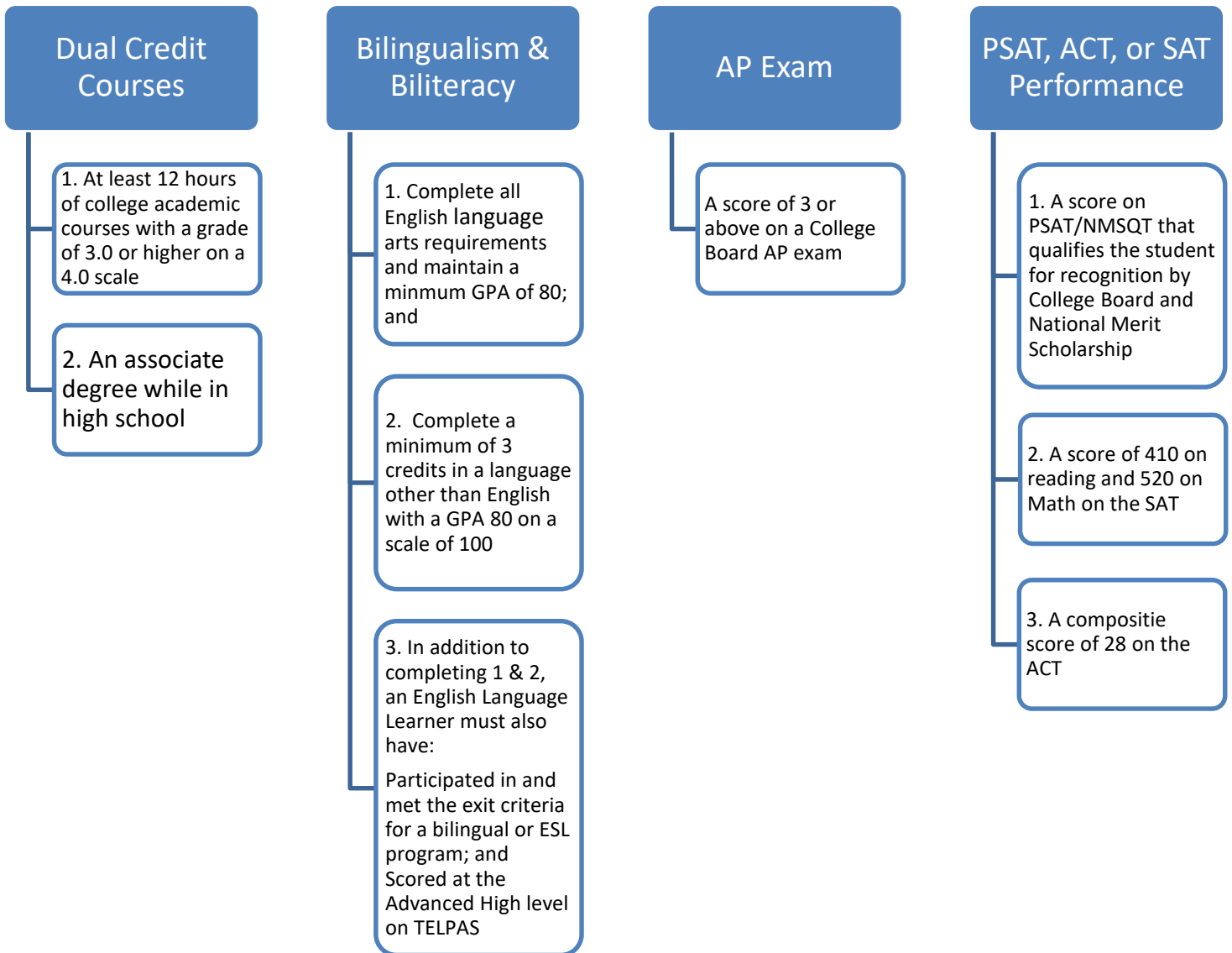
## **Additional Electives:**

Applied Math for Technical  
Professionals  
Career Prep I  
Extended Career Prep  
Math for Medical Professionals



# PERFORMANCE ACKNOWLEDGEMENTS

Ganado ISD students may earn a performance acknowledgement for outstanding performance in the following areas:



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

# DUAL CREDIT OPPORTUNITIES

## WHAT IS DUAL CREDIT?

Dual credit is a process through which a student may earn high school credit for successfully completing a college course that provides advanced academic instruction beyond, or in greater depth than, the Texas Essential Knowledge and Skills (TEKS) for a corresponding high school course. The “dual credit” earned is a college credit and high school credit for one course. The grade earned in the college course will remain a part of the student’s college transcript. **The student is responsible for verifying transferability of course credit to the college/university of their choice.**

Traditional dual credit course offerings listed in this guide will be given advanced weight (additional 20 points) and will be included in class rank and GPA calculations. (See policy EIC local)

## WHO IS ELIGIBLE TO ENROLL IN A DUAL CREDIT COURSE?

Students who are (TSI) Texas Success Initiative Complete or TSI Exempt.

Students should contact their school counselor to obtain assessment information.

## ARE SCHOLARSHIPS AVAILABLE?

Currently, scholarships for partial tuition are available through the Ganado Education Foundation. Students may contact Cindy Bacak for more information.

## TUITION/FEEES/BOOKS

Tuition and Fees are the student’s responsibility. Books will be provided by the district.

## REGISTRATION

The student must provide the following when registering for dual credit courses:

- ✓ Completed WCJC Apply Texas Application ([www.applytexas.org](http://www.applytexas.org))
- ✓ Completed WCJC Certificate of Early Admission Form (<https://www.wcjc.edu/Programs/dual-credit.aspx>)
- ✓ Request an Official high school transcript with STAAR scores be sent to WCJC and any SAT or ACT scores or assessment for TSI requirement
- ✓ Submit Bacterial Meningitis Documentation
- ✓ New dual credit students must attend a mandatory dual credit Information session with the counselor
- ✓ Sign a dual credit contract from the counselor’s office

# DUAL CREDIT OPPORTUNITIES

HIGH SCHOOL COURSE	COLLEGE COURSE
<b>English</b>	
English 4 (1 <sup>st</sup> semester) ½ credit	ENGLISH 1301 Composition 1
English 4 (2 <sup>nd</sup> semester) ½ credit	ENGLISH 1302 Composition 2
<b>Math</b>	
Independent Study in Math ½ Credit (Advanced Math)	MATH 1314 College Algebra MATH 1324 Business Math MATH 1342 Elementary Statistics MATH 1325 Business Calculus
<b>Social Studies</b>	
U.S. History (1 <sup>st</sup> semester) ½ credit	US HIST 1301
U.S. History (2 <sup>nd</sup> semester) ½ credit	US HIST 1302
Government (1 <sup>st</sup> semester) ½ credit	GOVT 2305 Federal Government
Economics ½ credit	ECON 2301 Principles of Macroeconomics
Special Topics in Adv. Social Studies ½ credit	GOVT 2306 State Government
Psychology ½ credit	PSYCH 2301 General Psychology
Sociology ½ credit	SOCI 1301 Intro to Sociology

# **2019-2020**

# **Course Descriptions**

**\*Please note: Course offerings may change at any time due to district and staffing needs.\***

## English Language Arts

### **English I (2 semesters)**

**PEIMS # 03220100**

**Grade 9**

**1 credit**

Students of English 1 will practice all forms of writing to persuade, report, describe, and narrate. Students will read extensively in multiple genres from world literature: short stories, dramas, novels, and poetry. The course focuses on the study of literary forms and terms associated with selected texts so students can become aware of the impact these literary techniques have on critical reading and effective writing.

