2026-2027 SCHEDULING GUIDE

ENDORSEMENTS & Programs of Study

ARTS & HUMANITIES:

◊ Art ◊ Theater
◊ Music ◊ Choir
◊ Dance ◊ Social Studies
◊ Languages Other Than English

STEM:

Must take Chem, Physics & Algebra 2*
◊ Science
◊ Math
◊ Mechanical & Aerospace Engineering

PUBLIC SERVICES:

Law & Public Service
◊ Law Enforcement

Health Science
◊ Exercise Science (Athletic Trainer)
◊ Diagnostics & Therapeutic Services

BUSINESS & INDUSTRY:

Ag, Food & Natural Resources
◊ Ag Business, Leadership & Communications
◊ Animal Science
◊ Ag Tech & Mechanical Sys (Welding)
◊ Food Science & Technology
◊ Plant Science

Architecture & Construction
◊ Carpentry

Arts, A/V Tech & Communications
◊ Graphic Design & Interactive Media
◊ Printing & Imaging

Business, Marketing & Finance
◊ Entrepreneurship

Hospitality & Tourism
◊ Culinary Arts

Transportation, Distribution & Logistics
◊ Automotive & Collison Repair
◊ Aviation (Pilots)

**Algebra 2 can be satisfied by taking OnRamps College Algebra*

GRADUATION REQUIREMENTS
Foundations with Endorsement

26 Credits

- **English** *(4 credits)*
  English 1, 2, 3 & 4
- **Math** *(4 credits)*
  Algebra 1, Geometry & 2 Advanced Math courses
- **Science** *(4 credits)*
  Biology, IPC/Chemistry/Physics & 2 Advanced Science courses
- **Social Studies** *(3 credits)*
  World Geography and/or World History, US History, US Government (0.5) & Economics (0.5)
- **Languages Other Than English** *(2 credits)*
  German or Spanish
- **Physical Education** *(1 credit)*
  PE, Athletics, Marching Band (2 Fall semesters), Red Hotts (Dance-1st year only), Cheer (1st year only)
- **Fine Arts** *(1 credit)*
  Art, Band, Choir, Floral Design, Red Hotts (Dance), Theater, Theater Production, Music Appreciation
- **Electives** *(7 credits)*
  4 credits must be in one endorsement area

PERFORMANCE ACKNOWLEDGEMENTS

- Completing 12+ hours of college coursework, including dual credit and/or advanced technical credit
- Score of 3+ on an AP exam
- Qualifying score on PSAT, SAT or ACT
- Earning a nationally or internationally recognized industry certification
- Bilingualism/Bilingualism: 3.0 GPA and 3 credits in same foreign language; other criteria

DISTINGUISHED LEVEL OF ACHIEVEMENT

A student must complete:

- Foundations with Endorsement graduation plan **AND**
- **Algebra 2 or OnRamps College Algebra**

Additional ENDORSEMENT - MULTIDISCIPLINARY STUDIES

◊ 4 advanced CTE courses from endorsement area(s) **OR**

◊ 4 credits in each core subject area, including English IV & chemistry or physics (4 x 4) **OR**

◊ 4 credits in Advanced Placement or dual credit selected from English, math, science, social studies, economics, LOTE, or fine arts

FHS Counselors Information
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English & Reading Credits

- English 1 or Pre-AP English 1
- English 2 or Pre-AP English 2
- English 3, OnRamps Eng .3 or DC Eng. 3
- English 4, AP Eng .4 or DC Eng. 4
- Speech (Communication Applications) (0.5 credit)
- iLit (Reading) 1, 2 & 3

Math Credits

- Algebra 1
- Geometry or Pre-AP Geometry
- Algebra 2
- OnRamps College Algebra (Satisfies Algebra 2 requirement)
- OnRamps Precalculus
- AP Calculus (AB)
- Financial Mathematics
- Algebraic Reasoning
- Math Models

