BELTON CAREER BUILDERS

- ADVANCED ACADEMICS
- CAREER & TECHNICAL EDUCATION
- JUNIOR RESERVE OFFICER'S TRAINING



BELTON CAREER BUILDERS

beltoncareerbuilders.com

Belton ISD offers Career & Technical Education programs in Agriculture, Food, & Natural Resources; Architecture & Construction; Arts, A/V Technology & Communications; Business, Marketing, & Finance; Education & Training; Engineering; Health Science; Hospitality & Tourism; Human Services; Information Technology; Law & Public Service; and Transportation, Distribution, & Logistics. Admission to these programs is based on student interest, aptitude as evidenced in successful completion of prerequisite courses, age and/or grade level appropriateness, class space availability, and overall student schedule.

It is the policy of Belton ISD not to discriminate on the basis of race, color, national origin, sex or handicap in its vocational programs, services or activities and provides equal access to the Boy Scouts and other designated youth groups as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 504 of the Rehabilitation Act of 1973, as amended.

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

Belton ISD will take steps to assure that lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information about your rights or grievance procedures, contact the Title IX Coordinator at casandra.spearman@bisd.net, or 254.215.2078

El distrito escolar independiente de Belton (Belton ISD) ofrece programas de Educación profesional y técnica en: Agricultura, alimentos y recursos naturales; Arquitectura y construcción; Artes, tecnología audiovisual y comunicación; Negocios, mercadeo y finanzas; Educación y capacitación; Ingeniería; Ciencias de la salud; Hotelería y turismo; Servicios humanos; Tecnología de la información; Derecho y servicio público; y Transporte, distribución y logística. La admisión a estos programas se basa en el interés del estudiante, la aptitud demostrada por la finalización exitosa de los cursos prerrequisitos, la edad y/o el nivel de grado apropiado, la disponibilidad de cupos y el horario general del estudiante.

Es política de Belton ISD no discriminar por motivos de raza, color, origen nacional, sexo o discapacidad en sus programas vocacionales, servicios o actividades. Además, brinda acceso equitativo a los Boy Scouts y otros grupos juveniles designados, según lo exige el Título VI de la Ley de derechos civiles de 1964, según enmendada; el Título IX de las Enmiendas educativas de 1972; y la Sección 504 de la Ley de rehabilitación de 1973, según enmendada.

De igual forma, Belton ISD no discrimina por motivos de raza, color, origen nacional, sexo, discapacidad o edad en sus prácticas de empleo, según lo exige el Título VI de la Ley de derechos civiles de 1964, según enmendada; el Título IX de las Enmiendas educativas de 1972; la Ley de Discriminación por Edad de 1975, según enmendada; y la Sección 504 de la Ley de rehabilitación de 1973, según enmendada.

Belton ISD tomará medidas para garantizar que la falta de dominio del inglés no sea una barrera para la admisión y participación en todos los programas educativos y vocacionales.

Para obtener información sobre sus derechos o procedimientos de quejas, comuníquese con la Coordinadora del Título IX al casandra.spearman@bisd.net o al 254.215.2078.

BELTON CAREER BUILDERS

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Employment
Enlistment
Enrollment

ALL ROADS LEAD TO CAREER READINESS



Career Readiness in Belton ISD

Belton ISD Career Readiness is a journey that begins in pre-kindergarten and continues through 12th grade, ensuring each and every student experiences meaningful opportunities to explore, acquire, sustain, and advance in their chosen career field. From an early age, we spark curiosity through experiential learning, career exposure, and problem-solving experiences that build a strong foundation for academic and personal growth.

As students progress, they engage in deeper exploration through Advanced Academics, Career & Technical Education (CTE), and MCJROTC, gaining essential skills, industry knowledge, and leadership experience.

By high school, students have access to advanced placement coursework, industry-based certifications, internships, and real-world training, empowering them to graduate with confidence and a clear path forward. In Belton ISD, we are *Belton Career Builders*, and we believe career readiness isn't just about the destination—it's about fostering a lifelong journey of curiosity, discovery, aspiration, and success.

Advanced Academics



BELTON CAREER BUILDERS

beltoncareerbuilders.com

A FOUNDATION FOR OPPORTUNITY

Advanced Academics stands as one of three pillars within Belton ISD's Career Readiness Department, known as Belton Career Builders, alongside Career & Technical Education (CTE) and MCJROTC. Through a comprehensive framework of advanced coursework and enrichment opportunities, Advanced Academics challenges students to think critically, innovate, and excel. It is rigorous, high-impact learning—preparing students to thrive in college, careers, and beyond. Simply put, Advanced Academics cultivates potential, passion, and purpose.

GET CAREER READY



The vision of BISD Career Readiness is to foster a spirit of curiosity and career exploration, ignite aspirations, and empower each and every student to envision and shape their future.





Within this framework, Advanced Academics creates a continuum of learning that encourages intellectual curiosity, academic risk-taking, and postsecondary preparedness.

Belton ISD believes that students get far more out of school when they are both challenged by and interested in their coursework.

BELTON CAREER BUILDERS



Advanced Academics programs...

- Challenge students through rigorous coursework, including Advanced Placement (AP) and dual credit.
- Provide enrichment opportunities that foster problem-solving, creativity, and independent thinking.
- Empower students with the skills and knowledge to excel in college, careers, and lifelong learning.
- Support academic acceleration through gifted and talented services, academic competitions, and specialized programs.

Students who engage in Advanced Academics courses gain

- Access to rigorous, college-level coursework that enhances critical thinking and problem-solving.
- Opportunities to earn college credit while in high school through AP and dual credit programs.
- Enrichment experiences such as academic competitions, research projects, and leadership programs.
- Guidance and support to navigate advanced coursework and postsecondary planning.
- Preparation for highly skilled careers through advanced study in STEM, humanities, and interdisciplinary fields.
- A competitive edge in college admissions, scholarships, and workforce opportunities.

Students in Belton ISD's Advanced Academics programs develop the skills, knowledge, and confidence to pursue ambitious goals and achieve academic excellence. They are inspired and empowered to take ownership of their learning and pursue ambitious goals. Whether advancing to higher education, entering the workforce, or blending both paths, Advanced Academics provides a foundation for a future filled with opportunity and success.

BELTON CAREER BUILDERS



WHICH ONE IS RIGHT FOR ME?

	ADVANCED PLACEMENT (AP)	DUAL CREDIT (DC)	TEMPLE BIOSCIENCE INSTITUTE (TBI)
WHAT IS IT?	High school courses taught at a college level ending with a standardized AP exam	College courses taken in high school (HS), taught by qualified HS or college faculty	An application based, early college program in partnership with Temple College
CREDIT EARNED	College credit based on AP exam score and each university's policy	Earns transcripted college credit through the partner college	Earns college credit directly from Temple College (often transferable)
COST	Exam fee; reduced fees or financial assistance may be available	Reduced tuition and fees; Full tuition covered for qualifying students	Reduced tuition and fees; Full tuition covered for qualifying students
LOCATION	On the high school campus	On the high school campus, online, or at the college campus	At Temple College
INSTRUCTION	High school teacher approve trained and approved by College Board	High school teacher approved as adjunct by college or college professor	College professor; instruction in a college setting equaling a true college experience
EXPECTATIONS	College level rigor; grades earned go on high school transcript	College-level rigor; grades earned go on both high school and college transcript	Immersive curriculum; grades earned go on both high school and college transcript
CREDIT TRANSFER	AP exam score of 3 or higher; exact transfer varies by university	Credits typically transfer to Texas public universities & many out-of-state institutions	Credits generally transfer; strong alignment with STEM pathways
IDEAL STUDENT	Wants flexibility in nationwide college options	Wants guaranteed Texas college credits while in high school	Aspires to STEM fields and wants a small cohort experience
BENEFITS	Saves on college tuition; demonstrates rigor for college admissions	Earns both high school and college credit; reduces time and cost toward degree	Strong college transition skills; competitive advantage for STEM majors
COMMITMENT	Year-long high school class with AP exam at the end	Semester or year-long courses; grades impact GPA and college transcript	Multi-year cohort program

A FOUNDATION FOR OPPORTUNITY

To learn more, contact your counselor

BELTON ISD & TEMPLE COLLEGE APPROVED DUAL CREDIT COURSES

Courses are offered online or in-person as a part of TBI unless otherwise noted.
Online or non-TBI in-person courses are 16 weeks unless otherwise noted.
*** These courses may be offered in person at high school campuses with embedded BISD or Temple College faculty.**
+ These courses are year long dual credit courses.

COLLEGE READINESS

BISD COURSE NAME	BISD COURSE #	TEA COURSE CODE	BISD COURSE CREDIT	TEMPLE COLLEGE COURSE NAME	TC COURSE #	TC COURSE CREDIT
College Readiness & Study Skills	TC 11526	03270100	0.5	Learning Frameworks	EDUC 1300*	3

COMMUNICATION (6 credit hours required for Core 42)

BISD COURSE NAME	BELTON ISD COURSE #	TEA COURSE CODE	BELTON ISD COURSE CREDIT	TEMPLE COLLEGE COURSE NAME	TEMPLE COLLEGE COURSE #	TC COURSE CREDIT
English III A	TC 11302	03220300	0.5	Composition I	ENGL 1301*	3
English IV A	TC 11402	03220400	0.5	Composition I	ENGL 1301*	3
English III A	TBI 11503	03220300	0.5	Composition I	ENGL 1301	3
English IV A	TBI 11504	03220400	0.5	Composition I	ENGL 1301	3
English III B	TC 11312	03220300	0.5	Composition II	ENGL 1302*	3
English IV B	TC 11412	03220400	0.5	Composition II	ENGL 1302*	3
English III B	TBI 11513	03220300	0.5	Composition II	ENGL 1302	3
English IV B	TBI 11514	03220400	0.5	Composition II	ENGL 1302	3
Research/ Technical Writing	TC 11540	03221100	0.5	Technical & Business Writing	ENGL 2311	3
Public Speaking	TC 11713	03240900	0.5	Public Speaking	SPCH 1315	3
Public Speaking	TBI 11711	03240900	0.5	Public Speaking	SPCH 1315	3

LANGUAGE, PHILOSOPHY & CULTURE (3 credit hours required for Core 42)

BISD COURSE NAME	BISD COURSE #	TEA COURSE CODE	BISD COURSE CREDIT	TEMPLE COLLEGE COURSE NAME	TC COURSE #	TC COURSE CREDIT
English IV A + B	TC 11402	03220400	1	British Literature I	ENGL 2322*	3
English IV A + B	TBI 11504	03220400	1	British Literature I	ENGL 2322*	3
Spanish I	TC 26112	03440100	1	Beginning Spanish I	SPAN 1411	4
Spanish II (if Spanish I was taken in 8th grade)	TC 26112	03440100	1	Beginning Spanish I	SPAN 1411	4
Spanish II	TC 26122	03440200	1	Beginning Spanish II	SPAN 1412	4
Spanish III (if SPAN 1411 was taken in 9th grade)	TC 26122	03440200	1	Beginning Spanish II	SPAN 1412	4

MATHEMATICS (3 credit hours required for Core 42)

BISD COURSE NAME	BISD COURSE #	TEA COURSE CODE	BISD COURSE CREDIT	TEMPLE COLLEGE COURSE NAME	TC COURSE #	TC COURSE CREDIT
Pre-Cal	TC 12803	03101100	1	College Algebra	MATH 1314	3
Independent Study in Math	TC 12803	0310250X	1	College Algebra	MATH 1314	3
Pre-Cal	TBI 12804	03101100	1	College Algebra	MATH 1314	3
Independent Study in Math	TBI 12804	0310250X	1	College Algebra	MATH 1314	3
Pre-Cal	TC 12704	03101100	1	College Algebra STEM Majors	MATH 1414*	4
Independent Study in Math (X time taken)	TC 12820	0310250X	1	College Algebra STEM Majors	MATH 1414*	4
Statistics	TC 12601	03102530	1	Elementary Statistical Methods	MATH 1442	4
Statistics	TBI 12602	03102530	1	Elementary Statistical Methods	MATH 1442	4
Pre-Cal	TC 12501	03101100	1	Pre-Calculus Math	MATH 2412	4
Pre-Cal	TBI 12805	03101100	1	Pre-Calculus Math	MATH 2412	4
Independent Study in Math (X time taken)	TC 12501	0310250X	1	Pre-Calculus Math	MATH 2412	4
Independent Study in Math	TC 11502	0310250X	1	Calculus I	MATH 2413	4
Independent Study in Math	TBI 12806	0310250X	1	Calculus I	MATH 2413	4
Independent Study in Math	TBI 12807	0310250X	1	Calculus II	MATH 2414	4

LIFE & PHYSICAL SCIENCE (6 credit hours required for Core 42)

BISD COURSE NAME	BISD COURSE #	TEA COURSE CODE	BISD COURSE CREDIT	TEMPLE COLLEGE COURSE NAME	TC COURSE #	TC COURSE CREDIT
Anatomy & Physiology A	TC 13508	13020600	0.5	Anatomy & Physiology I	BIOL 2401	4
Anatomy & Physiology B	TC 13509	13020600	0.5	Anatomy & Physiology II	BIOL 2402	4
Anatomy & Physiology A	TBI 13505	13020600	0.5	Anatomy & Physiology I	BIOL 2401	4
Anatomy & Physiology B	TBI 13515	13020600	0.5	Anatomy & Physiology II	BIOL 2402	4
Anatomy & Physiology	TC 23416	13020600	0.5	Introduction to Anatomy & Physiology	BIOL 2404*	4
Environmental Systems	TC 13500	03020000	1	Environmental Science I	ENVR 1301	3
Environmental Systems	TBI 13500	03020000	1	Environmental Science I	ENVR 1301	3
Medical Microbiology A	TC 13501	13020700	0.5	Microbiology for Health Science	BIOL 2420*	4
Medical Microbiology A	TBI 13504	13020700	0.5	Microbiology for Health Science	BIOL 2420	4
Medical Microbiology B	TC 13507	13020700	0.5	Microbiology for Science Majors	BIOL 2421*	4

Medical Microbiology B	TBI 13514	13020700	0.5	Microbiology for Science Majors	BIOL 2421*	4
Scientific Research & Design	TBI 13502	130372XX	0.5	Biology for Science Majors I	BIOL 1406	4
Scientific Research & Design	TBI 13512	130372XX	0.5	Biology for Science Majors II	BIOL 1407	4
Medical Microbiology	TC 13516	13020700	0.5	Genetics without Lab	BIOL 2316	3
Chemistry A	TC 13511	03040000	0.5	General Chemistry I	CHEM 1411	4
Chemistry A	TBI 13503	03040000	0.5	General Chemistry I	CHEM 1411	4
Scientific Research & Design I	TC 13524	13037200	0.5	General Chemistry I	CHEM 1411	4
Scientific Research & Design I	TBI 13503	13037200	0.5	General Chemistry I	CHEM 1411	4
Chemistry B	TC 13522	0304000	0.5	General Chemistry II	CHEM 1412	4
Chemistry B	TBI 13523	0304000	0.5	General Chemistry II	CHEM 1412	4
Scientific Research & Design II	TBI 13513	13037210	0.5	General Chemistry II	CHEM 1412	4
CREATIVE ARTS (3 credit hours required for Core 42)						
BISD COURSE NAME	**BISD COURSE #**	**TEA COURSE CODE**	**BISD COURSE CREDIT**	**TEMPLE COLLEGE COURSE NAME**	**TC COURSE #**	**TC COURSE CREDIT**
Art Appreciation	TBI 18510	03500110	1	Art Appreciation	ARTS 1301	3
Art I	TC 18511	03500100	1	Art History Survey I	ARTS 1303	3
Music Appreciation I	TC 18515	03155600	1	Music Appreciation I	MUSI 1306	3
AMERICAN HISTORY (6 credit hours required for Core 42)						
BISD COURSE NAME	**BISD COURSE #**	**TEA COURSE CODE**	**BISD COURSE CREDIT**	**TEMPLE COLLEGE COURSE NAME**	**TC COURSE #**	**TC COURSE CREDIT**
US History A	TC 14302	03340100	0.5	United States History I	HIST 1301*	3
US History A	TBI 14303	03340100	0.5	United States History I	HIST 1301	3
US History B	TC 14312	03340100	0.5	United States History II	HIST 1302*	3
US History B	TBI 14313	03340100	0.5	United States History II	HIST 1302	3
GOVERNMENT/POLITICAL SCIENCE (6 credit hours required for Core 42)						
BISD COURSE NAME	**BISD COURSE #**	**TEA COURSE CODE**	**BISD COURSE CREDIT**	**TEMPLE COLLEGE COURSE NAME**	**TC COURSE #**	**TC COURSE CREDIT**
US Government	TC 14402	03330100	0.5	Federal Government (Federal Constitution & Topics)	GOVT 2305*	3
US Government	TBI 14422	03330100	0.5	Federal Government (Federal Constitution & Topics)	GOVT 2305	3
Texas Government	TBI 14420	13380001	0.5	Texas Government (Texas Constitution & Topics)	GOVT 2306	3
SOCIAL & BEHAVIOR SCIENCES (3 credit hours required for Core 42)						
BISD COURSE NAME	**BISD COURSE #**	**TEA COURSE CODE**	**BISD COURSE CREDIT**	**TEMPLE COLLEGE COURSE NAME**	**TC COURSE #**	**TC COURSE CREDIT**
World Regional Geography	TC 14316	03380042	1	World Geography	GEOG 1303*	3
Economics	TC 14441	03310300	0.5	Principles of Macroeconomics	ECON 2301	3
Economics	TBI 14426	03310300	0.5	Principles of Macroeconomics	ECON 2301	3
Sociology	TC 14514	03370100	0.5	Introductory Sociology	SOCI 1301	3
Sociology	TBI 14515	03370100	0.5	Introductory Sociology	SOCI 1301	3
Psychology	TC 14513	03350100	0.5	General Psychology	PSYC 2301	3
Psychology	TBI 14512	03350100	0.5	General Psychology	PSYC 2301	3
CAREER & TECHNICAL EDUCATION COURSES						
BISD COURSE NAME	**BISD COURSE #**	**TEA COURSE CODE**	**BISD COURSE CREDIT**	**TEMPLE COLLEGE COURSE NAME**	**TC COURSE #**	**TC COURSE CREDIT**
Computer Science I	TBI 17765	03580200	0.5	Programming Fundamentals I	COSC 1436	4
Computer Science II	TBI 17770	03580300	0.5	Programming Fundamentals II	COSC 1437	4
Computer Science III	TBI 17775	03580350	0.5	Programming Fundamentals III	COSC 2436	4
Practicum in EMT	TC 47104A TC 47104B	N1303015	2	EMT & Clinical EMT	EMSP 1501*+ EMSP1160*+	5 1
Principles of Construction	TC 17601	13004220	0.5	Basic Construction Safety	CNBT 1210*	2
Principles of Construction	TC 17602	13004220	0.5	Construction Tools & Techniques	CNBT 1318*	3
Construction Technology I	TC 27622	13005100	1	Construction Materials and Methods I	CNBT 1311*	3
Construction Technology I	TC 27623	13005100	1	Residential & Light Commercial Construction Drawings	CNBT 1300*	3
Construction Technology II	TC 27624	13005200	1	Construction Technology I	CNBT 1316*	3
Construction Technology II	TC 27626	13005200	1	Construction Technology II	CNBT 1350*	3
Practicum in Construction	TC 47617	13005250	1	Final Project Advanced Drafting OR Cooperative Education-Construction Engineering Technology/Technician	DFTG 2338* OR CNBT 1380*	3
Practicum in Construction	TC 47618	13005250	1	Special Topics in Building Codes & Inspection	CNBT 1491*	4

Updated May 2026

To review course descriptions and/or requirements, visit the Temple College website **HERE**.

BELTON ISD & UNIVERSITY OF MARY HARDIN-BAYLOR APPROVED DUAL CREDIT COURSES

Courses are offered in person at UMBH unless otherwise noted.
Transportation provided by enrolled students/families.

BISD COURSE NAME	BELTON ISD COURSE #	TEA COURSE CODE	BELTON ISD COURSE CREDIT	UMHB COURSE NAME	UMHB COURSE #	UMHB COURSE CREDIT
English III A	UMHB 11303	03220300	0.5	Composition I	ENGL 1321	3
English IV A	UMHB 11303	03220400	0.5	Composition I	ENGL 1321	3
English III B	UMHB 11313	03220300	0.5	Composition II	ENGL 1322	3
English IV B	UMHB 11313	03220400	0.5	Composition II	ENGL 1322	3
English IV A	UMHB 11403	03220400	0.5	British Literature to 1784	ENGL 2321	3
English IV B	UMHB 11413	03220400	0.5	British Literature since 1785	ENGL 2322	3
Independent Study in Math	UMHB 12703	03102500	0.5	College Algebra	MATH 1306	3
Pre-Calculus	UMHB 12503	03101100	0.5	Pre-Calculus	MATH 1320	3
Independent Study in Math (X time taken)	UMHB 12504	0310250X	0.5	Calculus I	MATH 1330	3
Scientific Research & Design I	UMHB 13501	13037200	0.5	General Chemistry I	CHEM 1410	4
Economics	UMHB 14462	03310300	0.5	Microeconomics	BECO 2312	3
United States Government	UMHB 14451	03330100	0.5	State & Federal Government I	POLS 2310	3

Updated July 2026

To review course descriptions and/or requirements, visit the Temple College website **HERE**.



ADVANCED ENGLISH COURSE DESCRIPTIONS

Pre AP English I

Prerequisite: Grade 8 ELAR

Grade level: 9 **Course credit: 1** **1 period, 2 semesters**

In English I Pre-AP, students will experience text geared to inspire and prepare all students for close, critical reading and analytical writing. This course trains the reader to observe the small details in a text to arrive at a deeper understanding of the whole. It also trains the reader to appreciate authors' sometimes-subtle choices, developing an awareness of how words produce effects and how the conventions of the English language are used for both precision and style. As writers, students focus first on crafting complex sentences, building this foundational skill; they then move on to producing well-organized paragraphs and, as the year progresses, more sophisticated, longer-form analyses. Students will take an English I STAAR/End-of Course exam upon completion of the course, and success on this exam is required for graduation.