### **English I Honors (2 semesters)**

**PEIMS # 03220100**

**Grade 9**

**1 credit**

**Prerequisite:** *A or B in previous course*

This class is designed for highly motivated academic students who are preparing to take the English AP course and dual credit courses offered junior/senior year. The student should enter with advanced reading ability and the ability to work two to three years ahead of grade level. Students will be expected to work on coursework outside of class time.

### **English II (2 semesters)**

**PEIMS # 03220200**

**Grade 10**

**1 credit**

Students will practice all forms of writing placing emphasis on persuasive forms of writing such as logical arguments, expressions of opinion, and personal forms of writing. This may include a response to literature, a reflective essay, or personal narrative. Students will read extensively in multiple genres from world literature including short stories, dramas, novels, and poetry. Students will learn literary forms and terms associated with selections.

### **English II Honors (2 semesters)**

**PEIMS # 03220200**

**Grade 10**

**1 credit**

**Prerequisite:** *A or B in previous English course*

This class is designed to prepare the highly language proficient student for the AP classes offered at the junior and senior level. The student should enter with an advanced level reading ability because the main emphasis is placed on a fast-paced analysis of English language and literature using a variety of multi-cultural, college-level texts. Students will be expected to work on coursework outside of class time.

### **English III (2 semesters)**

**PEIMS# 03220300**

**Grade 11**

**1 credit**

Students enrolled in English III further increase and refine their communication skills through writing error-free compositions of all types, including a research paper. The course includes an overview of American Literature from the seventeenth century to the present.

**AP English 3****PEIMS #A3220100****Grade 11****1 credit**

**Prerequisite:** *Achieves meets or masters level on English 2 EOC, achieves the college ready benchmark on the PSAT, or is recommended by an English teacher*

AP Language and Composition emphasizes the analysis of a variety of literary and nonfiction texts with particular attention to the writer's style, diction, syntax, argumentation and logic. Students reflect this analysis in compositions that use sophisticated syntax and vocabulary, effective use of proof, and control of the conventions of language. Emphasis is on wide reading and analytic response in timed essays in preparation for the Advanced Placement Examination in Language and Composition. Students will take the AP College Board Exam at the end of the year.

**English IV (2 semesters)****PEIMS # 03220400****Grade 12****1 credit**

English IV consists of skills-based units that emphasize British Literature and equip students with the communication and thinking skills essential for success in social, academic, and business situations. Students will complete college driven writing assignments that support success on the SAT, ACT and the TSIA.

**English IV Dual Credit (First Semester)****English 1301****PEIMS # 03220400-D****PREREQUISITE:** *Must have a TSI Waiver or be TSI Exempt in Reading/Writing***½ credit**

Intensive study of and practice in writing processes, from invention and researching to drafting, revising, and editing, both individually and collaboratively. Emphasis on effective rhetorical choices, including audience, purpose, arrangement, and style. Focus on writing the academic essay as a vehicle for learning, communicating, and critical analysis.

**English IV Dual Credit (Second Semester)****English 1302****PEIMS # 03220400-D****PREREQUISITE:** *Must have a TSI Waiver or be TSI Exempt in Reading/Writing***½ credit**

Intensive study of and practice in the strategies and techniques for developing research-based expository and persuasive texts. Emphasis on effective and ethical rhetorical inquiry, including primary and secondary research methods; critical reading of verbal, visual, and multimedia texts; systematic evaluation, synthesis, and documentation of information sources; and critical thinking about evidence and conclusions.

## Fine Arts

### **Applied Music I-IV**

**PEIMS # 03152500 (I), 03152600 (II), 03152601 (III), 03152602 (IV)**

**Grades 9-12**

**1 credit**

This course is open to current band students interested in furthering their skills on their musical instrument. Students must be approved by the band director to take these courses.

### **ART I-IV**

**PEIMS # 03500100 (Art I), 03500200 (Art II), 03500300 (Art III), 03500400 (Art IV)**

**Grades 9-12**

**1 credit**

These courses introduce the student to the world of visual art. These courses emphasize drawing, design, color theory and three-dimensional art. The student is also exposed to contemporary, multicultural, and historic images as well as career possibilities in art. The courses must be taken in sequential order.

### **Band I-IV (2 semesters)**

**PEIMS # 03150100(Band I) #03150200 (Band 2)**

**# 03150300 (Band 3) #03150400 (Band 4)**

**Grades 9 – 12**

**1 credit, ½ PE credit (Band 1 & 2 Only)**

***Prerequisite: Successful completion of Junior High Band or Director Approval***

Students will study and apply musical performance techniques and will participate in Marching from the beginning of August until the last football game. Individual practice and competitions for district, regional, area, and state contests for UIL Solo and Ensemble will be stressed.

### **Floral Design**

**PEIMS # 13001800**

**Grade: 10-12**

**1 credit**

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

## Languages Other than English

**Spanish I** (2 semesters)

**PEIMS # 03440100**

**Grades 10-11**

**1 credit**

This is an entry level course designed for the development of the four language skills: listening, speaking, reading and writing with emphasis on oral proficiency. Students will increase their understanding of Hispanic culture.

**Spanish II** (2 semesters)

**PEIMS #03440200**

**Grades 10-12**

**1 credit**

**Prerequisite:** Spanish I

Extends language competency in a proficiency-oriented curriculum in listening, speaking, reading, and writing. Reviews and refines grammatical concepts. Extends student knowledge of the culture and civilization associated with the Spanish language.

**Spanish III** (2 semesters)

**PEIMS #03440300**

**Grade 12**

**1 credit**

**Prerequisite:** Spanish II

*(This course receives honors weighted points)*

Promotes student understanding of principal literary genres, historical periods, and geographical areas of Spanish-speaking countries. Provides college-level learning experiences for students who wish to prepare for The College Board Advanced Placement Examination

## Mathematics

**Algebra I** (2 semesters)

**PEIMS # 03100500**

**Grades 9**

**1 credit**

Students will build on the foundation concepts of mathematics. The course will include algebraic thinking and underlying mathematical processes

**Geometry** (2 semesters)

**PEIMS # 03100700**

**Grades 9-11**

**1 credit**

**Prerequisite:** Algebra I

Students will be using the basic concepts of point, line, and plane, a deductive system is formulated to draw the relationships involving plane and solid geometric figures. The course also develops the students' ability to reason abstractly and creatively following the rules of a deductive system. It introduces basic concepts involving measurement.



**Geometry Honors (2 semesters)**

**PEIMS # 03100700-H**

**Grade 9-10**

**1 credit**

*Prerequisite: Meets or Masters Algebra I STAAR EOC, A or B in Algebra 1, or teacher recommendation*

This course will include the topics in regular Geometry along with geometric proofs and more in-depth inductive and deductive reasoning. Students may be required to do out-of-class projects. The course can be taken concurrently with Algebra II. It continues to prepare students advanced level and dual credit courses.