Social Studies Credit

- World Geography or AP Human Geography
- World History or AP World History
- US History, OnRamps US History or DC US History
- Government or DC Government (1 sem.)
- Economics, OnRamps Economics or DC Economics (1 sem.)
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- AP Psychology
- DC Psychology (1 sem.)
- DC Texas Government (1 sem.)
- Personal Financial Literacy

Science Credits

- Integrated Physics & Chemistry (IPC)
- Biology or Pre-AP Biology
- Chemistry or Pre-AP Chemistry
- OnRamps Biology, Chemistry and Physics
- Anatomy & Physiology
- Advanced Animal Science (Tier 2)
- Advanced Plant & Soil Science (Tier 2)
- Forensic Science
- Food Science
- Scientific Research and Design 1
- Scientific Research and Design 2
- Engineering Design and Problem Solving
- AP Environmental Science

PE Credits

FEMALE ATHLETES:
- Softball
- Basketball
- Cross Country
- Cheer
- Golf
- Soccer
- Swim
- Tennis
- Track
- Volleyball

MALE ATHLETES:
- Baseball
- Basketball
- Cross Country
- Football
- Golf
- Soccer
- Swim
- Tennis
- Track

- PE 1: Lifetime Fitness & Wellness Pursuits
- PE 2: Lifetime Recreation & Outdoor Pursuits
- PE 3: Skill-Based Lifetime Activities

Other Courses for P. E. Credit:
- Red Hotts (1st year only)
- Band (2 Fall semesters)

Contact Wendy Dietrich for athletic questions.

DC = Dual Credit AP = Advanced Placement

BUSINESS & INDUSTRY Endorsement

Agriculture, Food & Natural Resources:

AG BUSINESS, LEADERSHIP & COMMUNICATIONS:

- L1: Principles of Agriculture, Food & Natural Resources
- L1: Professional Communications (Speech) (1 sem.)
- L2: Judging 1 - Professional Standards in Ag
- L3: Judging 2 - Agribusiness Management & Mktg
- L4: Judging 3 - Ag Leadership, Research & Comm
- L4: Career Prep for Program of Study or Practicum in Ag, Food, Natural Resources

ANIMAL SCIENCE:

- L1: Principles of Agriculture, Food & Natural Resources
- L3: Livestock Production
- L4: Advanced Animal Science - SCIENCE Credit
- L4: Career Prep for Program of Study or Practicum in Ag, Food, Natural Resources

AG TECHNOLOGY & MECHANICAL SYSTEMS (Welding)

- L1: Principles of Agriculture, Food & Natural Resources
- L3: Ag Structures Design & Fabrication
- L4: Ag Equipment, Design & Fabrication +Lab
- (2 periods)
- L4: Career Prep for Program of Study or Practicum in Ag, Food, Natural Resources

FOOD SCIENCE & TECHNOLOGY:

- L1: Principles of Agriculture, Food & Natural Resources
- L2: Food Technology & Safety
- L3: Food Processing +Ag Lab (2 periods)
- L4: Food Science - SCIENCE Credit
- L4: Career Prep for Program of Study or Practicum in Ag, Food, Natural Resources

PLANT SCIENCE:

- L1: Principles of Agriculture, Food & Natural Resources
- L2: Greenhouse Operations & Production
- L3: Floral Design - FINE ARTS Credit
- L4: Advanced Floral Design
- L4: Advanced Plant & Soil Science - SCIENCE Credit
- L4: Career Prep for Program of Study or Practicum in Ag, Food, Natural Resources

Business, Marketing & Finance:

ENTREPRENEURSHIP:

- L1: Principles of Business, Marketing & Finance
- L2: Entrepreneurship 1
- L3: Entrepreneurship 2 or Incubator Program
- L4: Accelerator (Practicum in Entrepreneurship)
- L4: Career Prep for Program of Study

Arts, A/V Technology & Communications:

GRAPHIC DESIGN & INTERACTIVE MEDIA: (YEARBOOK)

- L1: Principles of Audio/Video Technology & Comm
- L2: Graphic Design & Illustration I
- L3: Graphic Design & Illustration II
- L4: Practicum in Graphic Design

PRINTING & IMAGING: (NEWSPAPER-COMET)

- L1: Principles of Audio/Video Technology & Comm
- L2: Printing & Imaging Technology I
- L3: Printing & Imaging Technology II
- L4: Practicum in Printing & Imaging Tech

BUSINESS & INDUSTRY Endorsement Cont'd:

Transportation, Distribution & Logistics:

AUTOMOTIVE & COLLISION REPAIR:

- L1: Automotive Basics
- L3: Auto Tech I: Maintenance & Light Repair (2 periods)
- L4: Auto Tech II: Automotive Service (2 periods)
- L4: Career Prep for Program of Study or Practicum in Transportation Systems

AVIATION (Pilots):

- L1: Introduction to Aerospace & Aviation
- L2: Introduction to Unmanned Aerial Vehicle (UAV)
- L3: Aviation Ground School
- L4: Career Prep for Program of Study or Practicum in Transportation Systems

Hospitality & Tourism :

CULINARY ARTS:

- L1: Introduction to Culinary Arts
- L2: Culinary Arts
- L3: Advanced Culinary Arts (2 periods)
- L4: Food Science - SCIENCE credit
- L4: Career Prep for Program of Study

Architecture & Construction:

CARPENTRY:

- L1: Principles of Construction
- L2: Construction Technology I (2 periods)
- L3: Construction Technology II (2 periods)
- L4: Career Prep for Program of Study or Practicum in Construction Technology

STEM Endorsement

Students must take Algebra 2, Chemistry & Physics to earn this endorsement

Mechanical & Aerospace Engineering:

- Algebra 2, Chemistry **AND** Physics

PLUS FOUR ENGINEERING CREDITS

- L1: Principles of Applied Engineering
- L1: Intro to Computer Aided Design & Drafting (CADD)
- L2: Intermediate CADD
- L3: Engineering Design & Presentation I
- L4: Engineering Design & Problem Solving - SCIENCE credit
- L4: Scientific Research & Design I - SCIENCE credit
- L4: Scientific Research & Design 2 - SCIENCE credit

*If student does not complete Physics, this endorsement becomes a Business & Industry endorsement.

Math (Need 5 credits):

- Algebra 1 **AND**
- Geometry or Pre-AP Geometry **AND**
- Algebra 2 or OnRamps College Algebra **AND**

TWO ADDITIONAL MATH CREDITS:

- OnRamps College Algebra
- OnRamps Precalculus
- AP Calculus (AB)

Science (NEED 5 science credits):

(Algebra 2 Required)

- Biology or Pre-AP Biology **AND**
- Chemistry or Pre-AP Chemistry **AND**
- OnRamps Physics 1 **AND**

TWO ADDITONAL SCIENCE CREDITS:

- AP Environmental Science
- Advanced Animal Science (Tier 2)
- Advanced Plant & Soil Science (Tier 2)
- Anatomy & Physiology
- Food Science
- Forensic Science
- OnRamps Biology
- OnRamps Chemistry
- OnRamps Physics
- Scientific Research & Design I
- Scientific Research & Design II
- Engineering Design & Problem Solving

PUBLIC SERVICES Endorsement

Health Science:

DIAGNOSTICS & THERAPEUTIC SERVICES:

- L1: Principles of Health Science
- L2: Medical Terminology
- L3: Health Science Theory +Clinical (2 periods)
- L3: Anatomy & Physiology - SCIENCE credit
- L4: Practicum in Health Science (2 periods)

EXERCISE SCIENCE, WELLNESS & RESTORATION (ATHLETIC TRAINER):