Pre AP English II

Prerequisite: English I

Grade level: 10 **Course credit: 1** **1 period, 2 semesters**

This course builds on the foundation of the English I course, with an emphasis on the recursive moves that matter in preparing students for the challenges of college-level reading, writing, and discussion. English II requires students to apply those same practices to a new host of nonfiction and literary texts. As readers, students develop a vigilant awareness of how the poet, playwright, novelist, and writer of nonfiction alike can masterfully manipulate language to serve their unique purposes. As writers, students compose more nuanced analytical essays without losing sight of the importance of well-crafted sentences and a sense of cohesion. Each unit of English II culminates in a writing task that reflects the rigor of similar tasks they will eventually encounter on standardized writing exams, in AP English courses, and in college classes. Students will take an English II STAAR/End-of Course exam upon completion of the course, and success on this exam is required for graduation.

AP English Language and Composition

Prerequisite: English I and II

Grade level: 11 **Course credit: 1** **1 period, 2 semesters**

The AP English Language and Composition course cultivates the reading and writing skills that students need for college success and for intellectually responsible civic engagement. The course guides students in becoming curious, critical, and responsive readers of diverse texts and becoming flexible, reflective writers of texts addressed to diverse audiences for diverse purposes. The reading and writing students do in the course should deepen and expand their understanding of how written language functions rhetorically to communicate writers' intentions and elicit readers' responses in particular situations.

AP English Literature and Composition

Prerequisite: English I, II, and III

Grade level: 12 **Course credit: 1** **1 period, 2 semesters**

In the AP English Literature and Composition course, students devote themselves to the study of literary works written in—or translated into—English. Careful reading and critical analysis of such works of fiction, drama, and poetry, provide rich opportunities for students

to develop an appreciation of ways literature reflects and comments on a range of experiences, institutions, and social structures. Students will examine the choices literary writers make and the techniques they utilize to achieve purposes and generate meanings.

ADVANCED MATH COURSE DESCRIPTIONS

Advanced Geometry

Prerequisite: Algebra I
Grade level: 9-10 **Course credit: 1** **1 period, 2 semesters**
In Advanced Geometry students will more deeply explore concepts covering coordinate and transformational geometry, along with logical arguments and proofs. Algebraic Concepts will be thoroughly integrated into this course. Advanced Geometry is a more intensive and extensive course than the standard Geometry course. It is intended for highly motivated, self-disciplined students who have strong Algebra I skills.

Advanced Algebra II

Prerequisite: Algebra I; Recommended prerequisite: Geometry or Advanced Geometry
Grade level: 10-11 **Course credit: 1** **1 period, 2 semesters**
In Advanced Algebra II, students will more deeply broaden their knowledge of quadratic functions, exponential functions, and systems of equations. Advanced Algebra II is a more intensive and extensive course than the standard Algebra II course. It is intended for highly motivated, self-disciplined students who have strong Algebra I skills.

AP Precalculus

Prerequisite: Alg I, Geom, Alg II
Grade level: 11 **Course credit: 1** **1 period, 2 semesters**
AP Precalculus prepares students for other college-level mathematics and science courses. Through regular practice, students build deep mastery of modeling and functions, and they examine scenarios through multiple representations. The course framework delineates content and skills common to college precalculus courses that are foundational for careers in mathematics, physics, biology, health science, social science, and data science.

Advanced Quantitative Reasoning

Prerequisite: Algebra II, Geometry or Advanced Geometry
Grade level: 12 **Course credit: 1** **1 period, 2 semesters**
In Advanced Quantitative Reasoning, students will develop and apply skills necessary for college, careers, and life.

AP Statistics

Prerequisite: Algebra II, Geometry or Advanced Geometry
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
The AP Statistics course is equivalent to a one-semester, introductory, non-calculus- based college course in statistics. The AP Statistics course is an excellent option for any secondary school student who has successfully completed a second- year course in algebra and who possesses sufficient mathematical maturity and quantitative reasoning ability.

AP Calculus AB

Prerequisite: Four years of secondary mathematics

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

AP Calculus AB is roughly equivalent to a first semester college calculus course devoted to topics in differential and integral calculus. Prerequisites: Before studying calculus, all students should complete the equivalent of four years of secondary mathematics designed for college-bound students.

AP Calculus BC

Prerequisite: Four years of secondary mathematics including AP Calculus AB

Grade level: 12 **Course credit: 1** **1 period, 2 semesters**

AP Calculus BC is designed to be the equivalent to both first and second semester college calculus courses. AP Calculus BC applies the content and skills learned in AP Calculus AB. Prerequisites: Before studying calculus, all students should complete the equivalent of four years of secondary mathematics designed for college-bound students.

Accounting II

Prerequisite: Accounting I

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities. Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

AP Computer Science A

Prerequisite: Algebra I

Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

Digital Electronics

Prerequisite: Algebra I, Geometry

Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discreet voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of modern electronic devices such as cellular phones, digital audio players, laptop computers, digital cameras, and high-definition televisions. The primary focus of Digital Electronics is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Statistics & Business Decision Making

Prerequisite: Algebra II
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Robotics II

Prerequisite: Robotics I
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

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

ADVANCED SCIENCE COURSE DESCRIPTIONS

Pre AP Biology

Prerequisite: Recommended: Advanced 8th grade English and 8th grade Algebra I
Grade level: 9 **Course credit: 1** **1 period, 2 semesters**

Pre-AP Biology is recommended for students who are on an advanced academic track who foresee themselves taking AP science courses. Pre-AP Biology students are required to take the Biology STAAR/End-of-Course Exam upon completion of the course. In addition to the topics covered in Biology, this advanced course will include more in-depth study of biochemistry, photosynthesis, cellular respiration, inheritance patterns, and population dynamics. Pre-AP Biology is a course designed to prepare students for participating in AP Biology and/or freshman chemistry in college. Students will engage in analytical reading and writing to gain, retain, and apply scientific knowledge and to carry out scientific argumentation; use mathematics strategically to understand and express the quantitative aspects of biology, to record and interpret experimental data, and to solve problems as they arise; go beyond labeling diagrams to creating, revising, and using models to explain key patterns, interactions, and relationships in biological systems.

Advanced Chemistry

Prerequisite: Biology, Pre AP Biology, or IPC and Chemistry plus Algebra I
Recommended prerequisites: Advanced Algebra I, Advanced Geometry and concurrent enrollment in a third year of high school mathematics
Grade level: 10 **Course credit: 1** **1 period, 2 semesters**

In addition to the topics and skills covered in Chemistry, the following topics will be included: periodic trend relationships, additional rules for reactions and solubility, more complex geometric arrangements of molecular structures, balancing of redox reactions, and electrochemical cells as well as topics in organic chemistry. Additional skills include titration and more complex mathematical computations/ relationships throughout all units. Advanced Chemistry is a course designed to prepare students for participating in AP Chemistry and/or freshman chemistry in college. Students in Advanced Chemistry will engage in analytical reading and writing to gain, retain, and apply scientific knowledge

and to carry out scientific argumentation; integrate mathematics with conceptual understanding to model chemical phenomena; develop and refine models to connect macroscopic observations to structure, motion, and interactions occurring at the atomic scale.

AP Biology

Prerequisite: Recommended: Biology and Chemistry
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
AP Biology is an introductory college-level biology course. Students cultivate their understanding of biology through inquiry-based investigations as they explore the following topics: evolution, cellular processes, energy and communication, genetics, information transfer, ecology, and interactions.

AP Chemistry

Prerequisite: Recommended: Biology and Chemistry
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
AP Chemistry provides students with a college-level foundation to support future advanced coursework in chemistry. Students cultivate their understanding of chemistry through inquiry-based investigations, as they explore content such as: atomic structure, intermolecular forces and bonding, chemical reactions, kinetics, thermodynamics, and equilibrium. The AP Chemistry course is designed to be the equivalent of the general chemistry course usually taken during the first college year.

AP Physics 1

Prerequisite: Geometry or Advanced Geometry; concurrent enrollment in Algebra II or equivalent course
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
AP Physics 1 is an algebra-based, introductory college-level physics course. This course is designed to be first semester physics for non-engineering students. In AP Physics 1 students will cultivate their understanding of physics through inquiry-based investigations as they explore these topics: kinematics, dynamics, circular motion and gravitation, energy, momentum, simple harmonic motion, torque and rotational motion. Although the Physics 1 course includes basic use of trigonometric functions, this understanding can be gained either in the concurrent math course or in the AP Physics 1 course itself.

AP Physics 2

Prerequisite: AP Physics 1 or equivalent; concurrent enrollment in pre-calculus or equivalent
Grade level: 12 **Course credit: 1** **1 period, 2 semesters**
AP Physics 2 is an algebra-based, introductory college-level physics course. This course is designed to be the 2nd semester freshman physics for non-engineering majors. In AP Physics 2 students will cultivate their understanding of physics through inquiry-based investigations as they explore these topics: fluids; thermodynamics; electrical force, field, and potential; electric circuits; magnetism and electromagnetic induction; geometric and physical optics; and quantum, atomic, and nuclear physics.

AP Physics C: Mechanics

Prerequisite: Completion or concurrent enrollment in Calculus
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
AP Physics C: Mechanics is a calculus-based, college-level physics course. This course is equivalent to one semester of college level freshman physics for engineers and should be

taken by students planning to major in engineering. It covers kinematics; Newton's laws of motion; work, energy, and power; systems of particles and linear momentum; circular motion and rotation; oscillations; and gravitation. Note: AP Physics 1 is not a prerequisite for this course.

AP Physics C: Electricity & Magnetism

Prerequisite: Completion or concurrent enrollment in Calculus

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

AP Physics C: Electricity and Magnetism is a calculus-based, college-level physics course, especially appropriate for students planning to specialize or major in physical science or engineering. This course is equivalent to one semester of freshman physics for engineers and should be taken by students planning to major in engineering. The course explores topics such as electrostatics; conductors, capacitors, and dielectrics; electric circuits; magnetic fields; and electromagnetism. Introductory differential and integral calculus are used throughout the course. Note: AP Physics 1 is not a prerequisite for this course.

AP Environmental Science

Prerequisite: Biology and Chemistry

Recommended prerequisites: Successful completion of two years of high school laboratory science: one year of life science and one year of physical science, as well as at least one year of algebra.

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

AP Environmental Science is designed to be the equivalent of a one-semester, introductory college course in environmental science, AP Environmental Science is an AP science course that is appropriate for all juniors and seniors. Students will engage with the scientific principles, concepts, and methodologies required to understand the interrelationships within the natural world. The course requires that students identify and analyze natural and human-made environmental problems, evaluate the relative risks associated with these problems, and examine alternative solutions for resolving or preventing them. Environmental science is interdisciplinary, embracing topics from geology, biology, environmental studies, environmental science, chemistry, and geography.

Advanced Animal Science

Prerequisite: Biology, Chemistry or IPC, Algebra I, Geometry and either Small Animal Management + Equine Science or Livestock & Poultry Production

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Advanced Plant & Soil Science

Prerequisite: Biology and Chemistry or IPC

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

Advanced Plant and Soil Science provide 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. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Anatomy & Physiology

Prerequisite: Biology and Chemistry, IPC, or Physics
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Engineering Science

Prerequisite: Algebra I, Biology, and 1+ course for 1+ credit in Engineering career cluster
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Food Science

Prerequisite: Biology and Chemistry
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
In Food Science, students examine the nature and properties of foods, food microbiology, and the principles of science in food production, processing, preparation, and preservation; use scientific methods to conduct laboratory and field investigations; and make informed decisions using critical thinking and scientific problem solving. This course provides students with a foundation for further study that leads to occupations in food and beverage services; the health sciences; agriculture, food, and natural resources; and human services.

Forensic Science

Prerequisite: Biology and Chemistry, IPC, or Physics
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
Forensic Science is a survey course that introduces students to the application of science to law. Students learn terminology and procedures related to the collection and examination of physical evidence using scientific processes performed in a field or laboratory setting. Students also learn the history and the legal aspects of forensic science.

Medical Microbiology

Prerequisite: Biology, Chemistry, and 1+ credit from the Health Science career cluster
Grade level: 11-12 Course credit: 1 1 period, 2 semesters

The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

Pathophysiology

Prerequisite: Biology, Chemistry, and 1+ credit from the Health Science career cluster
Grade level: 11-12 Course credit: 1 1 period, 2 semesters

The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Scientific Research & Design

Prerequisite: Biology, Chemistry, IPC or Physics, and 2+ courses for 2+ credits in Engineering Career cluster
Grade level: 12 Course credit: 1 1 period, 2 semesters

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

ADVANCED SOCIAL STUDIES COURSE DESCRIPTIONS

AP Human Geography

Prerequisite: None
Grade level: 9-10 Course credit: 1 1 period, 2 semesters

This course introduces students to the systematic study of patterns and processes that have shaped human understanding, use, and alteration of Earth's surface. Students employ spatial concepts and landscape analysis to examine socioeconomic organization and its environmental consequences. They also learn about the methods and tools geographers use in their research and applications. The curriculum reflects the goals of the National Geography Standards (2012). The AP Human Geography course is equivalent to an introductory college-level course in human geography.

AP World History: Modern

Prerequisite: None
Grade level: 9-10 Course credit: 1 1 period, 2 semesters

In this course, students investigate significant events, individuals, developments, and processes from 1200 to the present. Students develop and use the same skills, practices, and

methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course provides six themes that students explore throughout the course to make connections among historical developments in different times and places: humans and the environment, cultural developments and interactions, governance, economic systems, social interactions and organization, and technology and innovation.

AP Psychology

Prerequisite: None

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

AP Psychology introduces students to the systematic and scientific study of human behavior and mental processes. While considering the studies that have shaped the field, students explore and apply psychological theories, key concepts, and phenomena associated with major units of study, including biological bases of behavior, cognition, development, learning, social psychology, personality, and mental and physical health. Throughout the course, students apply psychological concepts and employ psychological research methods and data interpretation to evaluate claims, consider evidence, and effectively communicate ideas. TheAP Psychology course is equivalent to an introductory college-level psychology course.

AP European History

Prerequisite: None

Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

In AP European History, students investigate significant events, individuals, developments, and processes from approximately 1450 to the present. Students develop and use the same skills, practices, and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change over time. The course also provides seven themes that students explore throughout the course in order to make connections among historical developments in different times and places: interaction of Europe and the world, economic and commercial development, cultural and intellectual development, states and other institutions of power, social organization and development, national and European identity, and technological and scientific innovations. AP European History is designed to be the equivalent of an introductory college or university survey of modern European history.

AP United States History

Prerequisite: None

Grade level: 11 **Course credit: 1** **1 period, 2 semesters**

In AP U.S. History, students investigate significant events, individuals, developments, and processes in nine historical periods from approximately 1491 to the present. Students develop and use the same skills and methods employed by historians: analyzing primary and secondary sources; developing historical arguments; making historical connections; and utilizing reasoning about comparison, causation, and continuity and change. The course also provides eight themes that students explore throughout the course in order to make connections among historical developments in different times and places: American and national identity; work, exchange, and technology; geography and the environment; migration and settlement; politics and power; America in the world; American and regional

culture; and social structures. AP U.S. History is equivalent to a two-semester introductory college course in U.S. History.

AP US Government & Politics

Prerequisite: None
Grade level: 12 **Course credit: 1** **1 period, 1 semester**
AP U.S. Government and Politics provides a college-level, nonpartisan introduction to key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study U.S. foundational documents, Supreme Court decisions, and other texts and visuals to gain an understanding of the relationships and interactions among political institutions, processes, and behaviors. Underpinning the required content of the course are several big ideas that allow students to create meaningful connections among concepts throughout the course.

ADDITIONAL ADVANCED COURSE DESCRIPTIONS—AP CAPSTONE

AP Seminar

Prerequisite: None
Grade level: 10 **Course credit: 1** **1 period, 2 semesters**
Students learn to investigate a problem or issue, analyze arguments, compare different perspectives, synthesize information from multiple sources, and work alone and in a group to communicate their ideas.

AP Research

Prerequisite: AP Seminar
Grade level: 11 **Course credit: 1** **1 period, 2 semesters**
Allows students to deeply implore an academic topic, problem, issue, or idea of individual interest. Students design, plan, and implement a yearlong investigation to address a research question. Students reflect on their skill development, document their processes, and curate the artifacts of their scholarly work through a process and reflection portfolio. The course culminates in an academic research paper of 4000-5000 words (accompanied by a performance, exhibit, or product where applicable) and a presentation with an oral defense.

AP Capstone is a diploma program based on two yearlong AP courses: AP Seminar and AP Research. These courses are designed to complement other AP courses that the AP Capstone student may take. Instead of teaching specific subject knowledge, AP Seminar and AP Research use an interdisciplinary approach to develop critical thinking, research, collaboration, time management, and presentation skills students need for college-level work. The College Board developed the AP Capstone Diploma program at the request of higher education professionals, who saw a need for a systematic way for high school students to begin mastering these skills before college.

Program Details
Students typically take AP Seminar in grade 10 or 11, followed by AP Research. Each course is yearlong, and AP Seminar is a prerequisite for AP Research. In both courses, students investigate a variety of topics in multiple disciplines. Students may choose to explore topics related to other AP courses they're taking. Both courses guide students through completing a research project, writing an academic paper, and making a presentation on their project.

Over the course of the two-year program, students are required to:

- Analyze topics through multiple lenses to construct meaning or gain understanding.
- Plan and conduct a study or investigation.
- Propose solutions to real-world problems.
- Plan and produce communication in various forms.
- Collaborate to solve a problem.
- Integrate, synthesize, and make cross-curricular connections.

Assessment: AP scores for both courses are based on teacher assessment of student presentation components and College Board scoring of student-written components plus an end-of-course exam (for AP Seminar only).

Awards: Students who earn scores of 3 or higher in AP Seminar and AP Research and on four additional AP Exams of their choosing receive the AP Capstone Diploma™. Students who earn scores of 3 or higher in AP Seminar and AP Research but not on four additional AP Exams receive the AP Seminar and Research Certificate™.

Career & Technical Education



BELTON CAREER BUILDERS

beltoncareerbuilders.com

A FOUNDATION FOR OPPORTUNITY

Belton ISD Career & Technical Education (CTE) stands as one of three pillars within the district's Career Readiness Department, known as Belton Career Builders, alongside Advanced Academics and MCJROTC. Through a dynamic blend of academic and technical instruction, CTE equips students with the knowledge, skills, and hands-on training necessary to thrive in today's workforce. It is rigorous, relevant, career-connected learning—preparing students for high-wage, high-skill, and in-demand careers. Simply put, CTE is learning that works.

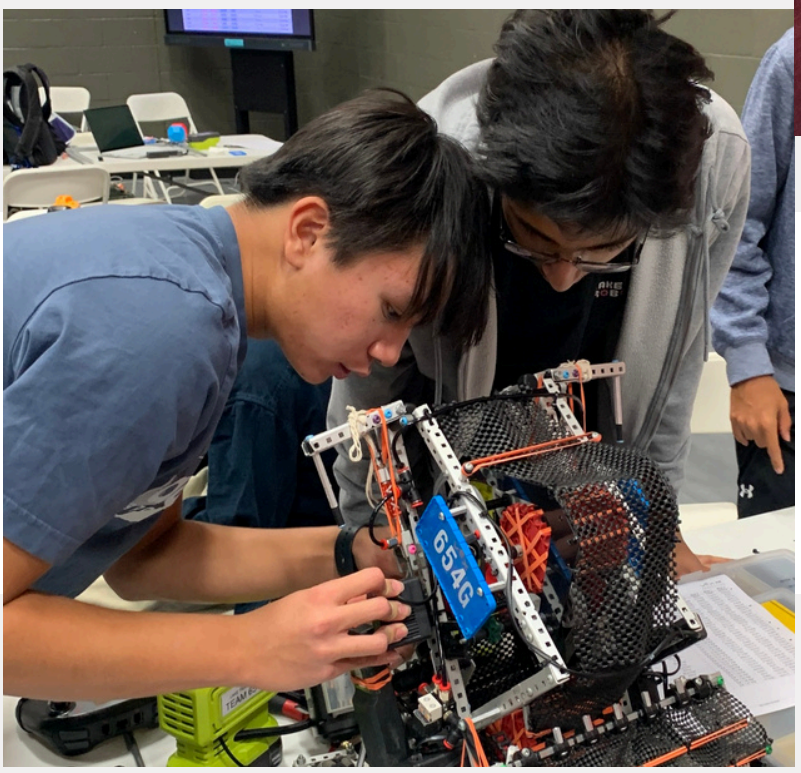
GET CAREER READY



The vision of BISD Career Readiness is to foster a spirit of curiosity and career exploration, ignite aspirations, and empower each and every student to envision and shape their future.

To further this aim, the vision of BISD CTE is to foster a spirit of curiosity through career exploration, investigation, navigation, and application.





The mission of BISD CTE is to learn about work, for work, through work, and at work.

The purpose of BISD CTE is to equip students with the essential skills needed to explore, acquire, sustain, and advance within their chosen career fields.

BELTON CAREER BUILDERS



Career & Technical Education programs...

- Spark curiosity through career connected learning experiences.
- Provide immersive learning in career-aligned environments.
- Empower students with industry-relevant skills and experiences.
- Increase student ownership and responsibility in their learning journey.

Students who engage in CTE courses gain

- Career-aligned learning experiences that connect classroom knowledge to real-world applications.
- Academic integration with technical skill development.
- Hands-on training in employability and job-readiness skills.
- Opportunities to earn industry-based certifications.
- Scaffolded, career-aligned programs of study.
- Work-based learning experiences that bridge the gap between education and industry.

CTE programs build a strong foundation for future opportunities through rigorous, career-connected learning that blends academic knowledge with hands-on technical training and employability skill development. Whether entering college, joining the workforce, or doing both—working while pursuing higher education—CTE equips students with the skills, experiences, and certifications needed to thrive in high-wage, high-skill, and in-demand careers.