**Mathematical Models With Applications (2 semesters)**

**PEIMS # 03102400**

**Grades 10 -12**

**1 credit**

*Prerequisite: Algebra I*

Students will use algebraic, graphical and geometric reasoning to recognize patterns, to model information and to solve problems involving money, data, chance, patterns, music, design and science. Students use a variety of representations, tools, and technology to link modeling techniques and mathematical concepts and to solve applied problems.

**Algebra II (2 semesters)**

**PEIMS # 03100600**

**Grades 10 – 12**

**1 credit**

*Prerequisite: Algebra I, Geometry*

Students will continue to build on their foundation of mathematics skills as they expand their understanding through mathematical experiences. This course introduces the study of algebraic thinking and symbolic reasoning, algebraic techniques, and logarithmic functions and equations.

**Algebra II Honors \* (2 semesters)**

**PEIMS # 03100600-H**

**Grades 10 – 12**

**1 credit**

*Prerequisite: A or B in Geometry, teacher recommendation*

This course will include the topics of Algebra II with greater emphasis on advanced topics such as exponential and logarithmic functions and conic sections. This course continues to prepare students to take advanced math and dual credit courses. This course may be taken concurrently with Geometry.

**Pre-Calculus (2 semesters)**

**PEIMS # 03101100-H**

**Grades 11 – 12**

**1 credit**

*Prerequisite: Algebra II Honors*

This is a rigorous course designed to prepare students for AP calculus. This course is a combination of analysis and trigonometry. The analysis will build upon the skills learned in Algebra II with emphasis on solving equations and graphing functions. Trigonometry will include both triangular and sinusoidal functions and will investigate how trigonometry is used to solve real-world problems.

**College Prep Math (2 semesters)**

**PEIMS # CP111200**

**Grade 12**

**1 credit**

**Prerequisite:** Algebra I

This course is designed and encouraged for students that have not met the college readiness benchmarks for math. Students that successfully complete the course and pass the final will be eligible to enroll in College Algebra at WCJC regardless of TSI placement exam scores.

**AP Calculus AB (2 semesters offered through the Texas Virtual Network)**

**PEIMS # A3100101**

**Grade 12**

**1 credit**

**Prerequisite: Pre-Calculus**

AP Calculus AB covers topics found in one semester of college calculus. It includes differential and integral calculus with conceptual, mechanical, and applicable study in the calculus of functions of a single variable. Topics include limits, differentiation, integration, optimization, related rates, area and volume, slope fields, and differential equations, as well as an in-depth look at the Mean Value Theorem, the Intermediate Value Theorem, and the Fundamental Theorem of Calculus. Students may transfer to regular calculus at the end of the first semester. Students are expected to take the AP exam.

**Independent Study Math (1 semester)**

**WCJC Math 1314 College Algebra**

**Grades 11-12**

**1/2 credit**

**Prerequisite:** *TSI Waiver in Math or TSI Complete in Math*

In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

**Independent Study Math (1 semester)**

**WCJC Math 1324 Mathematics for Business**

**Grades 11-12**

**1/2 credit**

**Prerequisite:** *TSI Ready in Math*

The application of common algebraic functions including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value.

**Independent Study Math (1 semester)**

**WCJC Math 1342 Elementary Statistical Methods**

**Grades 11-12**

**1/2 credit**

**Prerequisite:** *TSI Waiver in Math or TSI Complete in Math*

Collection, analysis, presentation and interpretation of data, and probability. Analysis includes descriptive statistics, correlation and regression, confidence intervals and hypothesis testing. Use of appropriate technology is recommended.

### **Independent Study Math (1 semester)**

#### **WCJC Math 1325 Business Calculus**

**Grades 11-12**

**1/2 credit**

**Prerequisite: Math 1314 or Math 1324**

This course is the basic study of limits and continuity, differentiation, optimization and graphing, and integration of elementary functions, with emphasis on applications in business, economics, and social sciences. This course is not a substitute for MATH 2413 – Calculus

## **Physical Education**

### **Athletics I-IV**

**PEIMS # PES00000 (Ath 1), PES00001 (Ath 2), PES00002 (Ath 3), PES00003 (Ath 4)**

**Grades: 9-12**

**1/2 -1 credit**

**Prerequisite: *Physical required***

Participation in any athletic sport requires a coach's approval. Sports offered include: Football, Volleyball, Cross Country, Basketball, Track, Powerlifting, Golf, Softball, & Baseball. Please contact the athletic office if you have further questions.

### **PE**

**PEIMS #PES00008-PES00011**

**Grades: 9-12**

**1/2 -1 credit**

This course is designed to develop an interest in physical fitness, as well as an appreciation of the skills, knowledge, technique, and sportsmanship involved in lifetime fitness and well-being. Students are expected to participate in a wide range of individual sports and games that can be pursued for a lifetime.

## **Science**

### **Biology (2 semesters)**

**PEIMS # 03010200**

**Grades 9 – 10**

**1 credit**

This course studies a variety of topics that include: structures and functions of cells and viruses; growth and development of organisms; cells, tissues, and organs; nucleic acids and genetics; biodiversity; taxonomy; metabolism and energy transfers in living organisms; living systems; homeostasis; and ecosystems and the environment. Students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Laboratory skills will be developed.

### **Biology Honors (2 Semesters)**

**PEIMS # 03010200**

**Grade: 9**

**1 credit**

**Prerequisite: *A or B in previous science course, meets or masters on 8 Science STAAR, or teacher recommendation***

This class is a rigorous course that prepares students for future advanced science courses. It focuses on providing a strong biology foundation for those students who are pursuing a career in science/medical, mathematics, and/or

engineering. Students utilize laboratory investigations, scientific methods, higher order critical thinking, and problem-solving to make informed decisions on biological issues. Topics include human body systems, adaptations, zoology, botany, genetics, molecular and cellular biology, taxonomy and ecosystems. Subject matter in the course is faster paced. Students must have strong organizational skills and exhibit high levels of responsibility, dedication and drive. Students MUST be able to devote time outside of class for coursework.

### **Integrated Physics & Chemistry (2 semesters)**

**PEIMS # 03060201**

**Grades 9-10**

**1 credit**

This course stresses a practical approach to the introduction of physics and chemistry. Major units include: development of atomic theory, density, the study of the period table, changes in chemistry, force and motion, energy and its conservation, electricity, and waves. This course is recommended for the general education student as the 10th grade science for students graduating under 5 on the Foundation Plan, &/or any Endorsement except the STEM endorsement. General education students who are strong in math may choose to take Chemistry 1, instead of IPC, for their 10th grade science. This course is not recommended for advanced science students

### **Chemistry (2 semesters)**

**Grades 10 – 11**

**1 credit**

**Prerequisite:** *Algebra I, Biology*

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

### **Chemistry Honors (2 semesters)**

**Grade 10**

**1 credit**

**Prerequisite:** Algebra 1 and Biology with a grade of A or B

This course is for students who excel in science and math. It is designed to be an introduction to chemistry for those students preparing themselves for studies at a 4-year college. Extensive mathematical problem-solving will be included, and therefore a strong math (especially algebra) foundation is critical for success.