- L2: Kinesiology 1
- L3: Kinesiology 2
- L3: Physical Therapy 1
- L4: CTE Project-Based Capstone
- L4: Career Prep for Program of Study or Practicum

Law & Public Services:

LAW ENFORCEMENT:

- L2: Law Enforcement 1
- L2: Criminal Investigations
- L3: Law Enforcement 2
- L4: Forensic Science - SCIENCE credit
- L4: Practicum in Law, Public Safety, Corrections & Security
- L4: Career Prep for Program of Study or Practicum in Law, Public Safety, Corrections, and Security

ARTS & HUMANITIES Endorsement

Fine Arts:

ART:

- Art 1, 2, 3 & 4
- AP Drawing; AP 2-D Art and Design; AP 3-D Art and Design (Teacher approval needed)

DANCE:

- Red Hotts 1, 2, 3 & 4 (Tryouts are required)

BAND:

- Band 1, 2, 3 & 4
- Applied Music 1, 2, 3 & 4 (Must be in Band)
- Jazz Band 1, 2, 3 & 4
- Colorguard 1, 2, 3 & 4

THEATER:

- Theater Arts 1, 2, 3 & 4
- One Act 1, 2, 3 & 4
- Theater Productions 1, 2, 3 & 4

CHOIR:

- JV Choir 1, 2, 3 & 4
- Varsity Choir 1, 2, 3 & 4

Other Courses for Fine Art Credit

- Music Appreciation
- Floral Design
- DC Music Appreciation (1 sem.)
- DC Intro to Art (1 sem.)

LOTE (Languages Other Than English):

- German 1, 2, 3 & 4
- Spanish 1, 2, 3 & AP Spanish Language & Culture

Social Studies (NEED 5 credits):

- World Geography or AP Human Geography
- World History or AP World History
- US History, OnRamps US History or DC US History
- Government or DC Government (1 sem.)
- Economics, On Ramps Economics or DC Economics (1 sem.)
- AP Psychology
- DC Psychology (1 sem.)
- DC Texas Government (1 sem.)
- Personal Financial Literacy (1 sem.)

One Semester Courses

Speech (DC)
Psychology (DC)
Economics (Regular/DC)
Government (Regular/DC)
Music Appreciation (DC)
Introduction to Art Appreciation (DC)
Texas Government (DC)
Learning Lab (counselor approval only)

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Additional Electives

College Transitions - SENIORS only
Career Prep with Career Lab
Mentoring (See Counselor)

Work Program Criteria

- Student must have at least two periods available in schedule:
  1. Career Prep - classroom portion
  2. Career Lab - off-campus work portion
- Student must be a junior or senior.
- Student must be 16 years of age and have their own transportation.
- Student must be enrolled in the course at the beginning of the school year. This is not a course that may be added mid–year.
- Students are not allowed to stay on campus during their Career Lab periods.
- An administrator will verify employment before student is accepted into the program
- Student is required to work 10-15 hours each week (Sunday—Saturday), dependent on number of Career Lab periods in student schedule.
- The Career Preparation instructor will visit the employment site six times per school year to obtain an employer performance review of each student for grading purposes.

Early College High School

Application process much be completed in 8th grade.

Early College High School (ECHS) is a unique opportunity for students to earn both a high school diploma and an associate degree simultaneously. ECHS students will begin taking college classes during their freshman year of high school, which will lead to earning 60 college credit hours. Students enrolled in Fredericksburg ECHS will be able to participate in extracurricular activities, as well as work towards receiving CTE certifications. Fredericksburg ECHS graduates will be prepared to transfer to a four-year university to earn their bachelor's degree or begin an exciting career! For further information, please refer to:

www.fisd.org/echs

Contact Cayle Koennecke: caylek@fisd.org

Tier 1 Courses (5.0 scale)

Pre-AP courses are meant to prepare high school students for AP classes and other college level courses.