BELTON CAREER BUILDERS

LAKE BELTON HIGH SCHOOL

CTE Programs of Study



BELTON CAREER BUILDERS

beltoncareerbuilders.com



AGRICULTURE, FOOD, & NATURAL RESOURCES

The Agriculture, Food, & Natural Resources (AFNR) Career Cluster focuses on the essential elements of life, food, water, land, and air. This Career Cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, and florist.

Agricultural Technology
Animal Science
Plant Science





AGRICULTURAL TECHNOLOGY & MECHANICAL SYSTEMS

EXPLORE

- Power & machinery systems
- Agricultural mechanics & fabrication
- Equipment design & repair
- Structures, electrification

LEARN BY DOING

- Hands-on, industry-aligned experiences
- FFA and/or robotics event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Farm Equipment Mechanic I

Associate Degrees
- Diesel Mechanics Technology
- Industrial Mechanics & Maintenance Technology

Bachelor's Degrees
- Agricultural Engineering
- Agricultural Systems Management

Master's, Doctoral, & Professional Degrees
- Agricultural Engineering
- Industrial Technology

Stackable IBCs/License
- Diesel Equipment Technology-Off Highway Specialization CER1
- Accredited Farm Manager

CULTIVATING POTENTIAL

The **Agricultural Technology & Mechanical Systems** program of study focuses on opportunities related to applying engineering technology and biological science to agriculture problems related to power & machinery, electrification, structures, soil & water use, and processing agricultural products.

This program of study includes diagnosing, repairing, or overhauling machinery & vehicles, such as tractors, harvesters, dairy equipment, and irrigation systems.

AGRICULTURAL TECHNOLOGY & MECHANICAL SYSTEMS



Farm Equipment Mechanic & Service Technician

$41,258
Annual Median Wage

Mobil Heavy Equipment Mechanic

$60,005
Annual Median Wage





Farmer, Rancher, &Other Agricultural Managers

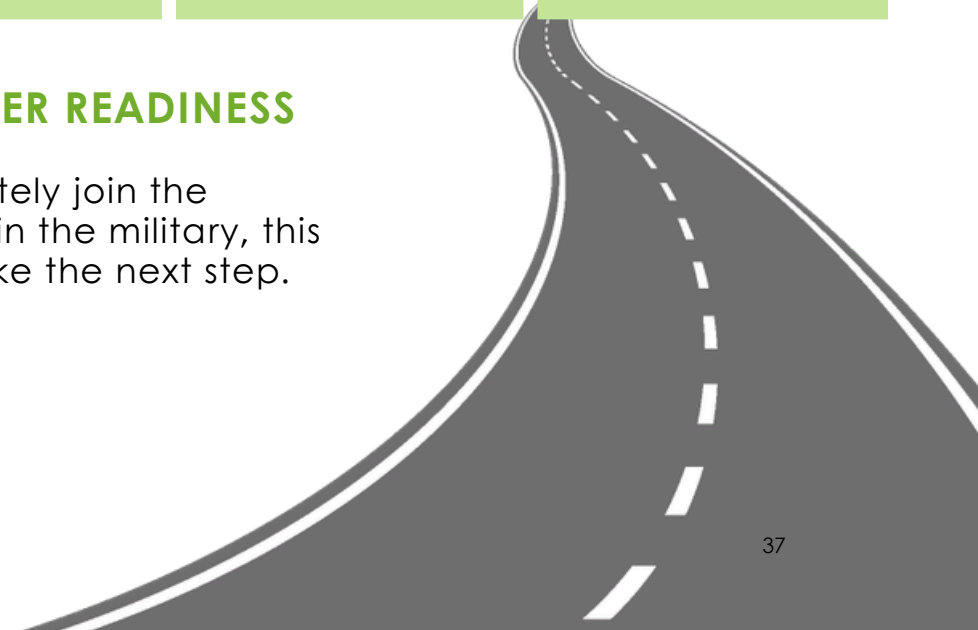
$79,064
Annual Median Wage

AGRICULTURAL TECHNOLOGY & MECHANICAL SYSTEMS

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of AFNR • Agricultural Mechanics & Technologies	• Agricultural Structures Design & Fabrication	• Agricultural Equipment Design & Fabrication	• Practicum in AFNR • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • AWS D1.1 • AWS D 9.1	**RECOMMENDED ADVANCED PLACEMENT** • AP Calculas AB • AP Statistics • AP Physics • AP Computer Science Principles	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



AGRICULTURAL TECHNOLOGY & MECHANICAL SYSTEMS COURSE DESCRIPTIONS

Principles of AFNR

Prerequisite: None **Course credit: 1**
Grade level: 9-12 **1 period, 2 semesters**

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.

Agricultural Mechanics & Metal Technologies

Prerequisite: None **Course credit: 1**
Grade level: 9-12 **1 period, 2 semesters**

Agricultural Mechanics and Metal Technologies 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. To prepare for careers in agricultural power, structural, and technical systems, students must attain academic skills and knowledge; acquire technical knowledge and skills related to power, structural, and technical agricultural systems and the industry; and develop knowledge and skills regarding career opportunities, entry requirements, industry certifications, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer knowledge and skills and technologies in a variety of settings.

Agricultural Structures Design & Fabrication

Prerequisite: Agricultural Mechanics & Metal Technologies
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

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 Equipment Design & Fabrication

Prerequisite: Agricultural Mechanics & Metal Technologies
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

In Agricultural Equipment Design and Fabrication, students will acquire knowledge and skills related to the design and fabrication of agricultural equipment. To prepare for careers in mechanized agriculture and technical systems, students must attain knowledge and skills related to agricultural equipment design and fabrication. To prepare for success, students reinforce, apply, and transfer their academic knowledge and technical skills in a variety of settings.

Practicum in AFNR

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including Ag Structures or Ag Equipment

Grade level: 12 Course credit: 2 2 block periods, 2 semesters

Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical applications of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience, such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to 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 their knowledge and skills and technologies in a variety of settings.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course

Grade level: 12

Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning

Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning

Career Preparation and Extended Career Preparation provide 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.

ANIMAL SCIENCE

EXPLORE

- Animal health & veterinary care
- Animal biology & life processes
- Animal production & management
- Wildlife & species research

LEARN BY DOING

- Hands-on, industry-aligned experiences
- FFA event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Reproduction Technician

Associate Degrees
- Biological & Physical Sciences
- Entomology

Bachelor's Degrees
- Animal Science
- Zoology/Animal Biology

Master's, Doctoral, & Professional Degrees
- Marine Sciences Biotechnology

Stackable IBCs/License
- Veterinarian
- Certified Veterinarian Technician

CULTIVATING POTENTIAL

The **Animal Science** program of study focuses on occupational and educational opportunities associated with the science, research, and business of animals and other living organisms.

This program of study includes applying biology and life science to real-world life processes of animals and wildlife, either in laboratories or in the field, which could include a veterinary office, a farm or ranch, or any outdoor area harboring animal life. Students will research and analyze the growth and destruction of species and research or diagnose diseases and injuries of animals.

ANIMAL SCIENCE

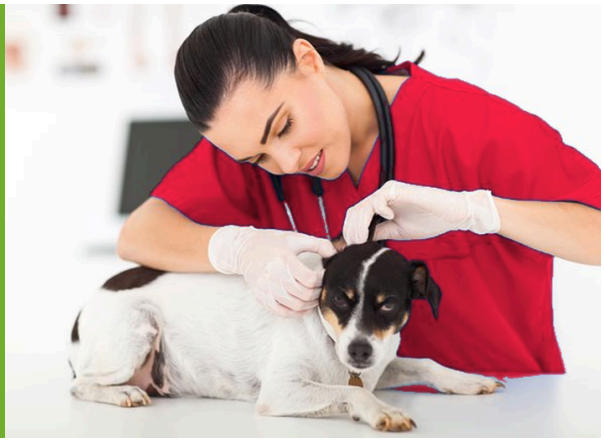


Veterinary Assistants & Laboratory Animal Caretakers

$33,581
Annual Median Wage

Veterinary Technologists

$35,698
Annual Median Wage





Veterinarians

$125,030
Annual Median Wage

ANIMAL SCIENCE

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
			
• Principles of AFNR • Small Animal Management • Equine Science	• Livestock & Poultry Production	• Veterinary Science • Advanced Animal Science	• Practicum in AFNR • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Elanco Fundamentals of Animal Science • Elanco Veterinary Medical Applications • Certified Veterinary Assistant, Level 1	**RECOMMENDED ADVANCED PLACEMENT** • AP Biology • AP Env. Science • AP Statistics	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.

ANIMAL SCIENCE COURSE DESCRIPTIONS

Principles of AFNR

Prerequisite: None

Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

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.

Small Animal Management

Prerequisite: None

Grade level: 9-12 **Course credit: .5** **1 period, 1 semester**

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

Equine Science

Prerequisite: Agricultural Mechanics & Metal Technologies

Grade level: 9-12 **Course credit: .5** **1 period, 1 semester**

In Equine Science, students will acquire knowledge and skills related to equine animal systems and the equine industry. Equine Science may address topics related to horses, donkeys, and mules. To prepare for careers in the field of animal science, students must enhance academic knowledge and skills, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Livestock & Poultry Production

Prerequisite: 1+ course(s) from the AFNR career cluster

Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

In Livestock Production, students will acquire knowledge and skills related to livestock and the livestock production industry. Livestock Production may address topics related to beef cattle, dairy cattle, swine, sheep, goats, and poultry. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems 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 their knowledge and skills in a variety of settings.

Veterinary Science

Prerequisite: Small Animal Management + Equine Science or Livestock & Poultry Production
Grade level: 11-12 Course credit: 1 1 period, 2 semesters
Veterinary Science covers topics relating to veterinary practices, including practices for large and small animal species. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire technical knowledge and skills related to animal systems 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 and technologies in a variety of settings.

Advanced Animal Science^

Prerequisite: Biology, Chemistry or IPC, Algebra I, Geometry and either Small Animal Management + Equine Science or Livestock & Poultry Production
Grade level: 11-12 Course credit: 1 ^Science credit **1 period, 2 semesters**
Advanced Animal Science examines the interrelatedness of human, scientific, and technological dimensions of livestock production. Instruction is designed to allow for the application of scientific and technological aspects of animal science through field and laboratory experiences. To prepare for careers in the field of animal science, students must attain academic skills and knowledge, acquire knowledge and skills related to animal systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry standards. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings.

Practicum in AFNR

Prerequisite: 2+ courses for 2+ credits in aligned program of study
Grade level: 12 Course credit: 2 2 block periods, 2 semesters
Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical applications of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience, such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to 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 their knowledge and skills and technologies in a variety of settings.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.

PLANT SCIENCE

EXPLORE

- Plant biology & growth systems
- Plant production & cultivation
- Floral design & plant applications
- Plant research & environmental systems

LEARN BY DOING

- Hands-on, industry-aligned experiences
- FFA event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Horticulturist

Associate Degrees
- Biology/Biological Sciences
- Biological & Physical Sciences

Bachelor's Degrees
- Horticulture
- Plant Pathology/ Phytopathology

Master's, Doctoral, & Professional Degrees
- Plant Breeding
- Bottony/Plant Biology

Stackable IBCs/License
- Nursery Floral license
- Horticulturist Certification

CULTIVATING POTENTIAL

The **Plant Science** program of study focuses on occupational and educational opportunities associated with the science, research, and business of plants and other living organisms.

This program of study includes the application of biology and life science to real-world life processes of plants and vegetation, either in laboratories or in the field.

PLANT SCIENCE



Pesticide Handlers, Sprayers, & Applicators, Vegitation

$44,570
Annual Median Wage

Biological Technicians

$47,968
Annual Median Wage





Farmers, Ranchers, & Other Agricultural Managers

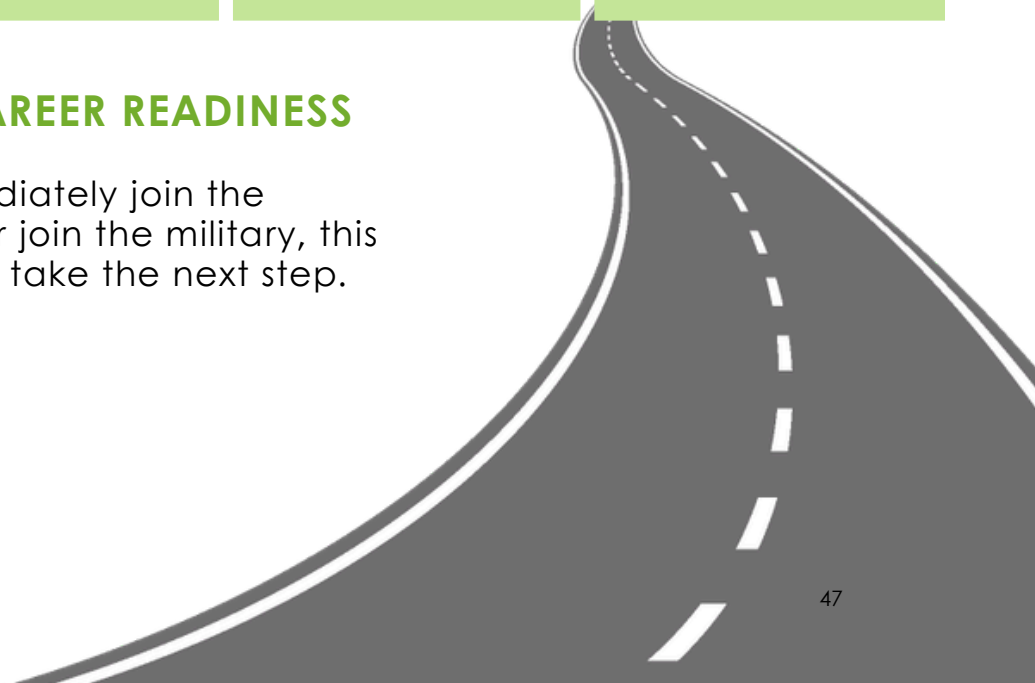
$79,064
Annual Median Wage

PLANT SCIENCE

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of AFNR	• Greenhouse Operations & Production • Floral Design	• Advanced Floral Design • Advanced Plant & Soil Science	• Practicum in AFNR • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • TX State Florist's Association Knowledge Based Floral certification	**RECOMMENDED ADVANCED PLACEMENT** • AP Biology • AP Env. Science • AP Art & Design	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



PLANT SCIENCE COURSE DESCRIPTIONS

Principles of AFNR

Prerequisite: None

Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

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.

Greenhouse Operations & Production

Prerequisite: None

Grade level: 10-12 **Course credit: 1** **1 period, 2 semester**

Greenhouse Operation and Production is designed to develop an understanding of greenhouse production techniques and practices. To prepare for careers in horticultural systems, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems 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 their knowledge and skills and technologies in a variety of settings.

Floral Design

Prerequisite: None

Grade level: 10-12 **Course credit: 1** **1 period, 2 semester**

Floral Design 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 will develop respect for the traditions and contributions of diverse cultures. Students will respond to and analyze floral designs, thus contributing to the development of lifelong skills of making informed judgments and evaluations. To prepare for careers in floral design, students must attain academic skills and knowledge, acquire technical knowledge and skills related to horticultural systems, and develop knowledge and skills regarding career opportunities, entry requirements, and industry expectations. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Advanced Floral Design

Prerequisite: Floral Design

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

In Advanced Floral Design, students gain advanced knowledge and skills specifically needed to enter the workforce as floral designers or as freelance floral event designers, with an emphasis on specialty designs and occasion-specific designs and planning. Students are also prepared to enter postsecondary certification or degree programs in floral design or special events design. Students build on the knowledge base from Floral Design and are introduced to more advanced floral design concepts. In addition, students gain knowledge of the design elements and planning techniques used to produce unique specialty floral designs that support the goals and objectives of an occasion or event.

Advanced Plant & Soil Science

Prerequisite: Biology and Chemistry or IPC
Grade level: 11-12 Course credit: 1 1 period, 2 semesters
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. To prepare for success, students need opportunities to learn, reinforce, apply, and transfer their knowledge and skills and technologies in a variety of settings.

Practicum in AFNR

Prerequisite: 2+ courses for 2+ credits in aligned program of study
Grade level: 12 Course credit: 2 2 block periods, 2 semesters
Practicum in Agriculture, Food, and Natural Resources is designed to give students supervised practical applications of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience, such as employment, independent study, internships, assistantships, mentorships, or laboratories. To prepare for careers in agriculture, food and natural resources, students must attain academic skills and knowledge, acquire technical knowledge and skills related to 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 their knowledge and skills and technologies in a variety of settings.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
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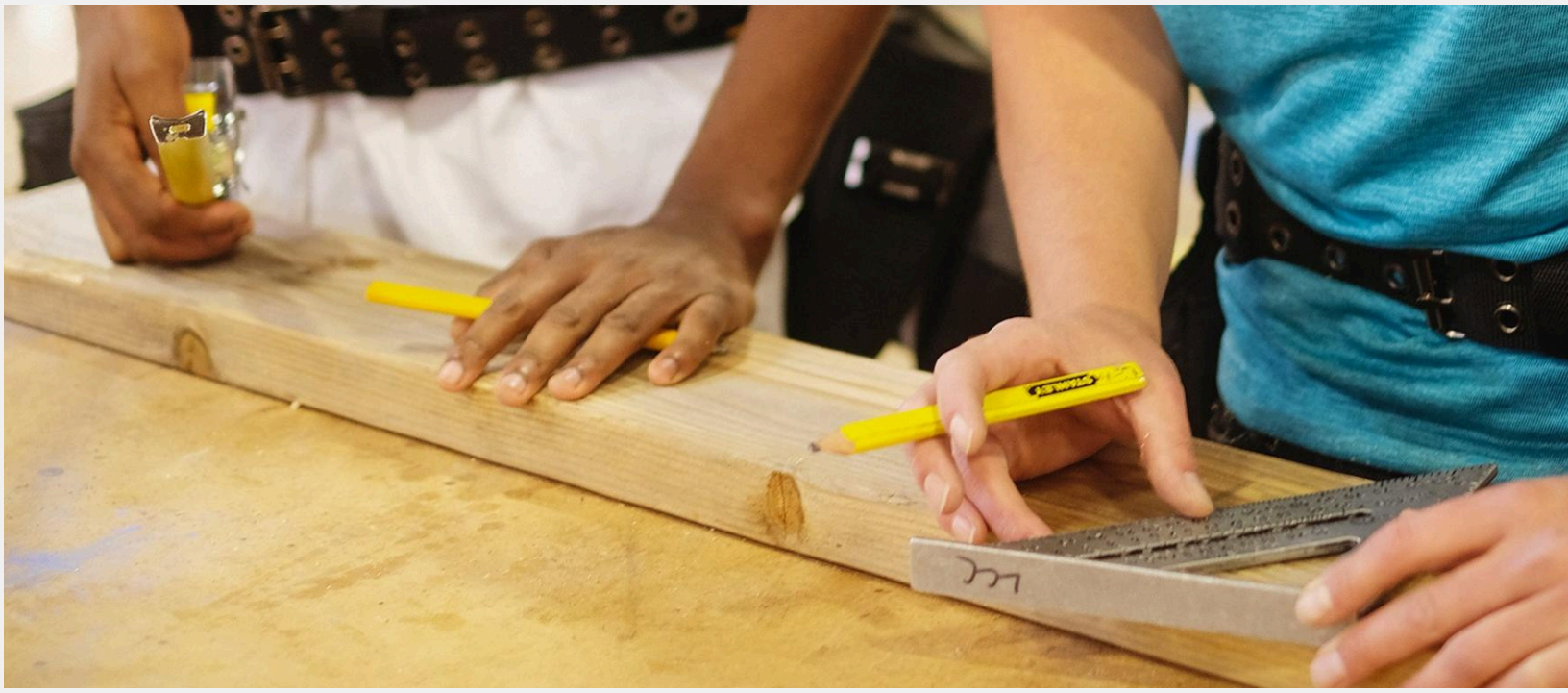
ARCHITECTUR & CONSTRUCTION

The Architecture & Construction career cluster focuses on designing, planning, managing, building, and maintaining the built environment. This career cluster includes occupations ranging from architect, carpenter, and construction manager to electrician, plumber, and heating, air conditioning, and refrigeration technician.

Carpentry





Carpentry

EXPLORE

- Construction fundamentals
- Blueprints & construction planning
- Carpentry tools & techniques
- Installation & structural systems

LEARN BY DOING

- Hands-on, industry-aligned experiences
- SkillsUSA event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Carpenter

Associate Degrees
- Construction Management
- Construction Engineering Technology
- Building Construction Technology

Bachelor's Degrees
- Construction Engineering
- Construction Science
- Construction Site Management

Master's, Doctoral, & Professional Degrees
- Construction Engineering Technology
- Construction Engineering
- Construction Management
- Project Management

BUILDING FUTURES

The **Carpentry** program of study focuses on occupational and educational opportunities related to constructing, installing, and repairing structures and fixtures made of wood (including frameworks, partitions, joists, studding, rafters, and stairways).