### **Physics (2 semesters)**

**PEIMS # 03050000**

**Grades 11 – 12**

**1 credit**

**Prerequisite:** **Algebra II (or concurrent enrollment)**

(This course receives honors weighted points)

This course studies a variety of topics that include: laws of motion; changes within physical systems and conservation of energy and momentum; forces; thermodynamics; characteristics and behavior of waves; and atomic, nuclear, and quantum physics. Students conduct laboratory and field investigations, use scientific practices during investigations, and make informed decisions using critical thinking and scientific problem solving. Students who successfully complete

Physics will acquire factual knowledge within a conceptual framework, practice experimental design and interpretation, work collaboratively with colleagues, and develop critical-thinking skills

## Social Studies

### **World Geography (2 semesters)**

**PEIMS # 03320100**

**Grade 9-10**

**1 credit**

This course covers the study of the Earth and the way people live and work on it. Concepts studied include location, place, human/environmental interaction, movement, and region.

### **World History (2 semesters)**

**PEIMS #03340400**

**Grade 9-10**

**1 credit**

This course is the only class offering students an overview of the entire history of humankind. The major emphasis is on the study of significant people, events, and issues from the earliest time to the present. Historical points of reference in world history are identified. The causes and effects of political and economic imperialism are evaluated.

### **U.S. History (2 semesters)**

**PEIMS #03340100**

**Grade 11**

**1 credit**

This required course studies the political, social, and economic events and issues related to Industrialization and urbanization, major wars, domestic and foreign policies of the Cold War and post-Cold War eras, and reform movements including civil rights. The Great Depression and the impact of constitutional issues on American society are taught in this class.

### **US History Dual Credit (1 semester)**

**HIST 1301**

**Grade 11**

**1/2 credit**

**PEIMS #03340100-D**

**Prerequisites:** *TSI ready in reading/writing*

A survey of the social, political, economic, cultural, and intellectual history of the United States from the preColumbian era to the Civil War/Reconstruction period. United States History I includes the study of preColumbian, colonial, revolutionary, early national, slavery and sectionalism, and the Civil War/ Reconstruction eras. Themes that may be addressed in United States History I include: American settlement and diversity, American culture, religion, civil and human rights, technological change, economic change, immigration and migration, and creation of the federal government.

**US History Dual Credit (1 semester)**

**HIST 1302**

**Grade 11**

**1/2 credit**

**PEIMS #03340100-D**

**Prerequisites:** *TSI ready in reading/writing*

A survey of the social, political, economic, cultural, and intellectual history of the United States from the Civil War/Reconstruction era to the present. United States History II examines industrialization, immigration, world wars, the Great Depression, Cold War and post-Cold War eras. Themes that may be addressed in United States History II include: American culture, religion, civil and human rights, technological change, economic change, immigration and migration, urbanization and suburbanization, the expansion of the federal government, and the study of U.S. foreign policy.

**Government (1 semester)**

**PEIMS # 03330100**

**Grade 12**

**1/2 credit**

The focus of this class is on the principles and beliefs upon which the United States was founded and on structure, functions, and powers of government on the national, state, and local levels. Political parties, checks and balances, separation of powers, and comparisons of the U.S. system with other political systems, and court case studies are researched.

**Government Dual Credit (1 Semester)**

**GOVT 2305**

**PEIMS # 03330100-D**

**1/2 credit**

**Grade 12**

**Prerequisite:** *TSI ready in reading/writing*

Origin and development of the U.S. Constitution, structure and powers of the national government including the legislative, executive, and judicial branches, federalism, political participation, the national election process, public policy, civil liberties, and civil rights.

**Government Dual Credit (1 Semester)**

**GOVT 2306**

**PEIMS # 03380002-D**

**1/2 credit**

**Grade 12**

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.

**Economics (1 semester)**

**PEIMS # 03310300**

**Grade 12**

**1/2 credit**

The focus is on the principles concerning production, consumption, and distribution of goods and services in the United States and a comparison with those in other countries around the world. Students examine the rights and responsibilities of consumers and businesses. Analysis of supply, demand, and cost, along with the role of financial institutions in a free enterprise system are explored.

**Economics Dual Credit (1 Semester)****WCJC ECON 2301****PEIMS # 03310300 -D****1/2 credit****Grade 12**

An analysis of the economy as a whole including measurement and determination of Aggregate Demand and Aggregate Supply, national income, inflation, and unemployment. Other topics include international trade, economic growth, business cycles, and fiscal policy and monetary policy.

**Personal Financial Literacy (1 semester)****PEIMS # 03380082****Grade: 10-12****1/2 credit**

This course is designed to be an interactive and research based course. The course will teach students to apply critical-thinking and problem-solving skills to analyze decisions involving earning and spending, saving and investing, credit and borrowing, insuring and protecting, and college and postsecondary education and training. It will develop students who have the knowledge and skills to make sound, informed financial decisions that will allow them to lead financially secure lifestyles and understand personal financial responsibility.

**Psychology Dual Credit (1 Semester)****WCJC PSYCH 2301****PEIMS # 03350100****Grade: 11-12*****Prerequisite:*** TSI waiver for Reading/Writing or TSI Complete in Reading/Writing**1/2 credit**

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

**Sociology Dual Credit (1 Semester)****WCJC SOCI 1301****PEIMS # 03370100****Grade: 11-12****1/2 credit*****Prerequisite:*** TSI waiver for Reading/Writing or TSI Complete in Reading/Writing

The scientific study of human society, including ways in which groups, social institutions, and individuals affect each other. Causes of social stability and social change are explored through the application of various theoretical perspectives, key concepts, and related research methods of sociology. Analysis of social issues in their institutional context may include topics such as social stratification, gender, race/ethnicity, and deviance.



**Information  
Technology**



**Education &  
Training**

# **Career & Technical Education Electives**



**Agriculture, Food  
& Natural Resources**



**Health Science**



**Hospitality  
& Tourism**



**Human  
Services**



## Business & Industry

\*Considered an advanced course in the career cluster

### **Agriculture Science**

**Advanced Plant and Soil Science\***

**PEIMS# 13002100**

**Grades 11-12**

**1 credit**

**Prerequisite:** *Biology, Chemistry or IPC, and Principles of Ag*

**Note:** This course satisfies a science credit requirement for students on the Foundation High School Program.

Advanced Plant and Soil Science provides a way of learning about the natural world. Students should know how plant and soil science has influenced a vast body of knowledge, that there are still applications to be discovered, and that plant and soil science is the basis for many other fields of science. To prepare for careers in plant and soil science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to plant and soil science and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations.

### **Agricultural Equipment Design and Fabrication\***

**PEIMS # 13002300**

**Grade: 11-12**

**1 credit**

**Prerequisite:** *Agricultural Mechanics and Metal Technologies*

In Agricultural Structures Design and Fabrication, students will explore career opportunities, entry requirements, and industry expectations. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural structures design and fabrication. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

### **Agricultural Mechanics and Metals Technology**

**PEIMS # 13002200**

**Grades 9-12**

**1 credit**

**Prerequisite:** *Principles of Agriculture*

This course is designed to develop an understanding of agricultural mechanics as it relates to safety and skills in tool operation, electrical wiring, plumbing, carpentry, fencing, concrete and metal working techniques.