Pre-AP & Honors Courses

Pre-AP Biology	Pre-AP Chemistry
Pre-AP English 1	Pre-AP English 2
Pre-AP Geometry	

An AP course provides college level curriculum through College Board. AP exams offer students the option to test for college credit. College credit is dependent on the test score earned & your college's requirements.

Advanced Placement Courses

AP English 4	AP World History	AP Human Geography
AP Drawing	AP 2-D Art and Design	AP 3-D Art and Design
AP Environmental Science		AP Calculus
AP Spanish Language & Culture		AP Psychology

Dual enrollment enables students to earn high school credit and opt to accept college credit.

UT OnRamps

Biology	Chemistry	Physics 1	English 3
US History	College Algebra (Counts as Algebra 2)	Precalculus	

DUAL ENROLLMENT - UT OnRamps Course Information

- **BIOLOGY:** TCCNS Course BIOL 1306 & BIOL 1106 (Lab); UT BIO 311C & BIO 106M; (4 hours college credit)
  Prerequisites: Biology & Chemistry
- **CHEMISTRY:** TCCNS CHEM 1311 & CHEM 1111 (Lab); UT CH 301 & CH 104M; (4 hours college credit)
- **PHYSICS:** TCCNS PHYS 1301 & PHYS 1101 (Lab); UT PHY 302K & PHY 102M; (4 hours college credit)
  Recommended prerequisites: Algebra 2; PreCal concurrent enrollment recommended
- **US HISTORY:** TCCNS HIST 1301 & HIST 1302; UT HIS 315K & HIS 315L; (6 hours college credit)
- **COLLEGE ALGEBRA:** TCCNS MATH 1314; UT M301 (3 hours college credit)
- **PRECALCULUS:** TCCNS MATH 2312; UT M 305G (3 hours college credit) PreReq: Algebra 2/College Algebra
- **ENGLISH 3:** TCCNS ENGL 1301 & 1302; UT RHE 306 & 309J; (6 hours college credit) PreReq: Eng 1 & Eng 2

UT Transcript Requests: onestop.utexas.edu/student-records/transcripts-other-records/official-transcripts/onramps

TCCNS: Texas Common Course Numbering System; tccns.org

Tier 1 - Dual Credit Courses
Angelo State University

DC Course	Course Name	HS Course	# Hours
ARTS 1301	Introduction to Art	Art Appreciation	3.0
COMM 1315	Public Speaking	Speech	3.0
ECON 2301	Macroeconomics	Economics	3.0
ENGL 1301	English Comp 1—Fall Only	English 3 - S1	3.0
ENGL 1302	English Comp 2—Spring Only	English 3 - S2	3.0
ENGL 2326	Intro to American Lit—Fall Only	English 4 - S1	3.0
ENGL 2321	Intro to British Lit—Spring Only	English 4 - S2	3.0
HIST 1301	US History 1—Fall Only	Special Topics 1	3.0
HIST 1302	US History 2—Spring Only	US History	3.0
MUSI 1306	Intro to Music—Spring Only	Music Appreciation	3.0
POLS 2305	American Government	US Government	3.0
POLS 2306	Texas Government—Spring Only	Special Topics 2	3.0
PSY 2301	General Psychology	Psychology	3.0

Apply Now @ angelo.edu/dual-credit

OR see your counselor for questions

Additional Angelo State University (ASU) Dual Credit Information:

- A passing TSI test score (Accuplacer 2) should be achieved before a student may register for some courses.
- The student's transcript must be sent to ASU with a 3.0 + GPA or Recommendation Form completed.
- Each course may cost the student a fee. Fees vary based on course and student need.
- You may determine course equivalency with colleges/universities in the state of Texas by going to the Texas Common Course Numbering System (TCCNS) at tccns.org.
- Some courses may be taught in the classroom while others may be offered online only.

*Courses are subject to change.

Transcript Requests: angelo.edu/current-students/registrar/tranreq.php