The program of study includes installing, dismantling, or moving machinery and heavy equipment according to layout plans, blueprints, or other drawings

CARPENTRY



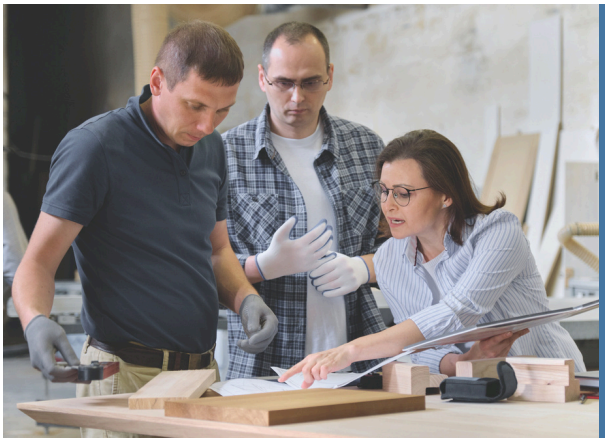
Carpenters

$47,719
Annual Median Wage

Construction & Building Inspectors

$61,505
Annual Median Wage





Construction Managers

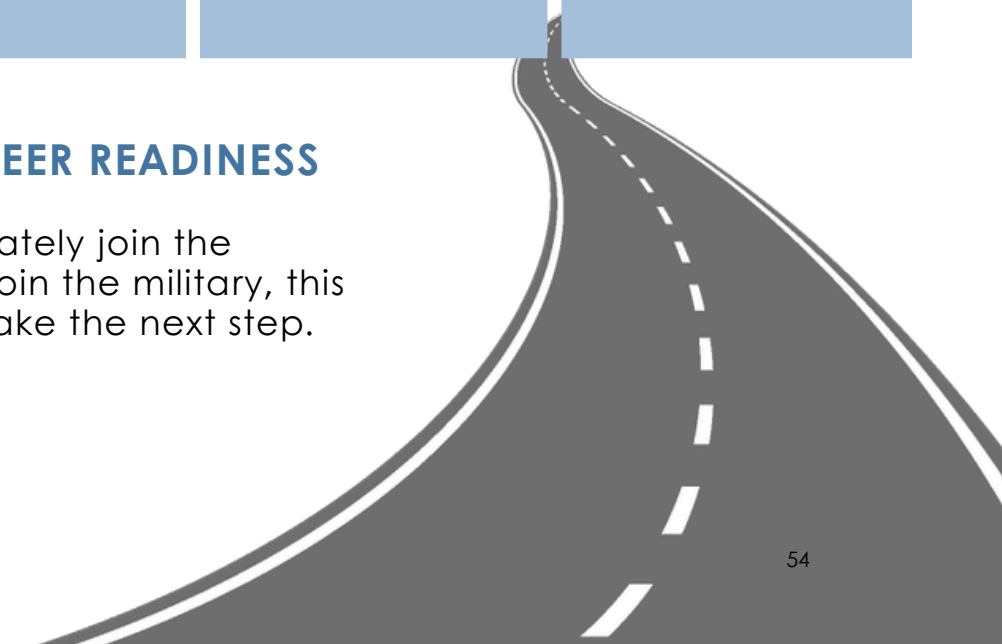
$98,294
Annual Median Wage

CARPENTRY

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Construction	• Construction Technology I	• Construction Technology II	• Practicum in Construction Technology • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Core • Carpentry • Carpentry Level 1 • Carpentry Level 2	**RECOMMENDED ADVANCED PLACEMENT** • AP Calculus AB • AP Statistics • AP Physics • AP Computer Science Principles	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



CARPENTRY COURSE DESCRIPTIONS

Principles of Construction

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
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.

Construction Technology I

Prerequisite: Principles of Construction
Grade level: 10-12 **Course credit: 2** **2 block periods, 2 semesters**
In Construction Technology I, students will gain knowledge and skills needed to enter the workforce as carpenters or building maintenance supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will acquire knowledge and skills in safety, tool usage, building materials, codes, and framing.

Construction Technology II

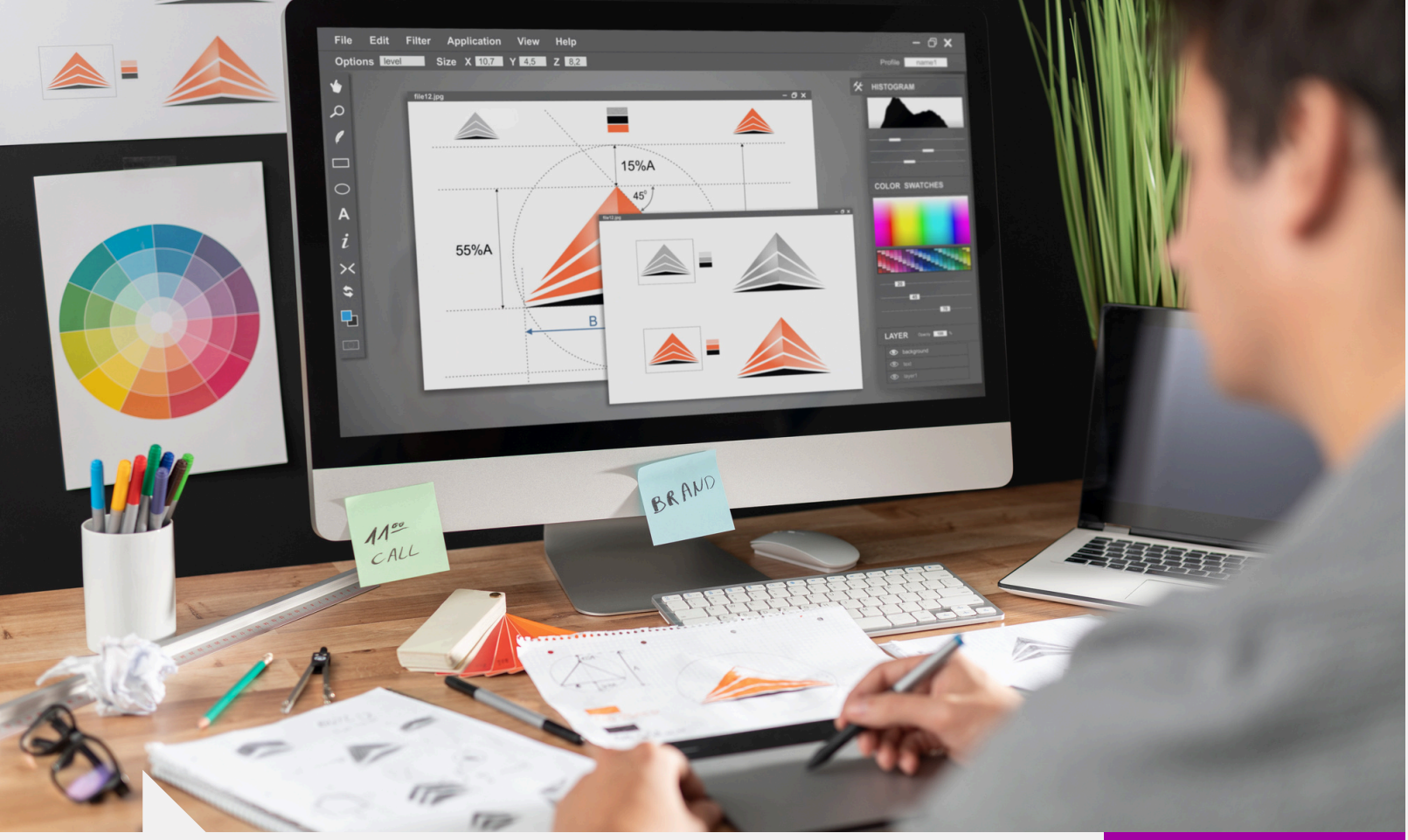
Prerequisite: Construction Technology I
Grade level: 11-12 **Course credit: 2** **2 blocked periods, 2 semesters**
In Construction Technology II, students will gain advanced knowledge and skills needed to enter the workforce as carpenters, building maintenance technicians, or supervisors or to prepare for a postsecondary degree in construction management, architecture, or engineering. Students will build on the knowledge base from Construction Technology I and are introduced to exterior and interior finish out skills.

Practicum in Construction Technology

Prerequisite: Construction Technology II
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**
In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.



ARTS, AUDIO/VIDEO TECHNOLOGY & COMMUNICATIONS

The Arts, Audio Visual Technology, & Communication (AAVTC) career cluster focuses on designing, producing, exhibiting, performing, writing, and publishing multimedia content requiring creative aptitude, fluency in computer and technology applications, and proficiency in oral and written communication. This career cluster includes occupations ranging from camera operator, audio and video technician, director, and producer to graphic designer and web and digital interface designer.

Digital Communications
Graphic Design & Multimedia





DIGITAL COMMUNICATIONS

EXPLORE

- Video production & storytelling
- Audio production & sound design
- Broadcast & media technology
- Digital media communication

LEARN BY DOING

- Hands-on, industry-aligned experiences
- SkillsUSA event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Light Technician

Associate Degrees
- Commercial & Advertising Art
- Animation, Interactive Technology, Video Graphics, & Special Effects

Bachelor's Degrees
- Cinematography & Film/Video production
- Recording Arts Technology

Master's, Doctoral, & Professional Degrees
- Animation, Interactive Technology, Video Graphics, & Special Effects
- Communications Technology

Additional Stackable IBCs/License
- CompTIA Digital Media & Entertainment Professional Certification (DMEP)

FOSTERING CURIOSITY

The **Digital Communications** program of study focuses on opportunities related to the production of audio and visual media formats for various purposes, such as TV broadcasts, advertising, video production, or motion pictures.

The program of study includes operating machines and equipment such as microphones, sound speakers, video screens and monitors, projectors, sound and mixing boards, and related electronic equipment to record sound and images.

DIGITAL COMMUNICATIONS



Auidio & Video Technicians

$48,466
Annual Median Wage

Producers & Directors

$61,827
Annual Median Wage





Camera Operators, Television, Video, & Film

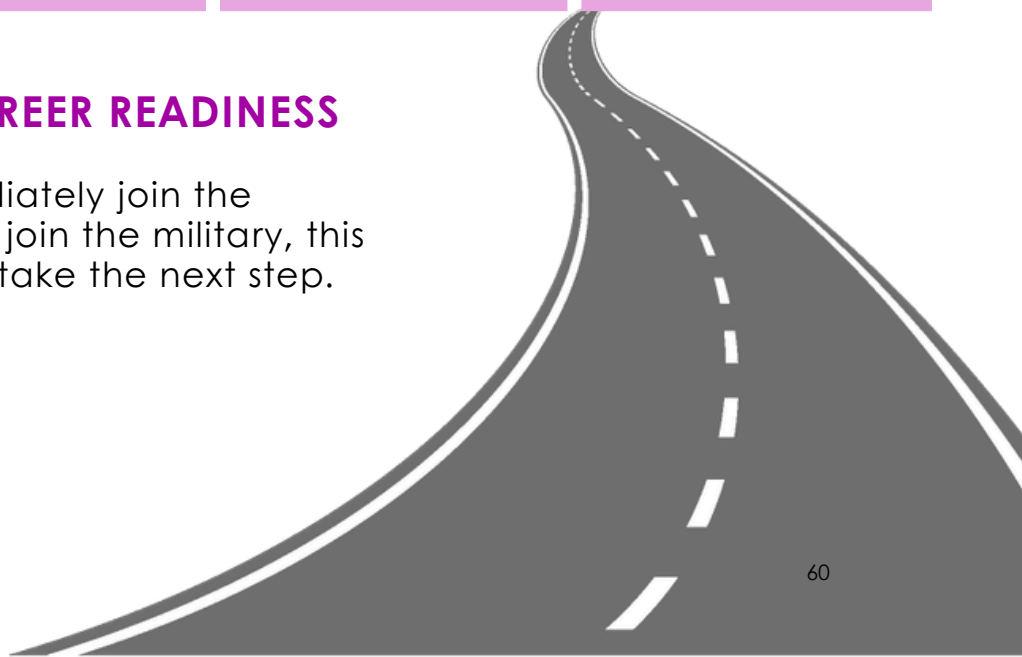
$62,701
Annual Median Wage

DIGITAL COMMUNICATIONS

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Arts, Audio/Video Technology & Communications	• Audio/Video Production I	• Audio/Video Production II + Lab	• Practicum in Audio/Video Production • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Adobe Premiere Pro • Adobe Photoshop	**RECOMMENDED ADVANCED PLACEMENT** • AP English • AP Art • AP Computer Science Principles	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



DIGITAL COMMUNICATIONS COURSE DESCRIPTIONS

Principles of Arts, A/V Technology & Communications

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

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

A/V Production I

Prerequisite: Principles of Arts, A/V Technology & Communications
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on pre-production, production, and post-production audio and video products.

A/V Production II + Lab

Prerequisite: A/V Production I
Grade level: 11-12 **Course credit: 2** **1 period, 2 semesters**
Outside of class work required

Careers in audio and video technology and film production span all aspects of the audio/video communications industry. Building upon the concepts taught in Audio/Video Production I, in addition to developing advanced knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on pre-production, production, and post-production products. Through diverse forms of storytelling and production, students will exercise and develop creativity, intellectual curiosity, critical-thinking, problem-solving, and collaborative skills. This course may be implemented in an audio format or a format with both audio and video. The required lab component of the course affords necessary time devoted specifically to the production and post-production process.

Practicum in A/V Production

Prerequisite: A/V Production II + Lab
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**

In Practicum in Construction Technology, students will be challenged with the application of knowledge and skills gained in previous construction-related coursework. In many cases students will be allowed to work at a job (paid or unpaid) outside of school or be involved in local projects the school has approved for this class.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.

GRAPHIC DESIGN & MULTIMEDIA

EXPLORE

- Graphic design & visual branding
- Digital illustration & creative design
- Animation & visual effects
- Interactive media & digital production

LEARN BY DOING

- Hands-on, industry-aligned experiences
- SkillsUSA event competitions
- Work-based learning opportunities

GET CAREER READY

Associate Degrees
- Graphic Design
- Digital Arts

Bachelor's Degrees
- Web Page, Digital/ Multimedia & Information Resource Design
- Design & Visual Communications

Master's, Doctoral, & Professional Degrees
- Game & Interactive Media Design
- Animation, Interactive Technology, Video Graphics, & Special Effects

Additional Stackable IBCs/License
- Certified Textile Designer (CTD)

FOSTERING CURIOSITY

The **Graphic Design & Interactive Media** program focuses on opportunities related to designing graphics to meet specific commercial photography needs, such as packaging, displays, or logos.

The program of study includes designing clothing and accessories, creating special effects, animation, or other visual images using film, video, computers, or other electronic tools and media for use in computer games, movies, music videos, and commercials.

GRAPHIC DESIGN & INTERACTIVE MEDIA



Graphic Designer

$50,973
Annual Median Wage

Web & Digital Interface Designer

$67,379
Annual Median Wage





Art Director

$81,926
Annual Median Wage

GRAPHIC DESIGN & INTERACTIVE MEDIA

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
			
• Principles of Arts, Audio/Video Technology & Communications	• Graphic Design & Illustration I • Commercial Photography I	• Graphic Design & Illustration II • Commercial Photography II + Lab	• Practicum in Graphic Design • Practicum in Commercial Photography • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Adobe Illustrator • Adobe InDesign • Adobe Photoshop	**RECOMMENDED ADVANCED PLACEMENT** • AP English • AP Art • AP Computer Science Principles	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.

GRAPHIC DESIGN & MULTIMEDIA COURSE DESCRIPTIONS

Principles of Arts, A/V Technology & Communications

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

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

Graphic Design & Illustration I

Prerequisite: Principles of Arts, A/V Technology & Communications
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the industry with a focus on fundamental elements and principles of visual art and design.

Commercial Photography I

Prerequisite: Principles of Arts, A/V Technology & Communications
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

Careers in commercial photography require skills that span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an understanding of the commercial photography industry with a focus on creating quality photographs.

Graphic Design & Multimedia II

Prerequisite: Graphic Design & Multimedia I
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industries. Within this context, in addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced understanding of the industry with a focus on mastery of content knowledge and skills.

Commercial Photography II + Lab

Prerequisite: Commercial Photography I
Grade level: 11-12 **Course credit: 2** **1 period, 2 semesters**
Outside of class work required

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

Practicum in Graphic Design

Prerequisite: Graphic Design II
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**

Careers in graphic design and illustration span all aspects of the advertising and visual communications industry. Within this context, in addition to developing technical knowledge and skills needed for success in the Arts, Audio Visual Technology, and Communications Career Cluster, students will be expected to develop a technical understanding of the industry with a focus on skill proficiency. Instruction may be delivered through lab-based classroom experiences or career preparation opportunities.

Practicum in Commercial Photography

Prerequisite: Commercial Photography II + Lab
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**

Careers in commercial photography span all aspects of the industry from setting up a shot to delivering products in a competitive market. In addition to developing advanced technical knowledge and skills needed for success in the Arts, Audio/Video Technology, and Communications Career Cluster, students will be expected to develop an advanced technical understanding of the commercial photography industry with a focus on producing, promoting, and presenting professional quality photographs.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning

Career Preparation and Extended Career Preparation provide 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.



BUSINESS, MARKETING & FINANCE

The Business, Marketing, & Finance career cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. This career cluster includes occupations ranging from business owner and entrepreneur to accountant, retail manager, and market analyst.

Accounting & Financial Svcs
Business Management
Entrepreneurship
Marketing & Sales





ACCOUNTING & FINANCIAL SERVICES

EXPLORE

- Financial records & accounting systems
- Financial statement preparation
- Auditing & financial analysis
- Financial modeling & decision making

LEARN BY DOING

- Hands-on, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Associate Degrees
- Accounting
- Bookkeeping

Bachelor's Degrees
- Accounting
- Banking & Financial Support Services

Master's, Doctoral, & Professional Degrees
- Business Administration & Management
- Finance

Additional Stackable IBCs/License
- Property Management Professional
- Property Tax Consultants Services Contract Providers

EMPOWERING FUTURES

The **Accounting & Financial Services** program of study focuses on occupational and educational opportunities associated with examining, analyzing, and interpreting financial records. It includes exploration of financial services, preparing financial statements, auditing financial statements prepared by others, and interpreting accounting records.

This program of study also introduces students to mathematical modeling tools.

ACCOUNTING & FINANCIAL SERVICES

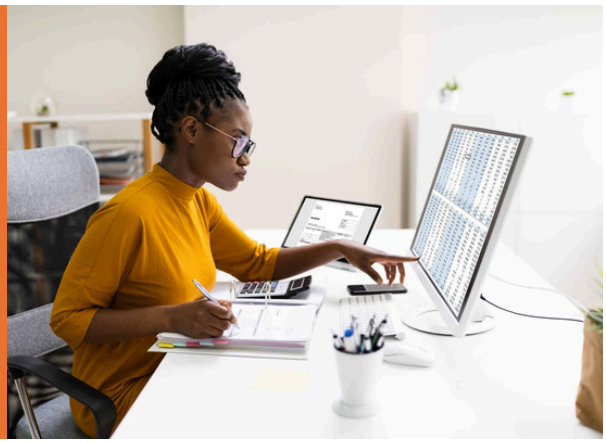


Tax Preparers

$47,801
Annual Median Wage

Accountants & Auditors

$78,899
Annual Median Wage





Personal Financial Advisors

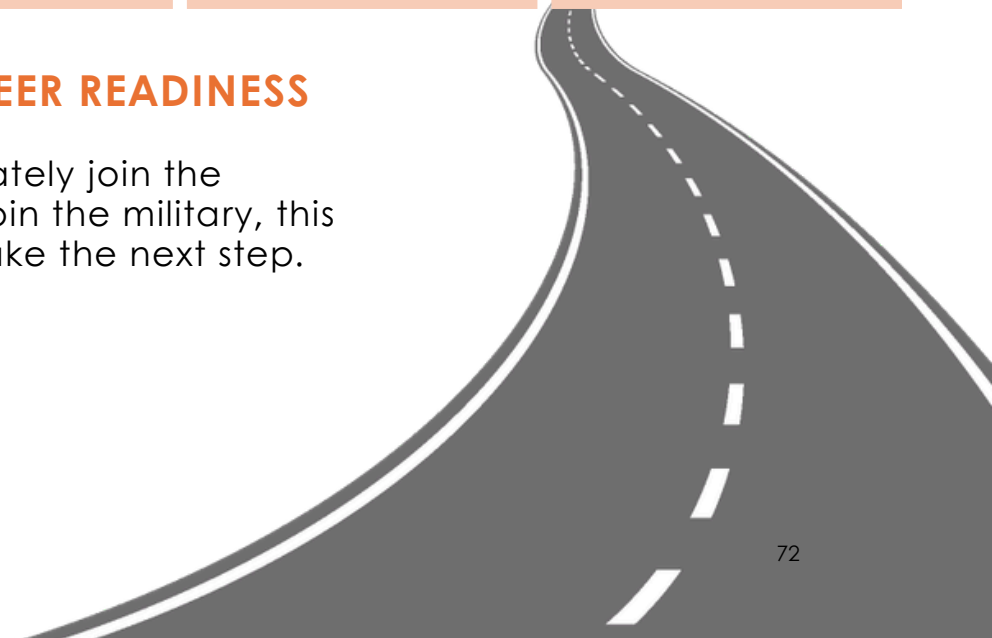
$81,658
Annual Median Wage

ACCOUNTING & FINANCIAL SERVICES

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Business, Marketing & Finance	• Money Matters • Accounting I	• Accounting II	• Practicum in Business Management • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Volunteer Income Tax Assistant • Microsoft Excel Expert	**RECOMMENDED ADVANCED PLACEMENT** • AP Economics • AP Statistics	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



ACCOUNTING & FINANCIAL SERVICES COURSE DESCRIPTIONS

Principles of Business, Marketing, & Finance

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Foundations of Business Communications & Technologies

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
In Foundations of Business Communication & Technologies, 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 post-secondary 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.

Money Matters

Prerequisite or Corequisite: Principles of Business, Marketing, & Finance
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
In Money Matters, students will investigate money management from a personal financial perceptive. Students will apply critical-thinking skills to analyze financial options based on current and projected economic factors. Students will gain knowledge and skills necessary to establish short-term and long-term financial goals. Students will examine various methods of achieving short-term and long-term financial goals through various methods such as investing, tax planning, asset allocating, risk management, retirement planning, and estate planning.

Accounting I

Prerequisite or Corequisite: Principles of Business, Marketing, & Finance
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
In Accounting I, students will investigate the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in the process of recording, classifying, summarizing, analyzing, and communicating accounting information. Students will formulate and interpret financial information for use in management decision making.

Accounting II^

Prerequisite: Accounting I
Grade level: 11-12 **Course credit: 1** ^Math credit **1 period, 2 semesters**
In Accounting II, students will continue the investigation of the field of accounting, including how it is impacted by industry standards as well as economic, financial, technological, international, social, legal, and ethical factors. Students will reflect on this knowledge as they engage in various managerial, financial, and operational accounting activities.