### **Agricultural Power Systems (2 semesters)**

**PEIMS # 13002400**

**Grades: 11-12**

**2 credits**

**Prerequisite:** *Agricultural Mechanics & Metal Technologies*

To be prepared for careers in agricultural power, structural, and technical systems, students will attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the workplace; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students should have opportunities to learn, reinforce, apply, and transfer their knowledge and technical skills in a variety of settings. This course is designed to develop an understanding of power and control systems as related to energy sources, small and large power systems, and agricultural machinery.

**Floral Design****PEIMS # 13001800****Grade: 10-12****Prerequisite:** *Principles of Agriculture***1 credit**

This course is designed to develop students' ability to identify and demonstrate the principles and techniques related to floral design as well as develop an understanding of the management of floral enterprises. Through the analysis of artistic floral styles and historical periods, students develop respect for the traditions and contributions of diverse cultures. Students respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations.

**Horticulture Science****PEIMS # 13002000****Grade: 10-12****Prerequisite:** Principles of Agriculture**1 credit**

Horticultural Science is designed to develop an understanding of common horticultural management practices as they relate to food and ornamental plant production. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticulture and the workplace, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills in a variety of settings.

**Principles of Agriculture, Food, and Natural Resources****PEIMS #****Grade: 9-12****1 credit****Prerequisite:** none

Principles of Agriculture, Food, and Natural Resources will allow students to develop knowledge and skills regarding career and educational opportunities, personal development, globalization, industry standards, details, practices, and expectations. To prepare for careers in agriculture, food, and natural resources, students must attain academic skills and knowledge in agriculture. To prepare for success, students need opportunities to learn, reinforce, experience, apply, and transfer their knowledge and skills in a variety of settings.

**Process Technology****PEIMS # N1300262****Grades: 11-12****1 credit****Prerequisites:** none

Introduction to Process Technology will introduce students to process technology professions, including the different career opportunities available, and required certification/postsecondary education requirements for each. Introduction to Process Technology is the first of two courses that provide a pathway for the student to learn core competencies, as identified by industries using process technology and postsecondary institutions. This course will provide instruction which can lead to degree programs that support employment in energy, oil and gas process and refining, and chemical manufacturing industries.

## **Architecture & Construction**

(Courses are offered at the MCA Academy. An application and acceptance into the program is required.)

### **Principles of Construction**

**PEIMS # 13004220**

**Grades 11-12**

**1 credit**

Principles of Construction is intended to provide an introduction and lay a solid foundation for those students entering the construction or craft skilled areas. The course provides a strong knowledge of construction safety, construction mathematics, and common hand and power tools. This course also provides communication and occupation skills to assist the student in obtaining and maintaining employment.

### **Electrical Technology 1**

**PEIMS # 13005600**

**Grades 11-12**

**1 credit**

**Prerequisite:** *Principles of Construction*

In Electrical Technology I, students will gain knowledge and skills needed to enter the workforce as an electrician or building maintenance supervisor, prepare for a postsecondary degree in a specified field of construction or construction management, or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, and the reading of electrical drawings, schematics, and specifications.

### **Electrical 2**

**PEIMS # 13005700**

**Grade 12**

**2 credits**

**Prerequisite:** *Electrical Technology 1*

In Electrical Technology II, students will gain advanced knowledge and skills needed to enter the workforce as an electrician, a building maintenance technician, or a supervisor; prepare for a postsecondary degree in a specified field of construction or construction management; or pursue an approved apprenticeship program. Students will acquire knowledge and skills in safety, electrical theory, tools, codes, installation of electrical equipment, alternating current and direct current motors, conductor installation, installation of electrical services, and electric lighting installation.

### **Plumbing Technology 1**

**PEIMS # 13006000**

**Grades 11-12**

**1 credit**

**Prerequisite:** *Principles of Construction*

In Plumbing Technology, I, students will gain knowledge and skills needed to enter the industry as a plumbing apprentice, building maintenance technician, or supervisor or prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in industry workplace basics and employer/customer expectations, including how to use a plumbing code book; how to identify and use power and hand tools; how to be safe on the jobsite and when using hand and power tools; how to apply basic plumbing mathematics and plumbing drawing; and how to identify, fit, and use plastic, copper, cast iron, carbon steel, and corrugated stainless steel pipe. In addition, students will be introduced to gas, drainage, and water supply systems and continue their knowledge of workplace basics and green technologies.

## **Plumbing 2**

**PEIMS #**

**Grade 12**

**2 credits**

**Prerequisite:** *Plumbing Technology 1*

In Plumbing Technology II, students will gain the advanced knowledge and skills needed to enter the industry as a plumber, building maintenance technician, or supervisor or prepare for a postsecondary degree in mechanical engineering. Students will acquire knowledge and skills in plumbing codes, industry workplace basics, and employer/customer expectations, including tool and jobsite safety, advanced plumbing mathematics, commercial drawings, basic electricity, hanger installation, supports and structural penetrations, roof drains, fixture installation, valves and faucets, and oxy-fuel safety. Students will also learn about setup, cutting, brazing, and welding water system sizing; gas, drain, waste and vent installation and testing; and water heater installation.

## **Business Management**

**Business Information Management I**

**PEIMS # 13011400**

**Grades 9-12**

**1 credit**

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

## **Arts A/V Technology & Communications**

**Principles of A/V Technology & Communications**

**PEIMS # 13008200**

**Grades 9-12**

**1 credit**

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

## **Information Technology**

**Computer Maintenance**

**PEIMS # 13027300**

**Grades: 10-12**

27

**1 credit**

**Prerequisite:** *Business Information Management*

In Computer Maintenance, students will acquire knowledge of computer maintenance and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer maintenance. Students will apply technical skills to address the IT industry and emerging technologies.

## **Computer Programming I**

**PEIMS # 13027600**

**Grades: 10-12**

**1 credit**

**Prerequisite:** *Algebra I and recommended Business Information Management*

In Computer Programming I, students will acquire knowledge of structured programming techniques and concepts appropriate to developing executable programs and creating appropriate documentation. Students will analyze the social responsibility of business and industry regarding the significant issues relating to the environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

## **Computer Programming 2**

**PEIMS #**

**Grades 11-12**

**1 credit**

**Prerequisites:** *Computer Programming 1*

In Computer Programming II, students will expand their knowledge and skills in structured programming techniques and concepts by addressing more complex problems and developing comprehensive programming solutions. Students will analyze the social responsibility of business and industry regarding the significant issues relating to environment, ethics, health, safety, and diversity in society and in the workplace as related to computer programming. Students will apply technical skills to address business applications of emerging technologies.

## **Computer Technician Practicum**

**PEIMS # 13027500**

**Grades: 11-12**

**2 credits**

**Prerequisite:** *Computer Maintenance or Programming 1, and approval from the technology department*

In the Computer Technician Practicum, students will gain knowledge and skills in the area of computer technologies, including advanced knowledge of electrical and electronic theory, computer principles, and components related to the installation, diagnosis, service, and repair of computer-based technology systems. Students will reinforce, apply, and transfer their knowledge and skills to a variety of settings and problems. Proper use of analytical skills and application of IT concepts and standards are essential to prepare students for success in a technology-driven society. Critical thinking, IT experience, and product development may be conducted in a classroom setting with an instructor, with an industry mentor, or both.

## **Hospitality**

**Intro to Culinary Arts**

**PEIMS # 13022550**

**Grades 10-11**

28

**1 credit**

**Prerequisite:** *Principles of Human Services*

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

## **Culinary Arts**

**PEIMS # 13022600**

**Grades 11-12**

**2 credits**

**Prerequisite:** *Intro to Culinary Arts*

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

## **Public Service**

### **Education & Training**

#### **Principles of Education & Training**

**PEIMS # 13014200**

**Grade: 9-12**

**1 credit**

**Prerequisite:** *none*

Principles of Education and Training is designed to introduce learners to the various careers available within the Education and Training Career Cluster. Students use self-knowledge as well as educational and career information to analyze various careers within the Education and Training Career Cluster. Students will develop a graduation plan that leads to a specific career choice in the student's interest area.

#### **Human Growth and Development**

**PEIMS # 13014300**

**Grade: 10-12**

**1 credit**

**Prerequisite:** *Principles of Education & Training*

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

#### **Instructional Practices**

**PEIMS # 13014400**

**Grade: 11-12**

**2 credits**

**Prerequisite:** Principles of Education & Training & Human Growth and Development (Recommended)

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 with knowledge of early childhood, middle childhood, and adolescence education 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.

## **Health Science**

**Anatomy & Physiology** (2 semesters)

**PEIMS # 13020600**

**Grades 11 – 12**

**1 credit**

**Prerequisite:** *Biology & Chemistry*

**Note:** *Course is weighted as an honors course and will satisfy a science credit on the foundation high school program.*

Provides capable and highly motivated students with an in-depth study of the structure and functions of the components of the human body. Includes the investigation of cell specialization, the cooperative functions of cells as tissues and organs, the major body systems, and the interrelationship of those systems in a living organism. A&P builds a knowledge base for those students who wish to pursue a career in medicine and health care.

**Math for Medical Professionals (2 semesters)**

**PEIMS # 13020970**

**Grades 11-12**

**1 credit**

**Prerequisite:** **Geometry & Algebra 2**

The Mathematics for Medical Professionals course is designed to serve as the driving force behind the Texas essential knowledge and skills for mathematics, guided by the college and career readiness standards. By embedding statistics, probability, and finance, while focusing on fluency and solid understanding in medical mathematics, students will extend and apply mathematical skills necessary for health science professions. Course content consists primarily of high school level mathematics concepts and their applications to health science professions

## **Human Services**

**Principles of Human Services** (2 semesters)

**PEIMS # 13024200**

**Grade 9-12**

**1 credit**

This laboratory course will enable students to investigate careers in the human services career cluster, including counseling and mental health, early childhood development, family and community, and personal care services. Each student is expected to complete the knowledge and skills essential for success in high-skill, high-wage, or high-demand human services careers.

**Child Development** (2 semesters)

**PEIMS # 13024700**

**Grades 10-12**

**1 credit**

**Prerequisite:** *Principles of Human Services*

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

## **Law Public Safety, Corrections**

### **Forensic Science**

**PEIMS # 13029500**

**Grades: 11-12**

**1 Credit**

**Prerequisite:** *Biology, Chemistry*

**Note:** This course will satisfy a science credit on the foundation high school program.

Forensic Science is a course that introduces students to the application of science to connect a violation of law to a specific criminal, criminal act, or behavior and victim. Students will learn terminology and procedures related to the search and examination of physical evidence in criminal cases as they are performed in a typical crime laboratory. Using scientific methods, students will collect and analyze evidence such as fingerprints, bodily fluids, hairs, fibers, paint, glass, and cartridge cases. Students will also learn the history and the legal aspects as they relate to each discipline of forensic science. Scientific methods of investigation can be experimental, descriptive, or comparative. The method chosen should be appropriate to the question being asked.

## **Additional Career Development CTE Electives**

### **Applied Math for Technical Professionals**

**PEIMS # 12701410**

**Grade: 11-12**

**1 credit**

**Prerequisite:** *Algebra 1 and Geometry*

Students will apply mathematics to problems arising in everyday life, society, and the workplace. Students will use a problem-solving model that incorporates analyzing given information, formulating a plan or strategy, determining a solution, justifying the solution, and evaluating the problem-solving process and the reasonableness of the solution. Students will select appropriate tools such as real objects, manipulatives, paper and pencil, and technology and techniques such as mental math, estimation, and number sense to solve problems. Students will effectively communicate mathematical ideas, reasoning, and their implications using multiple representations such as symbols, diagrams, graphs, and language. Students will use mathematical relationships to generate solutions and make connections and predictions. Students will analyze mathematical relationships to connect and communicate mathematical ideas. Students will display, explain, or justify mathematical ideas and arguments using precise mathematical language in written or oral communication.

### **Career Prep I**

**PEIMS # 12701300**

**Grade: 11-12**

**2 credits**

**Prerequisite:** *Provide proof of employment at the start of class*

Career Preparation I provides opportunities for students to participate in a work-based learning experience that combines classroom instruction with business and industry employment experiences. The goal is to prepare students with a variety of skills for a changing workplace. Career preparation is relevant and rigorous, supports student attainment of academic standards, and effectively prepares students for college and career success.

### **Career Prep II**

**PEIMS # 12701400**

**Grade: 12**

**2 credits**

**Prerequisite:** *Career Prep I, proof of employment at the start of class*

Career Preparation II develops essential knowledge and skills through advanced classroom instruction with business and industry employment experiences. Career Preparation II maintains relevance and rigor, supports student attainment of academic standards, and effectively prepares students for college and career success.

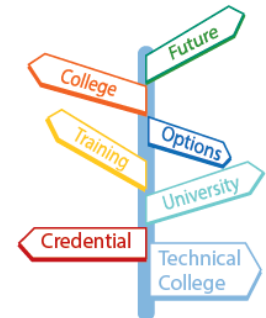


# Appendix

### Choices determine options

Most of the very best jobs available now and in the future require education and training beyond a high school diploma. Whether you intend to pursue a high-demand, industry workforce credential from a community or technical college or a traditional four-year degree from a university, the choices made in high school will determine your future options.

To best prepare yourself now for the transition to post-high school education or quality workforce training, choosing and taking the right classes is essential. The Distinguished Level of Achievement will ensure the best preparation for your future.



### Why it matters — *Benefits*

The Distinguished Level of Achievement opens a world of educational and employment opportunities for you beyond high school. The Distinguished Level of Achievement will:

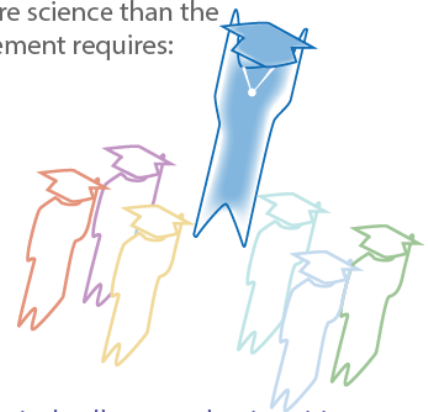
- Allow you to compete for Top 10% automatic admissions eligibility at any Texas public university;
- Position you among those first in line for a TEXAS Grant\* to help pay for university tuition and fees; and
- Ensure you are a more competitive applicant at the most selective colleges and universities.