Students will formulate, interpret, and communicate financial information for use in management decision making. Students will use equations, graphical representations, accounting tools, spreadsheet software, and accounting systems in real-world situations to maintain, monitor, control, and plan the use of financial resources.

Practicum in Business Management

Prerequisite: 2+ courses for 2+ credits in aligned program of study
Grade level: 12 Course credit: 2 2 block periods, 2 semesters

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or post-secondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning

Career Preparation and Extended Career Preparation provide 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.

BUSINESS MANAGEMENT

EXPLORE

- Business operations & leadership
- Management & decision making
- Human resources & resource management
- Business analysis & strategic planning

LEARN BY DOING

- Hands-on, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Associate Degrees
- Business Administration & Management
- Human Resource Management

Bachelor's Degrees
- Business Analytics
- Accounting & Business

Master's, Doctoral, & Professional Degrees
- Business Administration & Management
- Organizational Leadership

Additional Stackable IBCs/License
- Professional Certificate in Team Leadership
- Property Tax Professionals

EMPOWERING FUTURES

The **Business Management** program of study focuses on occupational and educational opportunities associated with planning, directing, and coordinating the administrative services and operations of an organization. It includes formulating policies, managing daily operations, and allocating the use of materials and human resources.

This program of study also introduces students to mathematical modeling tools and organizational evaluation methods.

BUSINESS MANAGEMENT



First-line Supervisors of Office & Administrative Support Workers

$61,735
Annual Median Wage

Human Resources Specialists

$62,049
Annual Median Wage





General & Operations Managers

$96,046
Annual Median Wage

BUSINESS MANAGEMENT

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Business, Marketing & Finance • Foundations of Business Communications & Technologies	• Business Management	• Statistics & Business Decision Making	• Practicum in Business Management • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Microsoft Word Expert • Entrepreneurship & Small Business	**RECOMMENDED ADVANCED PLACEMENT** • AP Economics • AP Statistics	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



BUSINESS MANAGEMENT COURSE DESCRIPTIONS

Principles of Business, Marketing, & Finance

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Foundations of Business Communications & Technologies

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
In Foundations of Business Communication & Technologies, 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 post-secondary 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.

Business Management

Prerequisite or Corequisite: Principles of Business, Marketing, & Finance
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
Business Management is designed to familiarize students with the concepts related to business management as well as the functions of management, including planning, organizing, staffing, leading, and controlling. Students will also demonstrate interpersonal and project-management skills.

Statistics & Business Decision Making

Prerequisite: Algebra II
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Practicum in Business Management

Prerequisite: 2+ courses for 2+ credits in aligned program of study
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**
Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or post-secondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing,

computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.

ENTREPRENEURSHIP

EXPLORE

- Business creation & startup development
- Innovation & opportunity recogniton
- Business operations & management
- Leadership & strategic planning

LEARN BY DOING

- Hands-on, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Associate Degrees
- Operations Management & Supervision
- Organizational Leadership

Bachelor's Degrees
- Business Administration & Management
- Public Administration

Master's, Doctoral, & Professional Degrees
- Business Administration
- Public Administration

Additional Stackable IBCs/License
- Salesforce
- Service Contract Providers

EMPOWERING FUTURES

The **Entrepreneurship** program of study focuses on occupational and educational opportunities associated with planning, launching, directing, and coordinating public or private sector ventures.

This program of study includes formulating policies, launching businesses or organizations, managing daily operations, analyzing management structures, and planning for the use of materials and human resources.

ENTREPRENEURSHIP



Management Analysts

$95,756
Annual Median Wage

General & Operations Managers

$96,046
Annual Median Wage





Chief Executives

$160,586
Annual Median Wage

ENTREPRENEURSHIP

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Business, Marketing & Finance • Foundations of Business Communications & Technologies	• Entrepreneurship I	• Entrepreneurship II • Statistics & Business Decision Making	• Practicum in Business Management • CTE Project-Based Capstone • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Entrepreneurship & Small Business	**RECOMMENDED ADVANCED PLACEMENT** • AP English • AP Economics • AP Statistics	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



ENTREPRENEURSHIP COURSE DESCRIPTIONS

Principles of Business, Marketing, & Finance

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Foundations of Business Communications & Technologies

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
In Foundations of Business Communication & Technologies, 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 post-secondary 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.

Entrepreneurship I

Prerequisite: None
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
In Entrepreneurship, students will gain the knowledge and skills needed to become an entrepreneur. Students will learn the principles necessary to begin and operate a business. The primary focus of the course is to help students understand the process of analyzing a business opportunity, preparing a business plan, determining feasibility of an idea using research, and developing a plan to organize and promote the business and its products and services. In addition, students will understand the capital required, the return on investment desired, and the potential for profit.

Entrepreneurship II

Prerequisite: Entrepreneurship I
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
Students will work in close cooperation with local industry leaders, community members, and educators to develop ideas and objectives, complete a business model canvas, pitch to potential investors, register with governmental agencies, and develop brand identity. The goal and outcome of the course is to have a business launched by the end of the course or have the tools necessary to launch and operate a business.

Statistics & Business Decision Making

Prerequisite: Algebra II
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

CTE Project-Based Capstone

Prerequisite: 3+ courses for 3+ credits in aligned program of study
Grade level: 12 Course credit: 1 1 period, 2 semesters

Career and Technical Education Project-Based Capstone is a course designed for students to develop and enhance essential skills while investigating real-world problems, issues, or interests. Students work independently or collaboratively with others within or across career clusters or programs of study. Students partner with mentor(s) or advisor(s) to develop a project. Students conduct research, compile findings, implement project activities appropriate to student contribution, and present their work to a relevant audience that may include industry experts. To attain academic success, students must have opportunities to learn, reinforce, apply, and transfer their knowledge and skills in a variety of settings to become productive and contributing members of society.

Practicum in Business Management

Prerequisite: 2+ courses for 2+ credits in aligned program of study
Grade level: 12 Course credit: 2 2 block periods, 2 semesters

Practicum in Business Management is designed to give students supervised practical application of previously studied knowledge and skills. Practicum experiences occur in a paid or unpaid arrangement and a variety of locations appropriate to the nature and level of experience. Students implement personal and interpersonal skills to strengthen individual performance in the workplace and in society and to make a successful transition to the workforce or post-secondary education. Students apply technical skills to address business applications of emerging technologies. Students develop a foundation in the economic, financial, technological, international, social, and ethical aspects of business to become competent consumers, employees, and entrepreneurs. Students enhance reading, writing, computing, communication, and reasoning skills and apply them to the business environment. Students incorporate a broad base of knowledge that includes the legal, managerial, marketing, financial, ethical, and international dimensions of business to make appropriate business decisions.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning

Career Preparation and Extended Career Preparation provide 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.

MARKETING & SALES

EXPLORE

- Marketing research & consumer insights
- Advertising & promotional campaigns
- Sales strategies & customer engagement
- Data-driven marketing decisions

LEARN BY DOING

- Hands-on, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Associate Degrees
- Marketing/Marketing Management

Bachelor's Degrees
- Business Administration
- Marketing/Marketing Management
- Fashion Merchandising

Master's, Doctoral, & Professional Degrees
- Business Administration
- Applied Economics
- Business Analytics

Additional Stackable IBCs/License
- Salesforce
- Service Contract Providers

EMPOWERING FUTURES

The **Marketing & Sales** program of study focuses on occupational and educational opportunities associated with collecting information to estimate potential sales of a product or service and create campaigns to market or distribute goods and services.

It includes applying data related to customer demographics, preferences, needs, and buying habits.

MARKETING & SALES



Sales Representatives of Services

$60,701
Annual Median Wage

Marketing Research Analysts

$64,690
Annual Median Wage





Sales Managers

$127,559
Annual Median Wage

MARKETING & SALES

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Business, Marketing & Finance	• Virtual Business • Sports & Entertainment Marketing • Social Media Marketing • Advertising	• Statistics & Business Decision Making	• Advanced Marketing • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Entrepreneurship & Small Business	**RECOMMENDED ADVANCED PLACEMENT** • AP English • AP Economics • AP Statistics	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



MARKETING & SALES COURSE DESCRIPTIONS

Principles of Business, Marketing, & Finance

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
In Principles of Business, Marketing, and Finance, students gain knowledge and skills in economies and private enterprise systems, the impact of global business, the marketing of goods and services, advertising, and product pricing. Students analyze the sales process and financial management principles. This course allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings in business, marketing, and finance.

Virtual Business

Recommended Prerequisite or Corequisite: Principles of Business, Marketing, & Finance
Grade level: 10-12 **Course credit: .5** **1 period, 1 semester**
Virtual Business is designed for students to start a virtual business by creating a web presence, conducting online and off-line marketing, examining contracts appropriate for an online business, and demonstrating project-management skills. Students will also demonstrate bookkeeping skills for a virtual business, maintain business records, and understand legal issues associated with a virtual business.

Sports & Entertainment Marketing

Recommended Prerequisite or Corequisite: Principles of Business, Marketing, & Finance
Grade level: 10-12 **Course credit: .5** **1 period, 1 semester**
Sports and Entertainment Marketing will provide students with a thorough understanding of the marketing concepts and theories that apply to sports and entertainment. The areas this course will cover include basic marketing concepts, publicity, sponsorship, endorsements, licensing, branding, event marketing, promotions, and sports and entertainment marketing strategies.

Social Media Marketing

Recommended Prerequisite or Corequisite: Principles of Business, Marketing, & Finance
Grade level: 10-12 **Course credit: .5** **1 period, 1 semester**
Social Media Marketing is designed to look at the rise of social media and how marketers are integrating social media tools in their overall marketing strategy. The course will investigate how the marketing community measures success in the new world of social media. Students will manage a successful social media presence for an organization, understand techniques for gaining customer and consumer buy-in to achieve marketing goals, and properly select social media platforms to engage consumers and monitor and measure the results of these efforts.

Advertising

Prerequisite: 3+ courses for 3+ credits in aligned program of study
Grade level: 10-12 **Course credit: .5** **1 period, 1 semester**
Advertising is designed as a comprehensive introduction to the principles and practices of advertising. Students will gain knowledge of techniques used in current advertising, including print, broadcast, and digital media. The course explores the social, cultural, ethical, and legal issues of advertising, historical influences, strategies, media decision processes as well as integrated marketing communications, and careers in advertising and

sales promotion. The course provides an overview of how communication tools can be used to reach target audiences and increase consumer knowledge.

Statistics & Business Decision Making

Prerequisite: Algebra II
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
Statistics and Business Decision Making is an introduction to statistics and the application of statistics to business decision making. Students will use statistics to make business decisions. Students will determine the appropriateness of methods used to collect data to ensure conclusions are valid.

Advanced Marketing

Prerequisite: 2+ courses for 2+ credits in aligned program of study
Grade level: 11-12 **Course credit: 2** **2 block periods, 2 semesters**
In Advanced Marketing, students will gain knowledge and skills that help them become proficient in one or more of the marketing functional areas. Students will illustrate appropriate management and research skills to solve problems related to marketing. This course covers technology, communication, and customer-service skills.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.



EDUCATION & TRAINING

The Education & Training career cluster focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to the various careers available within the Education and Training career cluster. This career cluster includes a diverse spectrum of occupations, ranging from teaching assistant, classroom teacher, to school administrator.

Teaching & Training





TEACHING & TRAINING

EXPLORE

- Teaching & learning foundations
- Instructional strategies & classroom support
- Child & adolescent development
- Education careers & leadership

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Teacher Apprentice

Associate Degrees
- Adult & Continuing Education & Teaching
- Educational/Instructional Technology

Bachelor's Degrees
- Elementary Education & Teaching
- Secondary Education & Teaching

Master's, Doctoral, & Professional Degrees
- Educational Leadership & Administration, General
- Curriculum & Instruction

Additional Stackable IBCs/License
- Generalist, Grades EC-4

EMPOWERING FUTURES

The **Teaching & Training** program of study focuses on opportunities associated with careers related to teaching, instructing, and creating instructional and enrichment materials.

The program of study includes recognizing a variety of student groups and their corresponding needs, identifying processes for developing curriculum and coordinating educational content, and coaching groups and individuals.

TEACHING & TRAINING



Teaching Assistants, Except Postsecondary

$29,358
Annual Median Wage

Secondary School Teachers, Except Special Education & CTE

$64,009
Annual Median Wage





Education Administrators, Kindergarten through Secondary

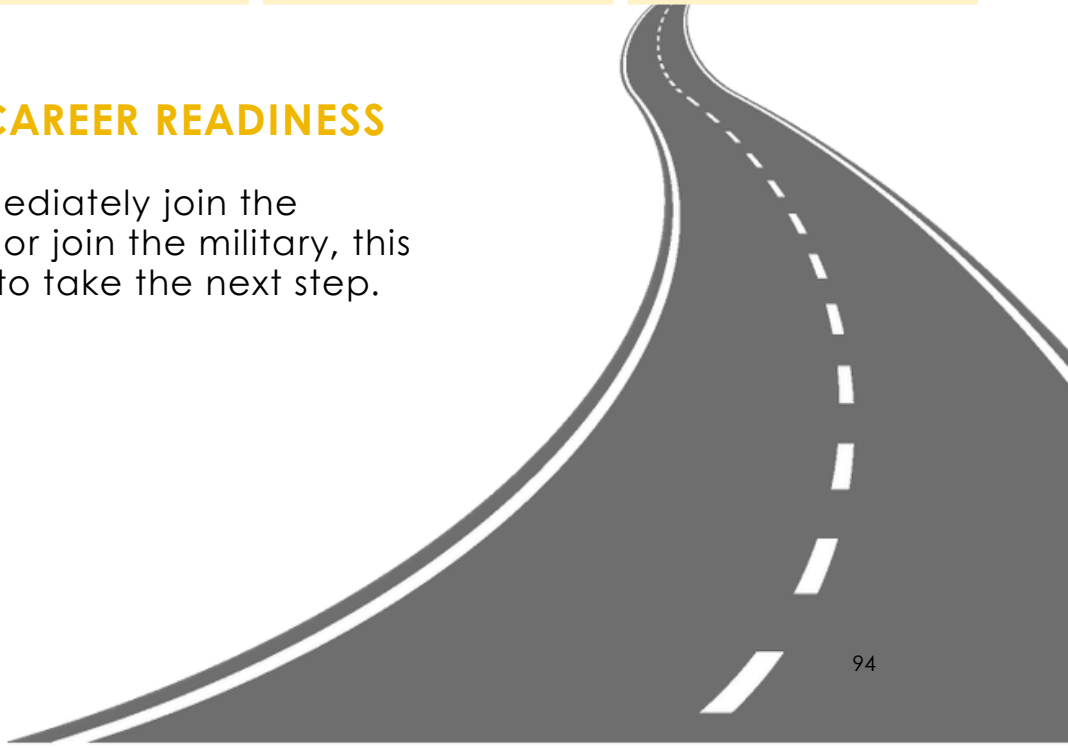
$86,768
Annual Median Wage

TEACHING & TRAINING

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Human Services	• Child Development	• Instructional Practices	• Practicum in Education & Training • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Public Service	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Educational Aide I	**RECOMMENDED ADVANCED PLACEMENT** • AP English • AP Psychology	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



TEACHING & TRAINING COURSE DESCRIPTIONS

Principles of Human Services

Prerequisite: None
Grade level: 9-12 Course credit: 1 1 period, 2 semesters
Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer 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

Recommended Prerequisite or Corequisite: Principles of Human Services
Grade level: 10-12 Course credit: 1 1 period, 2 semesters
Child Development is a course that addresses knowledge and skills related to child growth and development from prenatal through school-age children. 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.

Instructional Practices

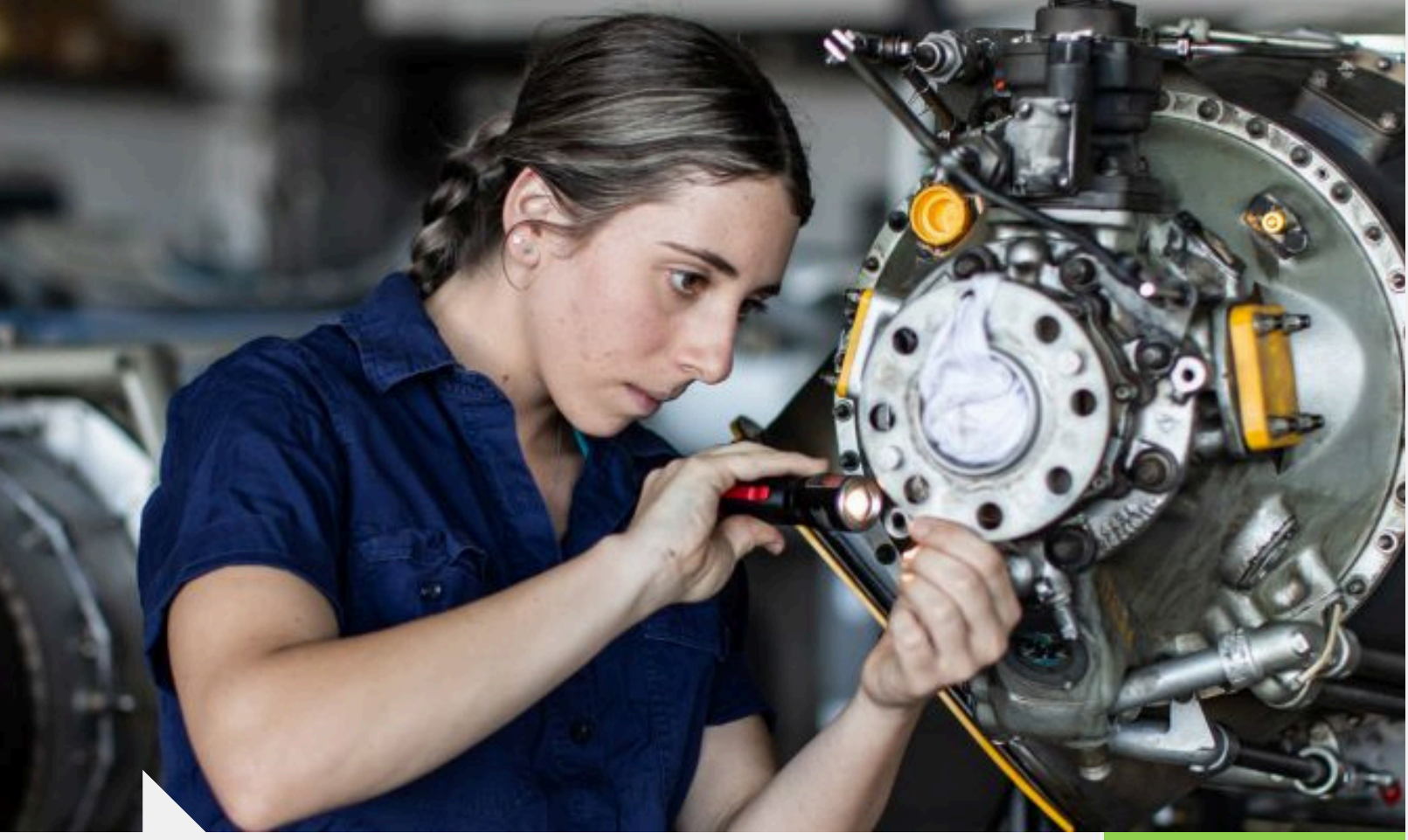
Prerequisite: Child Development
Grade level: 11-12 Course credit: 2 2 blocked periods, 2 semesters
Instructional Practices is a field-based (practicum) course that provides students with background knowledge of child and adolescent development as well as principles of effective teaching and training 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 perform other duties of teachers, trainers, paraprofessionals, or other educational personnel.

Practicum in Education & Training

Prerequisite: 2+ courses for 2+ credits in aligned program of study
Grade level: 12 Course credit: 2 2 block periods, 2 semesters
Practicum in Education and Training is a field-based course that provides students with background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school- and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and perform other duties of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Career Preparation or Extended Career Preparation

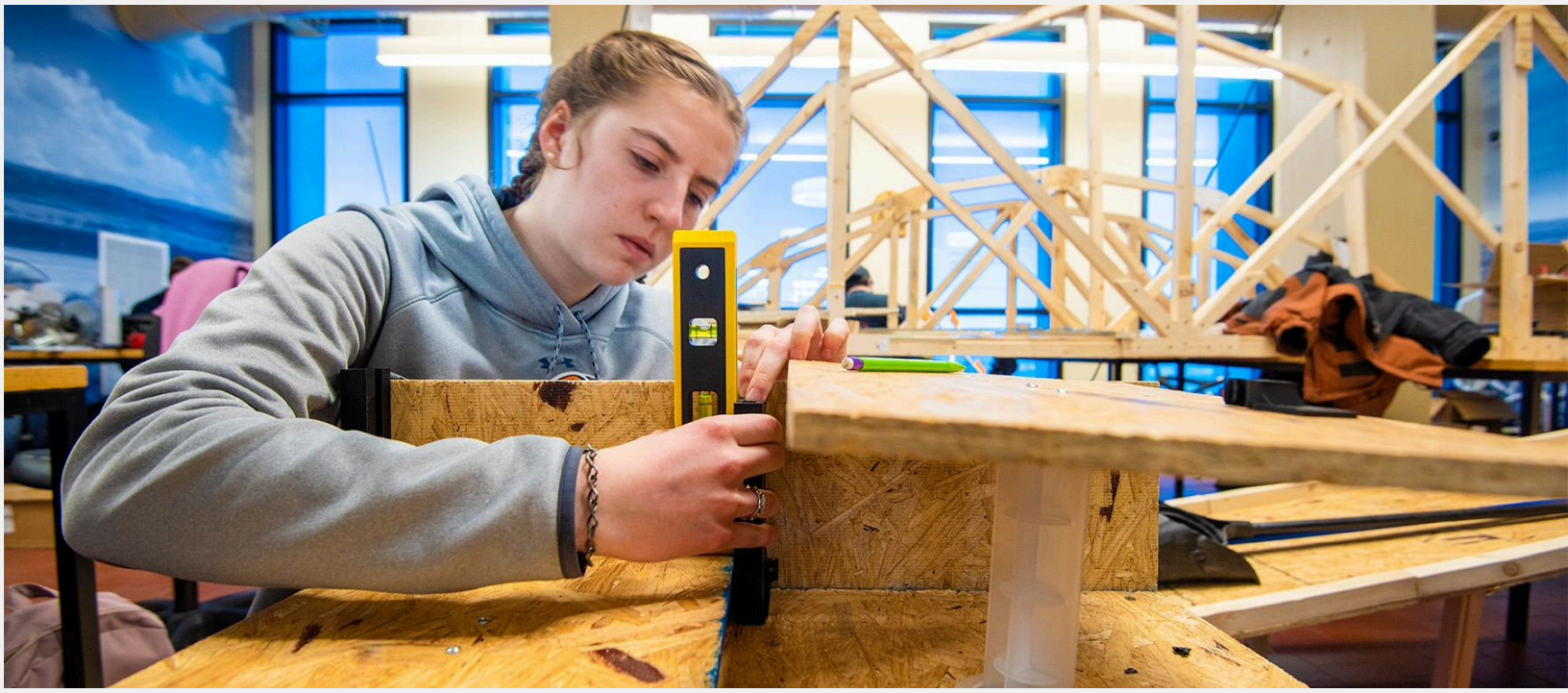
Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.