\*Must be financially qualified

### What it means

The Distinguished Level of Achievement requires more math and more science than the Foundation High School Program. The Distinguished Level of Achievement requires:

- A total of four credits in math, including Algebra II;
- A total of four credits in science; and
- Successful completion of an endorsement in your area of interest.



### Advantages

- Opportunity to earn an endorsement in an area of interest
- More college and university options
- More financial aid options
- Better preparation for college-level coursework at community/technical colleges and universities
- Opportunity for immediate enrollment in classes related to your chosen field of study
- Strong foundation to successfully complete an industry workforce credential or college degree

## 8<sup>th</sup> Grade

- Review** choices offered under the **Foundation High School Program** and the **Endorsements** to decide on your future academic path.
- Select** the endorsement that best fits your area of personal interest and the major you plan to study in college.
- Recognize** that most college entrance requirements include rigorous advanced courses including **Algebra II**, higher-level science courses and languages other than English.

## 9<sup>th</sup>/10<sup>th</sup> Grade

- Monitor** high school credits; be sure to meet all **local and state requirements**.
- Take dual credit** or **Advanced Placement courses** if possible to earn college credit while still in high school.
- Keep** list of awards, honors and extracurricular activities for scholarship and college applications.
- Research** colleges or universities you are interested in attending. **Check** admission and application requirements and timelines.
- Explore** interests and take advantage of **Career Day** opportunities.
- Attend college nights** hosted by your high school. **Talk** with school representatives about the types of financial aid available.
- Take** the Preliminary SAT (PSAT)/National Merit Scholarship Qualifying Test in your sophomore year for practice. In your junior year, take the PSAT for eligibility for the National Merit Scholarship Competition. Students who take the PSAT or ACT ASPIRE<sup>®</sup> tend to score higher on the SAT or ACT than those who do not.

## 11<sup>th</sup>/12<sup>th</sup> Grade

- Take dual credit** or **Advanced Placement courses** if possible to earn college credit while you are still in high school.
- Check** with your counselor's office to learn about available scholarships. Be sure to apply early and for as many scholarships as possible. Do not limit yourself to local scholarships.
- Consider** taking SAT/ACT preparation classes. **Sign up** and take the ACT and/or SAT test, preferably in your junior year but no later than the fall of your senior year.
- Fill out** the FAFSA (Free Application for Federal Student Aid) early in the spring of your senior year.
- Apply** to college during the fall of your senior year.

If you plan to pursue technical training or enter the workforce after graduation, see the Information - *Workforce Resources* page or visit Texas Reality Check at [www.texasrealitycheck.com/](http://www.texasrealitycheck.com/).

# Graduation Requirements Check List

**Prior to 2018-2019**

Subject Area	Foundation+Endorsement	Distinguished Level of Achievement
<b>English -4 Credits</b>	<input type="checkbox"/> Eng. I <input type="checkbox"/> Eng. II <input type="checkbox"/> Eng. III <input type="checkbox"/> <b>English IV or Dual Credit (Required for Multidisciplinary Endorsement)</b> <input type="checkbox"/> College Prep English	<input type="checkbox"/> Eng. I <input type="checkbox"/> Eng. II <input type="checkbox"/> Eng. III <input type="checkbox"/> <b>English IV or Dual Credit (Required for Multidisciplinary Endorsement)</b> <input type="checkbox"/> College Prep English
<b>Math-4 Credits</b>	<input type="checkbox"/> <b>Algebra I (Required)</b> <input type="checkbox"/> <b>Geometry or Honors Geometry (Required)</b> <input type="checkbox"/> Math Models with Applications <input type="checkbox"/> Algebra II or Honors Algebra II <input type="checkbox"/> Pre-Calculus <input type="checkbox"/> AP Calculus <input type="checkbox"/> Independent Study Math (Dual Credit) <input type="checkbox"/> College Prep Math	<input type="checkbox"/> <b>Algebra I (Required)</b> <input type="checkbox"/> <b>Geometry or Honors Geometry (Required)</b> <input type="checkbox"/> <b>Algebra II or Honors Algebra II (Required)</b> <input type="checkbox"/> Pre-Calculus <input type="checkbox"/> AP Calculus <input type="checkbox"/> Independent Study Math (Dual Credit) <input type="checkbox"/> College Prep Math
<b>Science-4 Credits</b>	<input type="checkbox"/> Biology AND One credit must be selected from the following laboratory-based courses <input type="checkbox"/> Integrated Physics & Chemistry <input type="checkbox"/> Chemistry Two additional credits may be selected from : <input type="checkbox"/> Chemistry <input type="checkbox"/> Environmental Systems <input type="checkbox"/> Physics <input type="checkbox"/> Anatomy & Physiology* <input type="checkbox"/> Advanced Plant & Soil Science* <input type="checkbox"/> Forensic Science* *CTE courses that may also satisfy endorsement areas	<input type="checkbox"/> Biology AND One credit must be selected from the following laboratory-based courses <input type="checkbox"/> Integrated Physics & Chemistry <input type="checkbox"/> Chemistry Two additional credits may be selected from : <input type="checkbox"/> Chemistry <input type="checkbox"/> Environmental Systems <input type="checkbox"/> Physics <input type="checkbox"/> Anatomy & Physiology* <input type="checkbox"/> Advanced Plant & Soil Science* <input type="checkbox"/> Forensic Science *CTE courses that may also satisfy endorsement areas
<b>Social Studies-4 Credits (GISD Requirement)</b>	<input type="checkbox"/> World Geography <input type="checkbox"/> World History <input type="checkbox"/> US History or Dual Credit <input type="checkbox"/> Government or Dual Credit (.5) <input type="checkbox"/> Economics	<input type="checkbox"/> World Geography <input type="checkbox"/> World History <input type="checkbox"/> US History or Dual Credit <input type="checkbox"/> Government or Dual Credit (.5) <input type="checkbox"/> Economics
<b>Fine Arts-1 Credit</b>	<input type="checkbox"/> Art 1-IV <input type="checkbox"/> Band I-IV <input type="checkbox"/> Floral Design	<input type="checkbox"/> Art 1-IV <input type="checkbox"/> Band I-IV <input type="checkbox"/> Floral Design
<b>PE-1 Credit</b>	<input type="checkbox"/> PE <input type="checkbox"/> Athletics I-IV <input type="checkbox"/> Marching Band Substitution	<input type="checkbox"/> PE <input type="checkbox"/> Athletics I-IV <input type="checkbox"/> Marching Band Substitution
<b>Foreign Language-2 credits</b>	<input type="checkbox"/> Spanish 1 <input type="checkbox"/> Spanish 2 <input type="checkbox"/> Spanish 3	<input type="checkbox"/> Spanish 1 <input type="checkbox"/> Spanish 2 <input type="checkbox"/> Spanish 3
<b>7 State Required Electives + 3 GISD Required Electives</b>	<input type="checkbox"/> See Course Description Catalog for choices	<input type="checkbox"/> See Course Description Catalog for choices
<b>Total Credit</b>	<input type="checkbox"/> 29 (4 credits must be in a coherent sequence to earn endorsement selected)	<input type="checkbox"/> 29 (4 credits must be in a coherent sequence to earn endorsement selected)