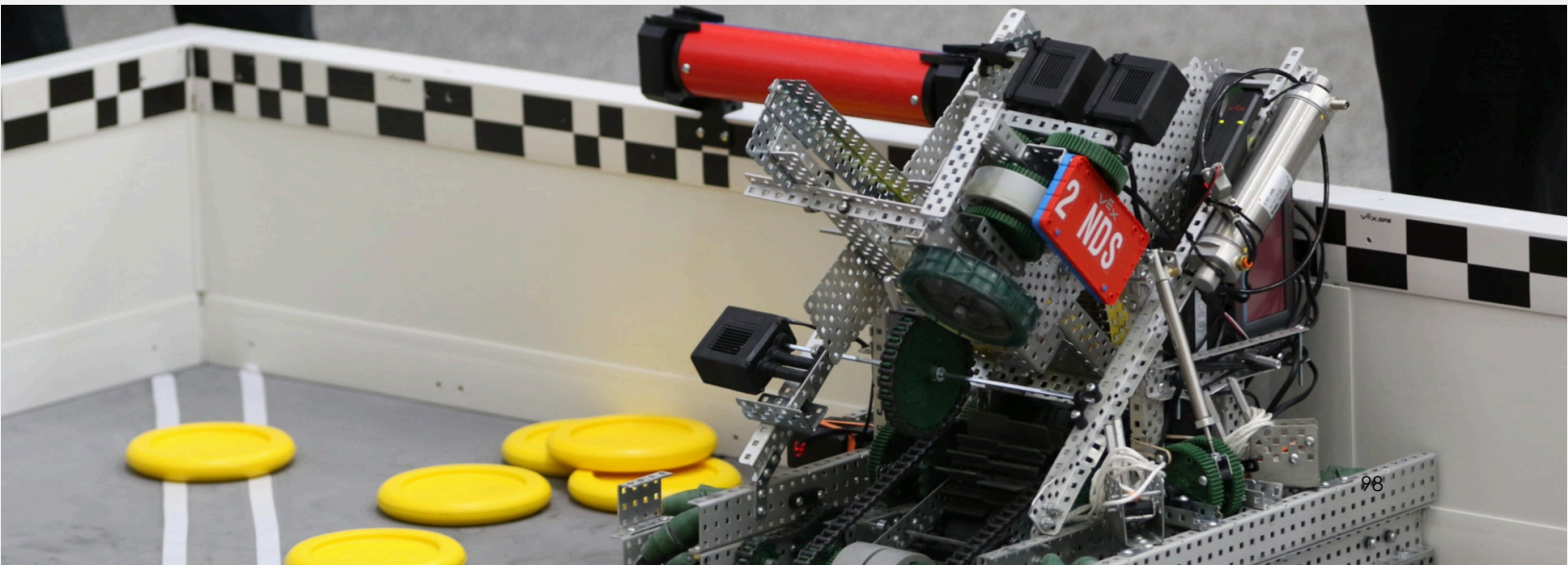


ENGINEERING

The Engineering Career Cluster focuses on the planning, designing, testing, building, and maintaining of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles.

Engineering Foundations





ENGINEERING FOUNDATIONS

EXPLORE

- Engineering design & problem solving
- Systems, machines & structures
- Applied Science & Mathematics
- Testing, evaluating, & innovation

LEARN BY DOING

- Engaging, industry-aligned experiences
- VEX event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Industrial Engineering Technician

Associate Degrees
- Manufacturing Engineering Technology/Technician
- Robotics Technology/Technician

Bachelor's, Master's Doctoral, & Professional Degrees
- Electrical & Electronics Engineering
- Engineering, General

Additional Stackable IBCs/License
- Professional Engineer (PE License)
- Engineer in Training Certificdation (EIT)

INSPIRING INNOVATION

The **Engineering Foundations** program of study focuses on occupational and educational opportunities associated with a wide range of skills applied in the Engineering industry. Students will design, test, and evaluate projects related to engines, machines, and structures.

This program of study incudes applying scientific, mathematical, and empirical evidence to solve problems through innovation, design, construction, operation, and maintenance of different engineering systems.

ENGINEERING FOUNDATIONS



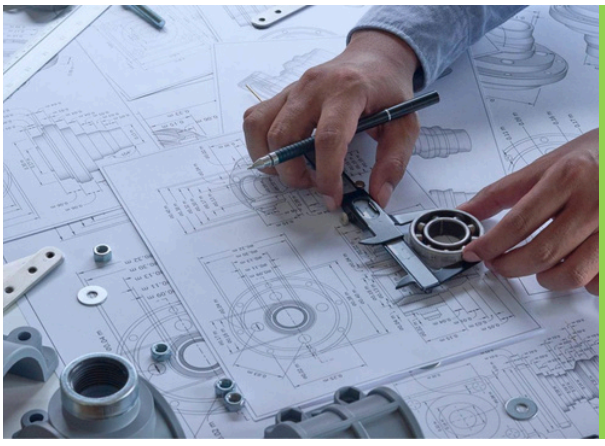
Civil Engineering Technologists & Technicians

$60,297
Annual Median Wage

Civil Engineers

$82,483
Annual Median Wage





Mechanical Engineers

$103,189
Annual Median Wage

ENGINEERING FOUNDATIONS

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
			
• Gateway I (PLTW) • Principles of Applied Engineering • Engineering Design Process	• Engineering Science • Digital Electronics	• Architectural Engineering	• Scientific Research & Design • Career Preparation for Program of Study
ALIGNED ENDORSEMENT • Business & Industry • STEM* *With required math & science credits	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Autodesk Certified Professional in Inventor • Autodesk Certified Professional in Revit	**RECOMMENDED ADVANCED PLACEMENT** • AP Physics • AP Calculus • AP Statistics • AP Computer Science Principles • AP Computer Science A	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.

ENGINEERING FOUNDATIONS COURSE DESCRIPTIONS

Gateway I (PLTW)*

*Course does not count toward POS completer status

Prerequisite: None

Grade level: 7 **Course credit: 1** **1 period, 2 semesters**

Students trace the history, development, and influence of automation and robotics as they learn about mechanical systems, energy transfer, machine automation, and computer control systems. Students use the VEX Robotics platform to design, build, and program real-world objects such as traffic lights, toll booths, and robotic arms. (PLTW Flight & Space + App Creators)

Principles of Applied Engineering

Prerequisite: None

Grade level: 7-8 **Course credit: 1** **1 period, 2 semesters**

Principles of Applied Engineering provides an overview of the various fields of science, technology, engineering, and mathematics and their interrelationships. Students develop engineering communication skills, which include computer graphics, modeling, and presentations, by using a variety of computer hardware and software applications to complete assignments and projects. Upon completing this course, students will have an understanding of the various fields of engineering and be able to make informed career decisions.

Engineering Design Process

Prerequisite: None

Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

Engineering Design Process is an engineering course applicable to all engineering fields. Students use an iterative engineering design process to solve problems, make decisions, and manage a project. Professional practices are addressed, including development of a problem statement, maintenance of documentation, use of an engineering notebook, research, project management, internal and external communication, and creation of technical drawings and prototypes. The student delivers a professional presentation detailing the experience of working through each step of the engineering design process.

Engineering Science^

Prerequisite: Algebra I, Biology, and 1+ course for 1+ credit in Engineering career cluster

Grade level: 10-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**

Engineering Science is an engineering course designed to expose students to some of the major concepts and technologies that they will encounter in a postsecondary program of study in any engineering domain. Students will have an opportunity to investigate engineering and high-tech careers. In Engineering Science, students will employ science, technology, engineering, and mathematical concepts in the solution of real-world challenge situations. Students will develop problem-solving skills and apply their knowledge of research and design to create solutions to various challenges. Students will also learn how to document their work and communicate their solutions to their peers and members of the professional community.

Digital Electronics^

Prerequisite: Algebra I, Geometry

Grade level: 10-12 **Course credit: 1** ^Math credit **1 period, 2 semesters**

Digital Electronics is the study of electronic circuits that are used to process and control digital signals. In contrast to analog electronics, where information is represented by a continuously varying voltage, digital signals are represented by two discreet voltages or logic levels. This distinction allows for greater signal speed and storage capabilities and has revolutionized the world of electronics. Digital electronics is the foundation of modern electronic devices such as cellular phones, digital audio players, laptop computers, digital cameras, and high-definition televisions. The primary focus of Digital Electronics is to expose students to the design process of combinational and sequential logic design, teamwork, communication methods, engineering standards, and technical documentation.

Architectural Engineering

Pre- or co-requisite: Introduction to Engineering Design

Grade level: 11-12 **Course credit: 2*** **1 period, 2 semesters**

*2 credit course scheduled for 1 period

Students enrolled in Architectural Engineering use principles of engineering and design tools to create innovative, functional, and sustainable buildings. Students develop cursory knowledge and essential skills to understand the design of buildings, including the mechanical, electrical, plumbing, and structural systems, while also planning the construction process. They engage in project planning, building and system analysis, site investigation, and the integration of sustainable design and construction practices for an architectural engineering project.

Scientific Research & Design

Prerequisite: Biology, Chemistry, IPC or Physics, and 2+ courses for 2+ credits in Engineering Career cluster

Grade level: 12 **Course credit: 1** **1 period, 2 semesters**

Scientific Research and Design is a broad-based course designed to allow districts and schools considerable flexibility to develop local curriculum to supplement any program of study or coherent sequence. The course has the components of any rigorous scientific or engineering program of study from the problem identification, investigation design, data collection, data analysis, formulation, and presentation of the conclusions. All of these components are integrated with the career and technical education emphasis of helping students gain entry-level employment in high-skill, high-wage jobs and/or continue their education.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course

Grade level: 12

Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning

Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning

Career Preparation and Extended Career Preparation provide 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.



HEALTH SCIENCE

The Health Science career cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. This career cluster includes occupations ranging from medical assistant, registered nurse, and physical therapist to forensic science technician and athletic trainer.

Biomedical Science
Diagnostic & Therapeutic Svcs
Exercise Science
Nursing Science





BIOMEDICAL SCIENCE

EXPLORE

- Human body & medical science
- Disease research & diagnosis
- Patient care & clinical skills
- Healthcare communication & ethics

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Medical Laboratory Technician

Associate Degrees
- Biotechnology
- Biological Sciences

Bachelor's
- Aeronautical/Aerospace Biology
- Cellular & Molecular Biology

Master's, Doctoral, & Professional Degrees
- Forensic Science & Technology
- Biomedical Sciences

Additional Stackable IBCs/License
- Cytotechnologist

ADVANCING CARE

The **Biomedical Science** program of study focuses on occupational and educational opportunities associated with the study of biology and medicine.

This program of study includes researching and diagnosing diseases, pre-existing conditions, and other determinants of health. Students will also practice patient care and communication.

BIOMEDICAL SCIENCE



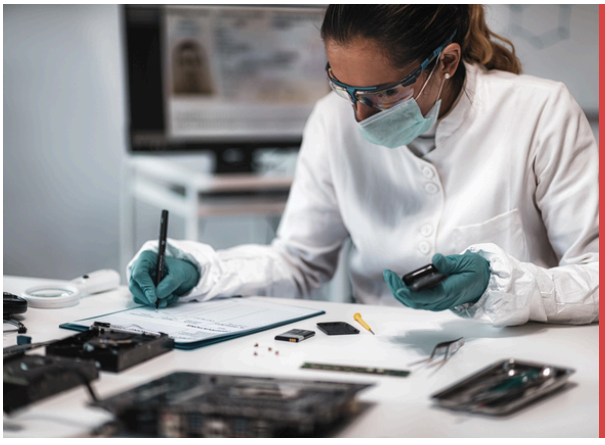
Medical Equipment Preparers

$44,460
Annual Median Wage

Biological Technicians

$47,968
Annual Median Wage





Forensic Science Technicians

$55,598
Annual Median Wage

BIOMEDICAL SCIENCE

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Health Science • Principles of Biomedical Science (PLTW) • Medical Terminology	• Biotechnology I	• Anatomy & Physiology • Medical Microbiology • Pathophysiology	• Practicum in Health Science • Career Preparation for Program of Study
ALIGNED ENDORSEMENT • Public Service • STEM* *With required math & science credits	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • TBA	**RECOMMENDED ADVANCED PLACEMENT** • AP Biology • AP Chemistry • AP Statistics • AP Psychology	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.

BIOMEDICAL SCIENCE COURSE DESCRIPTIONS

Principles of Health Science

Prerequisite: None

Grade level: 7^-12 **Course credit: 1** **1 period, 2 semesters**

^7th grade at South Belton Middle School only

The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Principles of Biomedical Science (PLTW)

Prerequisite: Principles of Health Science

Grade level: 8-12 **Course credit: 1** **1 period, 2 semesters**

The Principles of Biomedical Science (PBS)- PLTW course provides an introduction to biomedical science through hands-on projects and problems. Students investigate concepts of biology and medicine as they explore health conditions including heart disease, diabetes, sickle-cell disease, hypercholesterolemia, and infectious diseases. They will determine the factors that led to the death of a fictional woman as they sequentially piece together evidence found in her medical history and her autopsy report. Students will investigate lifestyle choices and medical treatments that might have prolonged the woman's life and demonstrate how the development of disease is related to changes in human body systems. The activities, projects and problems in PBS-PLTW introduce students to human physiology, basic biology, medicine, and research processes and allows students to design experiments to solve problems. Key biological concepts, including maintenance of homeostasis in the body, metabolism, inheritance of traits, and defense against disease are embedded in the curriculum.

Medical Terminology

Prerequisite: None

Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Biotechnology I

Prerequisite: Biology

Recommended pre- or co-requisite: Chemistry, Principles of Biomedical Science, or Principles of Health Science

Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

In Biotechnology I, students will apply advanced academic knowledge and skills to the emerging fields of biotechnology such as agricultural, medical, regulatory, and forensics. Students will have the opportunity to use sophisticated laboratory equipment, perform statistical analysis, and practice quality-control techniques. Students will conduct laboratory and field investigations and make informed decisions using critical thinking, scientific problem solving, and the engineering design process. Students will study a variety of topics that include structures and functions of cells, nucleic acids, proteins, and genetics.

Anatomy & Physiology^

Prerequisite: Biology and Chemistry, IPC, or Physics

Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**

The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using

critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Medical Microbiology^

Prerequisite: Biology, Chemistry, and 1+ credit from the Health Science career cluster
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

Pathophysiology^

Prerequisite: Biology, Chemistry, and 1+ credit from the Health Science career cluster
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Practicum in Health Science

Prerequisite: Anatomy & Physiology and 1+ course for 1+ credit (level 2 or higher) in aligned program of study
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**
Practicum in Education and Training is a field-based course that provides students with background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school- and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and perform other duties of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.

DIAGNOSTIC & THERAPEUTIC SERVICES

EXPLORE

- Patient diagnosis & treatment
- Therapeutic & rehabilitative care
- Healthcare team collaboration
- Patient support & functional skills

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Medical Assistant

Associate Degrees
- Emergency Medical Technology
- Radiologic Technology/Science

Bachelor's
- Emergency Medical Technology
- Medical Insurance Coding

Master's, Doctoral, & Professional Degrees
- Medicine
- Occupational Therapy

Additional Stackable IBCs/License
- Registered Diagnostic Medical Sonographer

ADVANCING CARE

The **Diagnostic & Therapeutic Services** program of study focuses on occupational and educational opportunities associated with diagnosing and treating acute, episodic, or chronic illness independently or as part of a healthcare team.

This program of study includes exploration of patient treatment and rehabilitative programs that help build or restore daily living skills to persons with disabilities or developmental delays.

DIAGNOSTIC & THERAPEUTIC SERVICES



Medical Assistants

$37,568
Annual Median Wage

Dental Hygienists

$89,155
Annual Median Wage





Physician Assistants

$131,082
Annual Median Wage

DIAGNOSTIC & THERAPEUTIC SERVICES

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
			
• Principles of Health Science • Medical Terminology	• Disaster Response • Health Science Theory	• Anatomy & Physiology • Medical Microbiology • Pathophysiology	• Practicum in Health Science • Emergency Medical Technician - Basic • Career Preparation for Program of Study
ALIGNED ENDORSEMENT • Public Service • STEM* *With required math & science credits	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Medical Assistant • Certified EKG • Patient Care Tech • Pharmacy Tech • Emergency Care Assistant (ECA) • EMT - Basic • Phlebotomy Tech	**RECOMMENDED ADVANCED PLACEMENT** • AP Biology • AP Chemistry • AP Statistics • AP Psychology	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.

DIAGNOSTIC & THERAPEUTIC SERVICES COURSE DESCRIPTIONS

Principles of Health Science

Prerequisite: None
Grade level: 7^-12 **Course credit: 1** **1 period, 2 semesters**
^7th grade at South Belton Middle School only
The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Medical Terminology

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Disaster Response

Prerequisite: None
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
Disaster Response includes basic training of students in disaster survival and rescue skills that improve the ability of citizens to survive until responders arrive. Students will learn how to make communities safer, stronger, and better prepared to respond to the threats of terrorism, crime, public health issues, and disasters of all kinds.

Health Science Theory

Prerequisite: Biology
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

Anatomy & Physiology^

Prerequisite: Biology and Chemistry, IPC, or Physics
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Medical Microbiology^

Prerequisite: Biology, Chemistry, and 1+ credit from the Health Science career cluster
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

Pathophysiology^

Prerequisite: Biology, Chemistry, and 1+ credit from the Health Science career cluster
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Practicum in Health Science

Prerequisite: Anatomy & Physiology and 1+ course for 1+ credit (level 2 or higher) in aligned program of study
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**
Practicum in Education and Training is a field-based course that provides students with background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school- and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and perform other duties of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Emergency Medical Technician – Basic*

*Dual credit fees required
Prerequisite: Disaster Response and Anatomy & Physiology
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**
Outside of class time required
Emergency Medical Technician (EMT)—Basic instructs students to meet and exceed standard knowledge needed to be a valid Emergency Medical Technician. The curriculum includes skills necessary for a student to provide entry level emergency medical care, life support, and ambulance service.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.

EXERCISE SCIENCE, WELLNESS, & RESTORATION

EXPLORE

- Health & wellness foundations
- Exercise science & human performance
- Nutrition & healthy living
- Injury recovery & rehabilitation

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Medical Assistant

Associate Degrees
- Associate of Applied Science

Bachelor's
- Nutrition Sciences
- Exercise Physiology & Kinesiology

Master's, Doctoral, & Professional Degrees
- Exercise Science & Kinesiology
- Physical Therapy

Additional Stackable IBCs/License
- Physical Therapy Technician/Aide Certification

ADVANCING CARE

The **Exercise Science, Wellness, and Restoration** program of study focuses on occupational and educational opportunities associated with assisting patients with maintaining physical, mental, and emotional health.

This program of study includes researching diet and exercise needed to maintain a healthy, balanced lifestyle and exploring techniques to help patients recover from injury, illness, or disease.