# Graduation Requirements Check List

## 2018-2019 & Beyond

Subject Area	Foundation+Endorsement	Distinguished Level of Achievement
<b>English -4 Credits</b>	<input type="checkbox"/> Eng. I <input type="checkbox"/> Eng. II <input type="checkbox"/> Eng. III or AP English <input type="checkbox"/> <b>English IV or Dual Credit (Required for Multidisciplinary Endorsement)</b> <input type="checkbox"/> College Prep English	<input type="checkbox"/> Eng. I <input type="checkbox"/> Eng. II <input type="checkbox"/> Eng. III or AP English <input type="checkbox"/> <b>English IV or Dual Credit (Required for Multidisciplinary Endorsement)</b> <input type="checkbox"/> College Prep English
<b>Math-4 Credits</b>	<input type="checkbox"/> <b>Algebra I (Required)</b> <input type="checkbox"/> <b>Geometry or Honors Geometry (Required)</b> <input type="checkbox"/> Math Models with Applications <input type="checkbox"/> Algebra II or Honors Algebra II <input type="checkbox"/> Pre-Calculus <input type="checkbox"/> AP Calculus <input type="checkbox"/> Independent Study Math (Dual Credit) <input type="checkbox"/> College Prep Math	<input type="checkbox"/> <b>Algebra I (Required)</b> <input type="checkbox"/> <b>Geometry or Honors Geometry (Required)</b> <input type="checkbox"/> <b>Algebra II or Honors Algebra II (Required)</b> <input type="checkbox"/> Pre-Calculus <input type="checkbox"/> AP Calculus <input type="checkbox"/> Independent Study Math (Dual Credit) <input type="checkbox"/> College Prep Math
<b>Science-4 Credits</b>	<input type="checkbox"/> Biology AND One credit must be selected from the following laboratory-based courses <input type="checkbox"/> Integrated Physics & Chemistry <input type="checkbox"/> Chemistry Two additional credits may be selected from : <input type="checkbox"/> Chemistry <input type="checkbox"/> Environmental Systems <input type="checkbox"/> Physics <input type="checkbox"/> Anatomy & Physiology* <input type="checkbox"/> Advanced Plant & Soil Science* <input type="checkbox"/> Forensic Science* *CTE courses that may also satisfy endorsement areas	<input type="checkbox"/> Biology AND One credit must be selected from the following laboratory-based courses <input type="checkbox"/> Integrated Physics & Chemistry <input type="checkbox"/> Chemistry Two additional credits may be selected from : <input type="checkbox"/> Chemistry <input type="checkbox"/> Environmental Systems <input type="checkbox"/> Physics <input type="checkbox"/> Anatomy & Physiology* <input type="checkbox"/> Advanced Plant & Soil Science* <input type="checkbox"/> Forensic Science *CTE courses that may also satisfy endorsement areas
<b>Social Studies-3 Credits</b>	<input type="checkbox"/> World Geography or World History ( <b>Both Required for multidisciplinary endorsement</b> ) <input type="checkbox"/> US History or Dual Credit <input type="checkbox"/> Government or Dual Credit (.5) <input type="checkbox"/> Economics	<input type="checkbox"/> World Geography or World History ( <b>Both Required for multidisciplinary endorsement</b> ) <input type="checkbox"/> US History or Dual Credit <input type="checkbox"/> Government or Dual Credit (.5) <input type="checkbox"/> Economics
<b>Fine Arts-1 Credit</b>	<input type="checkbox"/> Art 1-IV <input type="checkbox"/> Band I-IV <input type="checkbox"/> Floral Design	<input type="checkbox"/> Art 1-IV <input type="checkbox"/> Band I-IV <input type="checkbox"/> Floral Design
<b>PE-1 Credit</b>	<input type="checkbox"/> PE <input type="checkbox"/> Athletics I-IV <input type="checkbox"/> Marching Band Substitution	<input type="checkbox"/> PE <input type="checkbox"/> Athletics I-IV <input type="checkbox"/> Marching Band Substitution
<b>Foreign Language-2 credits</b>	<input type="checkbox"/> Spanish 1 <input type="checkbox"/> Spanish 2 <input type="checkbox"/> Spanish 3	<input type="checkbox"/> Spanish 1 <input type="checkbox"/> Spanish 2 <input type="checkbox"/> Spanish 3
<b>7 State Required Electives + 3 GISD Required Electives</b>	<input type="checkbox"/> See Course Description Catalog for choices	<input type="checkbox"/> See Course Description Catalog for choices
<b>Total Credit</b>	<input type="checkbox"/> 29 (4 credits must be in a coherent sequence to earn endorsement selected)	<input type="checkbox"/> 29 (4 credits must be in a coherent sequence to earn endorsement selected)

# Weighted Courses

Honors Weight (10 points, 5.0 scale)	Advanced Weight (20 points, 6.0 scale)
<b>English</b>	<b>English</b>
English 1 Honors English 2 Honors	English 3 Advanced Placement WCJC English 1301 WCJC English 1302
<b>Foreign Language</b>	
Spanish 3	
<b>Math</b>	<b>Math</b>
Algebra 1 Honors Geometry Honors Algebra 2 Honors	Pre-Calculus WCJC Math 1314 College Algebra WCJC Math 1324 Business Math WCJC Math 1325 Business Calculus WCJC Math 1342 Statistics
<b>Science</b>	<b>Social Studies</b>
Biology Honors Chemistry Honors Anatomy & Physiology Physics	WCJC US History 1301 WCJC US History 1302 WCJC Federal Government 2305 WCJC State Government 2306 WCJC Economics 2301 WCJC General Psychology 2301 WCJC Sociology 1301

\*See policy EIC local for information on GPA/Rankings

\*Weighting for courses and course offerings are subject to change by cohort



*Ganado*

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# Independent School District

210 South 6<sup>th</sup> Street  
Ganado, Texas 77962  
361-771-4200  
[www.ganadoisd.net](http://www.ganadoisd.net)

## **ASSURANCE OF NONDISCRIMINATION**

It is the policy of (Ganado ISD) not to discriminate on the basis of race, color, national Origin, sex, age or handicap in its vocational programs, services or activities as required by Title IX of the Civil Rights Act of 1964, as amended: Title IX of the Education Amendments of 1972: and Section 504 of the Rehabilitation Act of 1973, as amended.

Es norma de (Ganado ISD) no discriminar por motivos de raza, color, origen nacional, sexo o impedimento, en sus programas, servicios o actividades vocacionales, tal como lo repuieren eo T tulo VI de Ley de Deprechos Civiles de 1964, seg n emienda: el T tulo IX de las Emmiendas en la Educaci n, de 1972, y la Ley de Rehabilitaci n de 1973, seg n enmeinda