EXERCISE SCIENCE, WELLNESS, & RESTORATION



Exercise Trainers & Group Fitness Instructors

$38,847
Annual Median Wage

Athletic Trainers

$61,264
Annual Median Wage





Physical Therapist Assistants

$75,957
Annual Median Wage

EXERCISE SCIENCE, WELLNESS, & RESTORATION

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Health Science • Medical Terminology	• Health Science Theory	• Anatomy & Physiology	• Practicum in Health Science • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Public Service	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Medical Assistant	**RECOMMENDED ADVANCED PLACEMENT** • AP Biology • AP Statistics • AP Psychology	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

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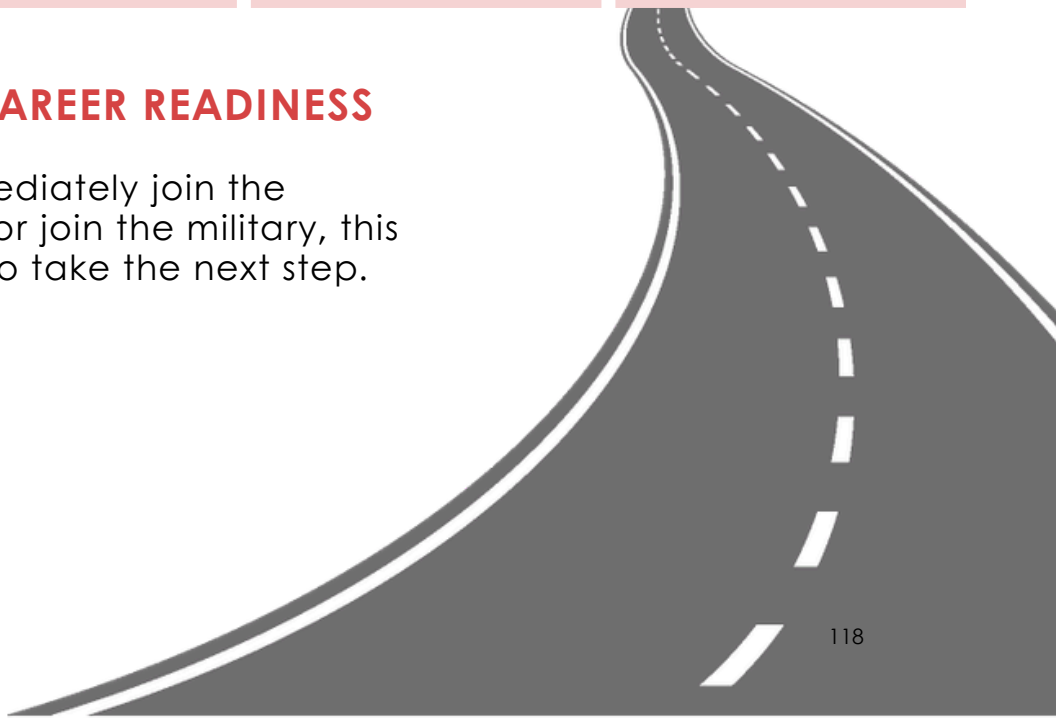

EXERCISE SCIENCE, WELLNESS, & RESTORATION COURSE DESCRIPTIONS

Principles of Health Science

Prerequisite: None
Grade level: 7^-12 **Course credit: 1** **1 period, 2 semesters**
^7th grade at South Belton Middle School only
The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Medical Terminology

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Health Science Theory

Prerequisite: Biology
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

Anatomy & Physiology^

Prerequisite: Biology and Chemistry, IPC, or Physics
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Practicum in Health Science

Prerequisite: Anatomy & Physiology and 1+ course for 1+ credit (level 2 or higher) in aligned program of study
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**
Practicum in Education and Training is a field-based course that provides students with background knowledge of child and adolescent development principles as well as principles of effective teaching and training practices. Students in the course work under the joint direction and supervision of both a teacher with knowledge of early childhood, middle childhood, and adolescence education and exemplary educators in direct instructional roles with elementary-, middle school- and high school-aged students. Students learn to plan and direct individualized instruction and group activities, prepare instructional materials, assist with record keeping, make physical arrangements, and perform other duties of classroom teachers, trainers, paraprofessionals, or other educational personnel.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
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NURSING SCIENCE

EXPLORE

- Patient care & clinical skills
- Vital signs & medical procedures
- Care planning & disease management
- Medical documentation & healthcare systems

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Registered Nurse Resident

Associate Degrees
- Medical Assisting
- Vocational Nursing

Bachelor's
- Registered Nursing
- Nursing Administration

Master's, Doctoral, & Professional Degrees
- Nursing Administration
- Nursing Science

Additional Stackable IBCs/License
- Certified Emergency Nurse

ADVANCING CARE

The **Nursing Science** program of study focuses on occupational and educational opportunities associated with patient care.

This program of study includes the practice of caring for patients, performing routine procedures such as monitoring vital signs, developing, and implementing care plans, maintaining medical records, and managing disease or pain.

NURSING SCIENCE



Nursing Assistants

$35,110
Annual Median Wage

Licensed Practical & Vocational Nurses

$57,007
Annual Median Wage





Registered Nurses

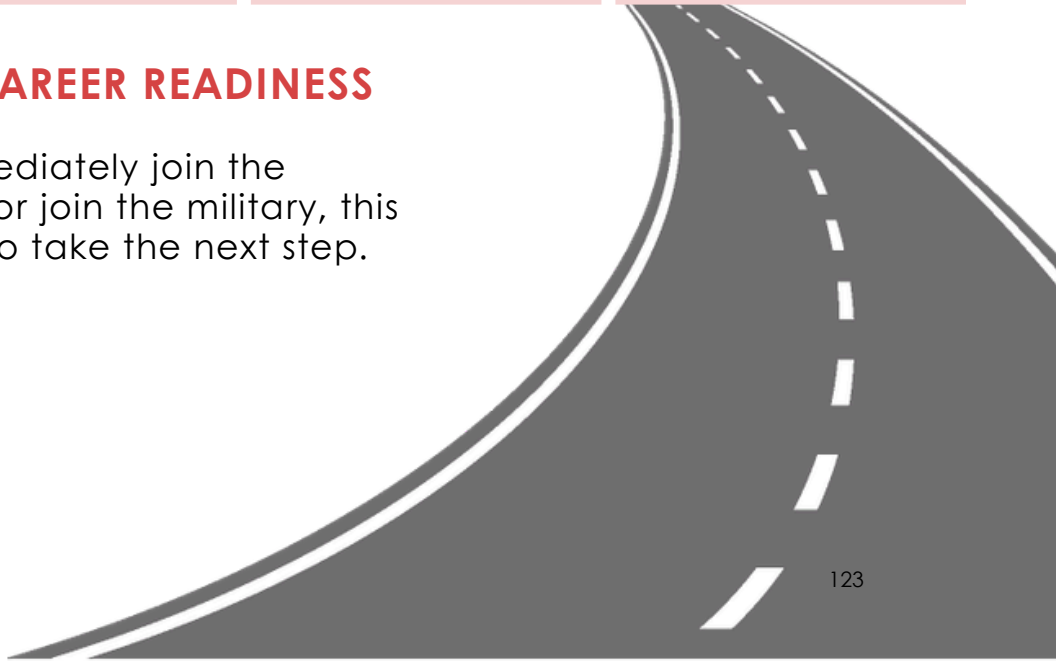
$85,108
Annual Median Wage

NURSING SCIENCE

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Health Science • Medical Terminology	• Health Science Theory	• Anatomy & Physiology • Medical Microbiology • Pathophysiology	• Practicum in Health Science • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Public Service	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Medical Assistant • Patient Care Tech • Phlebotomy Tech	**RECOMMENDED ADVANCED PLACEMENT** • AP Biology • AP Chemistry • AP Statistics • AP Psychology	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



NURSING SCIENCE COURSE DESCRIPTIONS

Principles of Health Science

Prerequisite: None
Grade level: 7^-12 **Course credit: 1** **1 period, 2 semesters**
^7th grade at South Belton Middle School only
The Principles of Health Science course is designed to provide an overview of the therapeutic, diagnostic, health informatics, support services, and biotechnology research and development systems of the health care industry.

Medical Terminology

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
The Medical Terminology course is designed to introduce students to the structure of medical terms, including prefixes, suffixes, word roots, singular and plural forms, and medical abbreviations. The course allows students to achieve comprehension of medical vocabulary appropriate to medical procedures, human anatomy and physiology, and pathophysiology.

Health Science Theory

Prerequisite: Biology
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
The Health Science Theory course is designed to provide for the development of advanced knowledge and skills related to a wide variety of health careers. Students will employ hands-on experiences for continued knowledge and skill development.

Anatomy & Physiology*

Prerequisite: Biology and Chemistry, IPC, or Physics
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
The Anatomy and Physiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Anatomy and Physiology will study a variety of topics, including the structure and function of the human body and the interaction of body systems for maintaining homeostasis.

Medical Microbiology^

Prerequisite: Biology, Chemistry, and 1+ credit from the Health Science career cluster
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
The Medical Microbiology course is designed to explore the microbial world, studying topics such as pathogenic and non-pathogenic microorganisms, laboratory procedures, identifying microorganisms, drug resistant organisms, and emerging diseases.

Pathophysiology^

Prerequisite: Biology, Chemistry, and 1+ credit from the Health Science career cluster
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
The Pathophysiology course is designed for students to conduct laboratory and field investigations, use scientific methods during investigations, and make informed decisions using critical thinking and scientific problem solving. Students in Pathophysiology will study disease processes and how humans are affected. Emphasis is placed on prevention and treatment of disease. Students will differentiate between normal and abnormal physiology.

Practicum in Health Science

Prerequisite: Anatomy & Physiology and 1+ course for 1+ credit (level 2 or higher) in aligned program of study

Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**

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

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course

Grade level: 12

Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning

Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning

Career Preparation and Extended Career Preparation provide 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.



HOSPITALITY & TOURISM

The Hospitality and Tourism career cluster focuses on the management, marketing, and operations of restaurants, lodging, attractions, recreation events, and travel-related services. This career cluster includes occupations ranging from reservation and transportation ticket agent to event planner and general manager.

Culinary Arts





CULINARY ARTS

EXPLORE

- Food preparation & cooking techniques
- Kitchen operations & management
- Menu planning & nutrition
- Food safety & hospitality skills

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Associate Degrees
- Culinary Arts
- Baking & Pastry Arts

Bachelor's
- Hotel/Motel Administration/ Management
- Culinary Science

Master's, Doctoral, & Professional Degrees
- Organizational Leadership
- Foodservice Systems Administration/ Management

Additional Stackable IBCs/License
- Food Manager License

INSPIRING DREAMS

The **Culinary Arts** program of study focuses on occupational and educational opportunities associated with the planning, directing, or coordinating activities of a food and beverage organization or department.

This program of study includes opportunities involved in directing and participating in the preparation of food.

CULINARY ARTS



Chefs & Head Cooks

$48,557
Annual Median Wage

Food Service Managers

$61,748
Annual Median Wage





General & Operations Managers

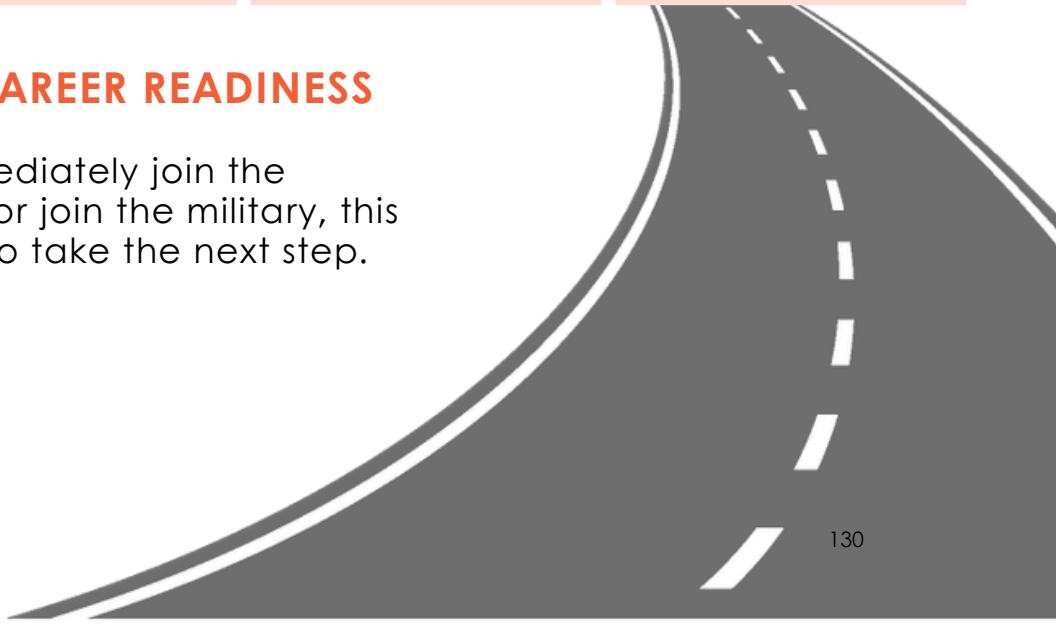
$96,046
Annual Median Wage

CULINARY ARTS

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Culinary Arts	• Advanced Culinary Arts	• Food Science • Practicum in Culinary Arts (1st time taken)	• Practicum in Culinary Arts (2nd time taken) • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Public Service	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • ServSafe Manager	**RECOMMENDED ADVANCED PLACEMENT** • AP Biology • AP Chemistry • AP Statistics • AP Micro-economics	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



CULINARY ARTS COURSE DESCRIPTIONS

Culinary Arts

Prerequisite: None
Grade level: 9-12 **Course credit: 2*** **1 period, 2 semesters**
*2 credit course scheduled for one period **Outside of class work required**
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.

Advanced Culinary Arts

Prerequisite: Culinary Arts
Grade level: 10-12 **Course credit: 2** **2 block periods, 2 semesters**
Outside of class work required
Advanced Culinary Arts will extend content and enhance skills introduced in Culinary Arts by in-depth instruction of industry-driven standards in order to prepare students for success in higher education, certifications, and/or immediate employment.

Food Science^

Prerequisite: Biology and Chemistry
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
In Food Science, students examine the nature and properties of foods, food microbiology, and the principles of science in food production, processing, preparation, and preservation; use scientific methods to conduct laboratory and field investigations; and make informed decisions using critical thinking and scientific problem solving. This course provides students with a foundation for further study that leads to occupations in food and beverage services; the health sciences; agriculture, food, and natural resources; and human services.

Practicum in Culinary Arts

Prerequisite: Advanced Culinary Arts
Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**
Outside of class work required
Practicum in Culinary Arts is a unique practicum that provides occupationally specific opportunities for students to participate in a learning experience that combines classroom instruction with actual business and industry career experiences. Practicum in Culinary Arts integrates academic and career and technical education; provides more interdisciplinary instruction; and supports strong partnerships among schools, businesses, and community institutions with the goal of preparing students with a variety of skills in a fast-changing workplace.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.



HUMAN SERVICES

The Hospitality and Tourism career cluster focuses on the management, marketing, and operations of restaurants, lodging, attractions, recreation events, and travel-related services. This career cluster includes occupations ranging from reservation and transportation ticket agent to event planner and general manager.

Health & Wellness





HEALTH & WELLNESS

EXPLORE

- Holistic health & wellness
- Health education & counseling
- Crisis response & support services
- Care planning & community resources

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Community Health Worker

Associate Degrees
- Social Work
- Community Health Services Counseling

Bachelor's
- Social Work
- Mental Health Counseling

Master's, Doctoral, & Professional Degrees
- Nutrition Services
- Dietics

Additional Stackable IBCs/License
- Dietitian

EXPLORING INTERESTS

The **Health and Wellness** program of study focuses on occupational and educational opportunities associated with promoting physical, emotional, and mental health and wellness.

This program of study incudes assisting patients in planning for their health and wellness, responding to crises, providing education or counseling, making referrals, and addressing barriers to accessing health and wellness services.

HEALTH & WELLNESS



Community Health Worker

$43,619
Annual Median Wage

Dietetic Technician

$28,975
Annual Median Wage





Dietitians & Nutritionists

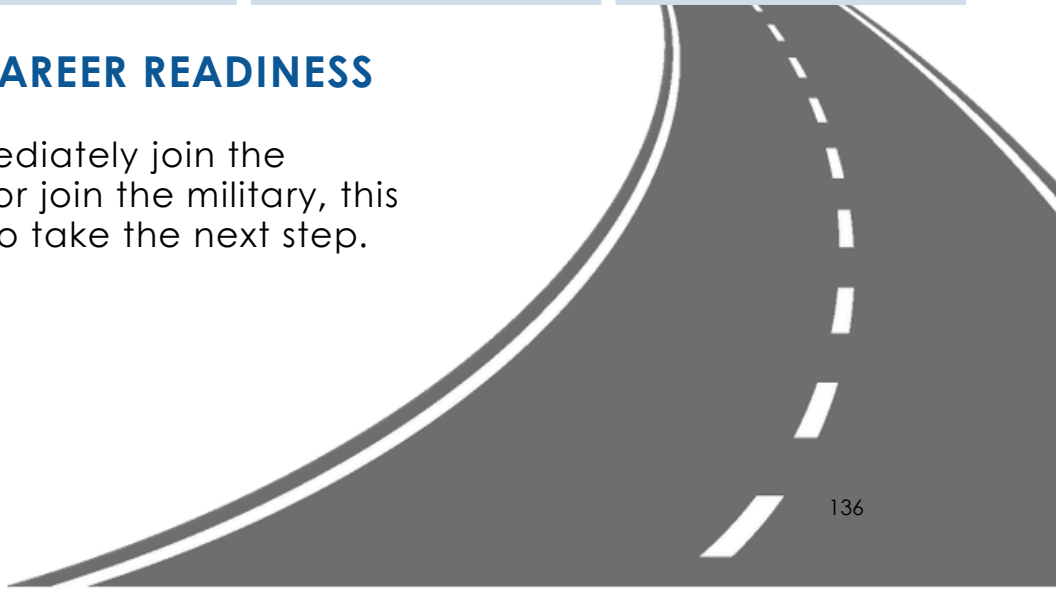
$64,399
Annual Median Wage

HEALTH & WELLNESS

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Principles of Human Services	• Child Development	• Counseling & Mental Health	• Food Science • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Public Service	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • TBA	**RECOMMENDED ADVANCED PLACEMENT** • AP Psychology • AP Biology • AP English • AP Statistics • AP Human Geography	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



HEALTH & WELLNESS COURSE DESCRIPTIONS

Principles of Human Services

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
Principles of Human Services is a laboratory course that will enable students to investigate careers in the Human Services Career Cluster, including counseling and mental health, early childhood development, family and community, personal care, and consumer 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

Recommended Pre- or Co-requisite: Principles of Human Services
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
Child Development is a course that addresses knowledge and skills related to child growth and development from prenatal through school-age children. 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.

Counseling & Mental Health

Recommended Pre- or Co-requisite: Principles of Human Services or Principles of Law
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

Food Science

Prerequisite: Biology & Chemistry
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
In Food Science, students examine the nature and properties of foods, food microbiology, and the principles of science in food production, processing, preparation, and preservation; use scientific methods to conduct laboratory and field investigations; and make informed decisions using critical thinking and scientific problem solving. This course provides students a foundation for further study that leads to occupations in food and beverage services; the health sciences; agriculture, food, and natural resources; and human services.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.



INFORMATION TECHNOLOGY

The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

CyberSecurity
Programming & Software Development





CYBERSECURITY

EXPLORE

- Network security & protection
- Cyber threats & risk management
- Incident response & recovery
- Security tools & system administration

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Associate Degrees
- Computer & Information Systems Security
- Computer Programming

Bachelor's
- Computer Science
- Computer Software Engineering

Master's, Doctoral, & Professional Degrees
- Computer & Information Systems Security/Auditing/ Information Assurance
- Computer Software Engineering

Additional Stackable IBCs/License
- Certified Ethical Hacker (CEH)

DEVELOPING THINKERS

The **CyberSecurity** program of study focuses on occupational and educational opportunities associated with planning, implementing, upgrading, or monitoring security measures for the protection of computer networks and information.

This program of study includes responding to computer security breaches and viruses and administering network security measures.

CYBERSECURITY



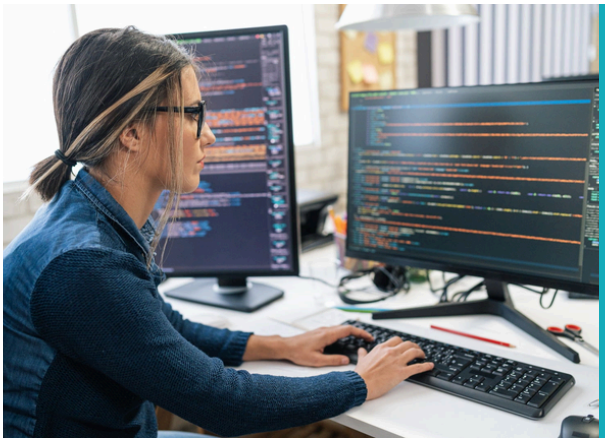
Computer User Specialists

$51,823
Annual Median Wage

Information Security Analysts

$115,042
Annual Median Wage





Software Developers

$127,000
Annual Median Wage

CYBERSECURITY

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Fundamentals of Computer Science • AP Computer Science Principles	• Computer Science I	• AP Computer Science A • CyberSecurity Capstone	• Practicum in Information Technology • Career Preparation for Program of Study
ALIGNED ENDORSEMENT • Business & Industry • STEM* *With required math & science credits	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • CompTIA Tech+ • Oracle Certified Associate Java SE 8 Programmer • CompTIA Security+	**RECOMMENDED ADVANCED PLACEMENT** • AP Statistics • AP Calculus • AP Physics	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.

CYBERSECURITY COURSE DESCRIPTIONS

Fundamentals of Computer Science

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn computational thinking, problem-solving, and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

AP Computer Science Principles^

Pre- or Co-requisite: Algebra I
Grade level: 9-12 **Course credit: 1** ^LOTE credit **1 period, 2 semesters**

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

Computer Science I^

Pre- or Co-requisite: Algebra I
Grade level: 9-12 **Course credit: 1** ^LOTE credit **1 period, 2 semesters**

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

AP Computer Science A^

Prerequisite: Algebra I

Grade level: 10-12 **Course credit: 1** ^LOTE & Math credit **1 period, 2 semesters**

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

Cybersecurity Capstone

Prerequisite: 3+ courses for 3+ credits in aligned program of study

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

In the Cybersecurity Capstone course, students will develop the knowledge and skills needed to explore advanced concepts related to the ethics, laws, and operations of cybersecurity. Students will examine trends and operations of cyberattacks, threats, and vulnerabilities. Students will develop security policies to mitigate risks. The skills obtained in this course prepare students for additional study toward industry certification. A variety of courses are available to students interested in the cybersecurity field. Cybersecurity Capstone may serve as a culminating course in this field of study.

Practicum in Information Technology

Prerequisite: 2+ courses for 2+ credits in aligned program of study

Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the 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 industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course

Grade level: 12

Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning

Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning

Career Preparation and Extended Career Preparation provide 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.

PROGRAMMING & SOFTWARE DEVELOPMENT

EXPLORE

- Software development & coding
- Systems & application design
- Testing, debugging & optimization
- Real-world software applications

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Computer Programmer Apprenticeship

Associate Degrees
- Computer Programming
- Web Page, Digital/ Multimedia & Information Resources Design

Bachelor's
- Data Science
- Computer Engineering

Master's, Doctoral, & Professional Degrees
- Management Science
- Computer Software Engineering

Additional Stackable IBCs/License
- AWS Certified Developer Associate

DEVELOPING THINKERS

The **Programming and Software Development** program of study focuses on occupational and educational opportunities associated with researching, designing, developing, testing, and operating systems-level software, compilers, and network distribution software for medical, industrial, military, communications, aerospace, business, scientific, and general computer applications.

This program of study includes creating, modifying, and testing the codes, forms, and script that allow computer applications to run.

PROGRAMMING & SOFTWARE DEVELOPMENT



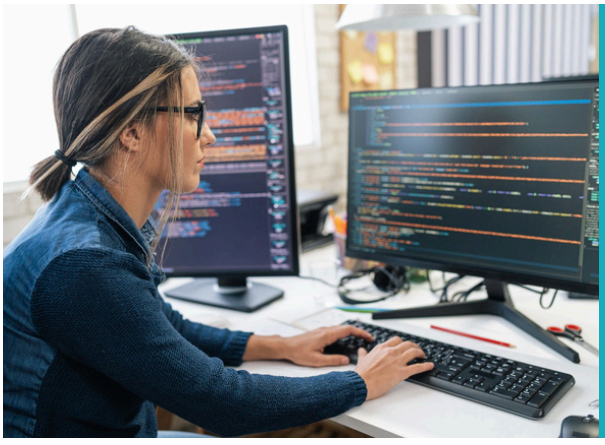
Computer User Specialists

$51,823
Annual Median Wage

Computer Programmers

$99,177
Annual Median Wage





Software Developers

$127,000
Annual Median Wage

PROGRAMMING & SOFTWARE DEVELOPMENT

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Fundamentals of Computer Science • AP Computer Science Principles	• Computer Science I	• Computer Science II • AP Computer Science A	• Practicum in Information Technology • Career Preparation for Program of Study
ALIGNED ENDORSEMENT • Business & Industry • STEM* *With required math & science credits	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • CompTIA Tech+ • Oracle Certified Associate Java SE 8 Programmer • CompTIA A+	**RECOMMENDED ADVANCED PLACEMENT** • AP Statistics • AP Calculus • AP Physics	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.

PROGRAMMING & SOFTWARE DEVELOPMENT COURSE DESCRIPTIONS

Fundamentals of Computer Science

Prerequisite: None

Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

Fundamentals of Computer Science is intended as a first course for those students just beginning the study of computer science. Students will learn about the computing tools that are used every day. Students will foster their creativity and innovation through opportunities to design, implement, and present solutions to real-world problems. Students will collaborate and use computer science concepts to access, analyze, and evaluate information needed to solve problems. Students will learn computational thinking, problem-solving, and reasoning skills that are the foundation of computer science. By using computer science knowledge and skills that support the work of individuals and groups in solving problems, students will select the technology appropriate for the task, synthesize knowledge, create solutions, and evaluate the results. Students will learn digital citizenship by researching current laws, regulations, and best practices and by practicing integrity and respect. Students will gain an understanding of the principles of computer science through the study of technology operations and concepts.

AP Computer Science Principles^

Pre- or Co-requisite: Algebra I

Grade level: 9-12 **Course credit: 1** ^LOTE credit **1 period, 2 semesters**

AP Computer Science Principles is an introductory college-level computing course that introduces students to the breadth of the field of computer science. Students learn to design and evaluate solutions and to apply computer science to solve problems through the development of algorithms and programs. They incorporate abstraction into programs and use data to discover new knowledge. Students also explain how computing innovations and computing systems—including the internet—work, explore their potential impacts, and contribute to a computing culture that is collaborative and ethical.

Computer Science I^

Pre- or Co-requisite: Algebra I

Grade level: 9-12 **Course credit: 1** ^LOTE credit **1 period, 2 semesters**

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

Computer Science II^

Pre- or Co-requisite: Algebra I

Grade level: 10-12 **Course credit: 1** ^LOTE credit **1 period, 2 semesters**

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

AP Computer Science A^

Prerequisite: Algebra I

Grade level: 10-12 **Course credit: 1** ^LOTE & Math credit **1 period, 2 semesters**

AP Computer Science A is an introductory college-level computer science course. Students cultivate their understanding of coding through analyzing, writing, and testing code as they explore concepts like modularity, variables, and control structures.

Practicum in Information Technology

Prerequisite: 2+ courses for 2+ credits in aligned program of study

Grade level: 12 **Course credit: 2** **2 block periods, 2 semesters**

In the Practicum in Information Technology, students will gain advanced knowledge and skills in the application, design, production, implementation, maintenance, evaluation, and assessment of products, services, and systems. Knowledge and skills in the 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 industry mentor, as an unpaid or paid internship, as part of a capstone project, or as career preparation.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course

Grade level: 12

Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning

Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning

Career Preparation and Extended Career Preparation provide 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.



LAW & PUBLIC SERVICE

The Law and Public Service career cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. This career cluster includes occupations ranging from all aspects of the military, police officer and firefighter to political scientist and lawyer.

Law Enforcement





LAW ENFORCEMENT

EXPLORE

- Law enforcement roles & systems
- Criminal law & legal foundations
- Constitutional rights & responsibilities
- Crime Analysis & Investigation

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Security Specialist

Associate Degrees
- Criminal Justice
- Law Enforcement

Bachelor's
- Forensic Science
- Criminal Justice

Master's, Doctoral, & Professional Degrees
- Criminal Justice
- Criminology & Crime Justice

Additional Stackable IBCs/License
- Jailer - Basic County Corrections
- Basic Telecommunicator

ENCOURAGING HOPE

The **Law Enforcement** program of study focuses on occupational and educational opportunities associated with the development and enforcement of laws by various branches of law enforcement.

This program of study includes the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

LAW ENFORCEMENT



Police & Sheriff's Patrol Officers

$74,014
Annual Median Wage

Detectives & Criminal Investigators

$89,394
Annual Median Wage





First-line Supervisors of Police & Detectives

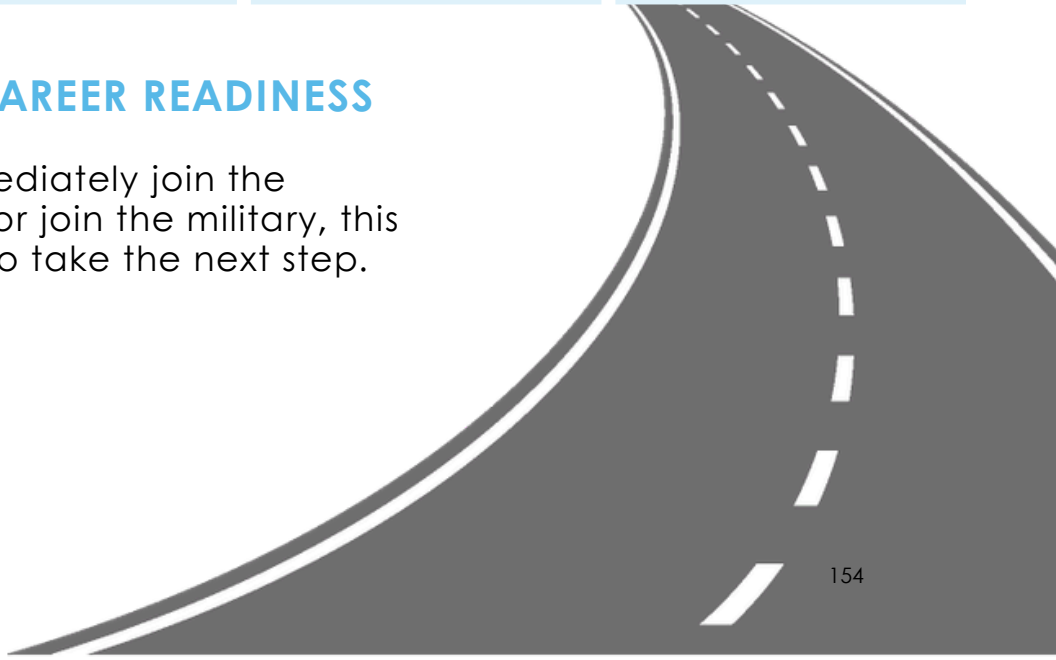
$105,836
Annual Median Wage

LAW ENFORCEMENT

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Law Enforcement	• Law Enforcement II	• Forensic Science • Counseling & Mental Health	• Criminal Investigation • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Public Service	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Non-Commissioned Security Officer Level II License	**RECOMMENDED ADVANCED PLACEMENT** • AP Government • AP Psychology • AP US History • AP English • AP Statistics	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



LAW ENFORCEMENT COURSE DESCRIPTIONS

Law Enforcement I

Prerequisite: None
Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**
Law Enforcement I is an overview of the history, organization, and functions of local, state, and federal law enforcement. Students will understand the role of constitutional law at local, state, and federal levels; the U.S. legal system; criminal law; and law enforcement terminology and the classification and elements of crime.

Law Enforcement II

Prerequisite: Law Enforcement I
Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**
Law Enforcement II provides the knowledge and skills necessary to prepare for a career in law enforcement. Students will understand ethical and legal responsibilities, patrol procedures, first responder roles, telecommunications, emergency equipment operations, and courtroom testimony.

Counseling & Mental Health

Recommended Pre- or Co-requisite: Principles of Human Services or Principles of Law
Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**
In Counseling and Mental Health, students model the knowledge and skills necessary to pursue a counseling and mental health career through simulated environments. Students are expected to apply knowledge of ethical and legal responsibilities, limitations, and the implications of their actions. Professional integrity in counseling and mental health care is dependent on acceptance of ethical and legal responsibilities.

Forensic Science^

Prerequisite: Biology and Chemistry, IPC, or Physics
Grade level: 11-12 **Course credit: 1** ^Science credit **1 period, 2 semesters**
Forensic Science is a survey course that introduces students to the application of science to law. Students learn terminology and procedures related to the collection and examination of physical evidence using scientific processes performed in a field or laboratory setting. Students also learn the history and the legal aspects of forensic science.

Criminal Investigations

Prerequisite: Biology and Chemistry, IPC, or Physics
Grade level: 12 **Course credit: 1** **1 period, 2 semesters**
Criminal Investigation is a course that introduces students to the profession of criminal investigations. Students will understand basic functions of criminal investigations and procedures and will learn how to investigate or follow up during investigations. Students will learn terminology and investigative procedures related to criminal investigation, crime scene processing, evidence collection, fingerprinting, and courtroom presentation. Through case studies and simulated crime scenes, students will collect and analyze evidence such as fingerprint analysis, bodily fluids, hairs, fibers, shoe and tire impressions, bite marks, drugs, tool marks, firearms and ammunition, blood spatter, digital evidence, and other types of evidence.

Career Preparation or Extended Career Preparation

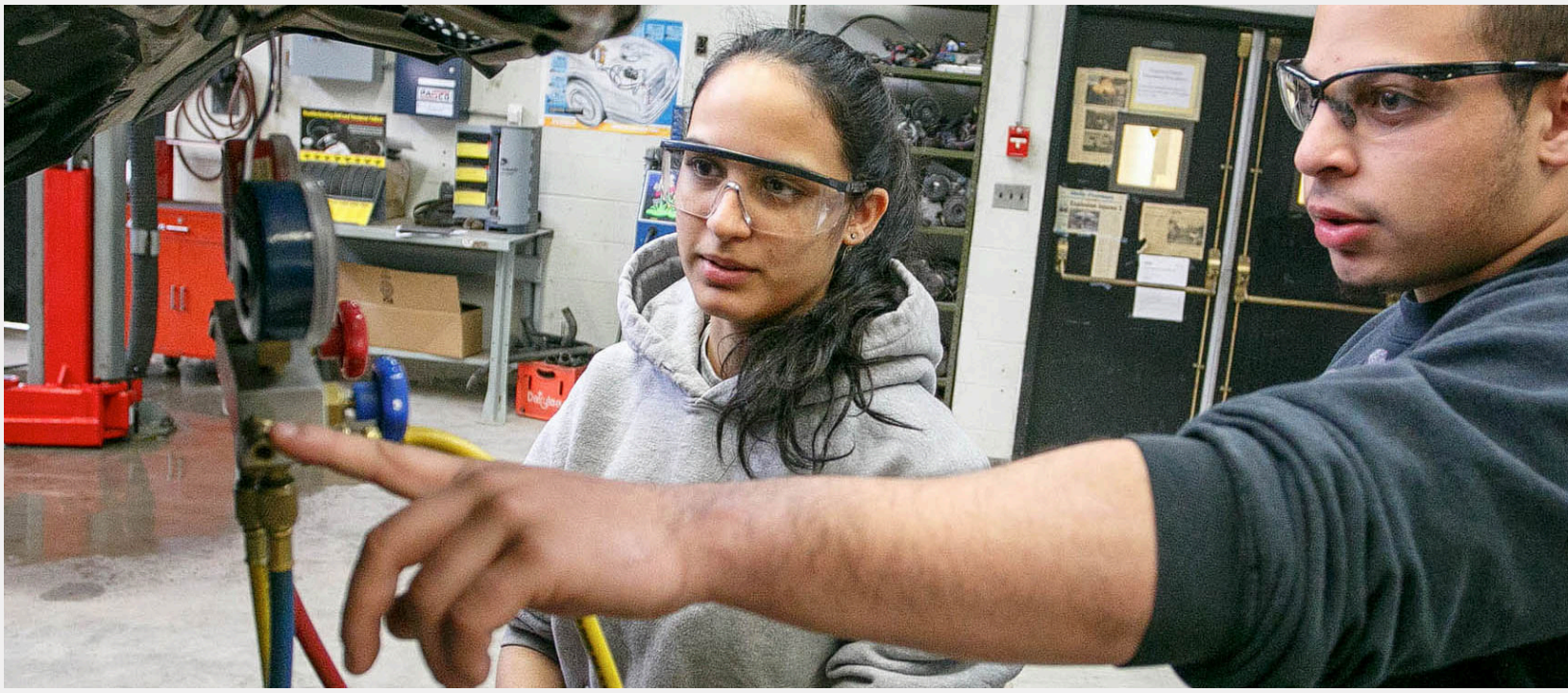
Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.



TRANSPORTATION, DISTRIBUTION & LOGISTICS

The Information Technology (IT) career cluster focuses on the design, development, support, and management of hardware, software, multimedia, and systems integration services. This career cluster includes occupations ranging from Software Developer and Programmer to Cybersecurity Specialists and Network Analysts.

Automotive Technology & Collision Repair





AUTOMOTIVE TECHNOLOGY & COLLISION REPAIR

EXPLORE

- Vehicle system & diagnostics
- Automotive repair & maintenance
- Collision repair & refinishing
- Automotive technology & materials

LEARN BY DOING

- Engaging, industry-aligned experiences
- CTSO event competitions
- Work-based learning opportunities

GET CAREER READY

Apprenticeships
- Automotive Technician

Associate Degrees
- Automotive/Automotive Mechanics Technology
- Autobody/Collision & Repair Technology

Bachelor's
- Autobody/Collision & Repair Technology
- Heavy Equipment Maintenance Technology

Additional Stackable IBCs/License
- Automotive & Light Truck Certification (A1 - A9)

FUELING AMBITION

The **Automotive and Collision Repair** program of study focuses on the occupational and educational opportunities associated with servicing, repairing, and refinishing various types of vehicles.

This program of study includes diagnosing and servicing vehicles and learning about processes, technologies, and materials used in reconstructing vehicles.

AUTOMOTIVE TECHNOLOGY & COLLISION REPAIR

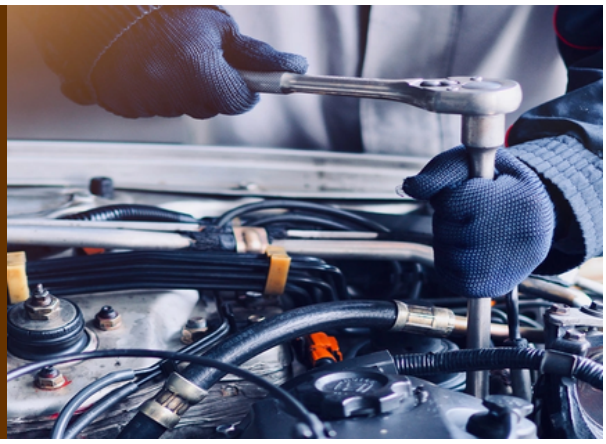


Automotive Service Technicians & Mechanics

$99,247
Annual Median Wage

Bus & Truck Mechanics & Diesel Engine Specialists

$56,776
Annual Median Wage





First-line Supervisors of Mechanics, Installers, & Repairers

$70,554
Annual Median Wage

AUTOMOTIVE TECHNOLOGY & COLLISION REPAIR

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• Automotive Basics	• Automotive Technology I: Maintenance & Light Repair	• Automotive Technology II: Automotive Services	• Practicum in Transportation Systems • Career Preparation for Program of Study
ALIGNED ENDORSEMENT Business & Industry	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** • Up to 11 ASE Entry-Level Certifications	**RECOMMENDED ADVANCED PLACEMENT** • AP Physics • AP Calculus • AP Computer Science Principles • AP Statistics • AP Environmental Science	**ALIGNED DUAL CREDIT** TBA

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.

AUTOMOTIVE & COLLISION REPAIR COURSE DESCRIPTIONS

Automotive Basics

Prerequisite: None

Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

Automotive Basics includes knowledge of the basic automotive systems and the theory and principles of the components that make up each system and how to service these systems. Automotive Basics includes applicable safety and environmental rules and regulations. In Automotive Basics, students will gain knowledge and skills in the repair, maintenance, and servicing of vehicle systems. This study allows students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Automotive I: Maintenance & Light Repair

Prerequisite: Automotive Basics

Grade level: 10-12 **Course credit: 2** **2 periods, 2 semesters**

Automotive Technology I: Maintenance and Light Repair includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. This course includes applicable safety and environmental rules and regulations. In Automotive Technology I: Maintenance and Light Repair, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Automotive II: Automotive Services

Prerequisite: Automotive 1

Grade level: 11-12 **Course credit: 2** **2 periods, 2 semesters**

Automotive Technology II: Automotive Service includes knowledge of the major automotive systems and the principles of diagnosing and servicing these systems. Automotive Technology II: Automotive Service includes applicable safety and environmental rules and regulations. In this course, students will gain knowledge and skills in the repair, maintenance, and diagnosis of vehicle systems. This study will allow students to reinforce, apply, and transfer academic knowledge and skills to a variety of interesting and relevant activities, problems, and settings. The focus of this course is to teach safety, tool identification, proper tool use, and employability.

Practicum in Transportation Systems

Prerequisite: Automotive II

Grade level: 12 **Course credit: 2** **2 periods, 2 semesters**

Practicum in Transportation Systems is designed to give students supervised practical application of knowledge and skills. Practicum experiences can occur in a variety of locations appropriate to the nature and level of experience such as internships, mentorships, independent study, or laboratories. The Practicum can be either school lab based or work based.

Career Preparation or Extended Career Preparation

Prerequisite: 2+ courses for 2+ credits in aligned program of study, including a level 2 or higher course
Grade level: 12
Course credit: 2; 1 period, 2 semesters + 10 hours/week of work-based learning
Course credit: 3; 1 period, 2 semesters + 15 hours/week of work-based learning
Career Preparation and Extended Career Preparation provide 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.

Marine Corps JROTC



BELTON CAREER BUILDERS

beltoncareerbuilders.com

A FOUNDATION FOR OPPORTUNITY

Belton ISD Marine Corps Junior Reserve Officers' Training Corps (MCJROTC) stands as one of three pillars within the district's Career Readiness Department, known as Belton Career Builders, alongside Advanced Academics and Career & Technical Education (CTE). Through a dynamic blend of leadership development, character education, physical fitness, and service, MCJROTC equips students with the confidence, discipline, and skills necessary to lead and succeed in any path they choose. It is rigorours, purpose-driven learning preparing students to become responsible citizens, effective leaders, and resilient contributors in college, careers, the military, and beyond. Simply put, MCJROTC builds leaders for life.

GET CAREER READY



The vision of BISD Career Readiness is to foster a spirit of curiosity and career exploration, ignite aspirations, and empower each and every student to envision and shape their future.





Within this framework, MCJROTC develops confident, purpose-driven leaders by cultivating character, inspiring service, strengthening resilience, and empowering students to recognize their potential and shape their future.

MCJROTC empowers students to develop the character, confidence, discipline, and leadership skills needed to serve with purpose, overcome challenges, and positively influence the world around them.

BELTON CAREER BUILDERS



MCJROTC programs...

- Develop leadership & character through meaningful opportunities to lead, collaborate, make decisions, and take responsibility
- Build confidence, discipline, and resilience by challenging students to set goals, persevere through obstacles, and strive for excellence
- Cultivate citizenship and a commitment to serve through community engagement, teamwork, and experiences that positively impact others
- Create a sense of belonging and purpose through shared experiences that build teamwork and personal responsibility

Students who engage in the MCJROTC program gain

- Leadership & character development through authentic opportunities to lead, collaborate, make decisions, and take responsibility
- Confidence, discipline, and resilience through goal setting, physical fitness, and personal accountability
- Communication, teamwork, problem-solving and critical thinking skills that prepare students to lead effectively and contribute meaningfully in a variety of settings
- Development of transferable skills such as organization, time management, adaptability, and perseverance
- A strong sense of belonging and purpose through shared experiences, traditions, and achievement

Students in Belton ISD's MCJROTC program develop the character, confidence, discipline, and leadership skills to pursue their goals and positively influence the world around them. They are challenged and empowered to take responsibility for their growth, serve others, and lead with purpose. Whether advancing to higher education, entering the workforce, or pursuing military service, MCJROTC prepares students to approach their future with confidence, resilience, and a commitment to excellence.

BELTON CAREER BUILDERS

MARINE CORPS JROTC

EXPLORE

- Leadership & character development
- Health, fitness, & life skills
- Career exploration & leadership experiences

LEARN BY DOING

- Real-world activities and practical experiences
- Community service projects
- Teamwork & life skill development

GET CAREER READY

US Armed Forces Enlistment

- US Army
- US Air Force
- US Coast Guard
- US Navy
- US Marine Corps
- US Space Force

- **Military Academies**
- US Military Academy - West Point
- US Naval Academy - Annapolis
- US Air Force Academy - Colorado Springs
- US Coast Guard Academy - New London
- US Merchant Marine Academy - Kings Point

FUELING AMBITION

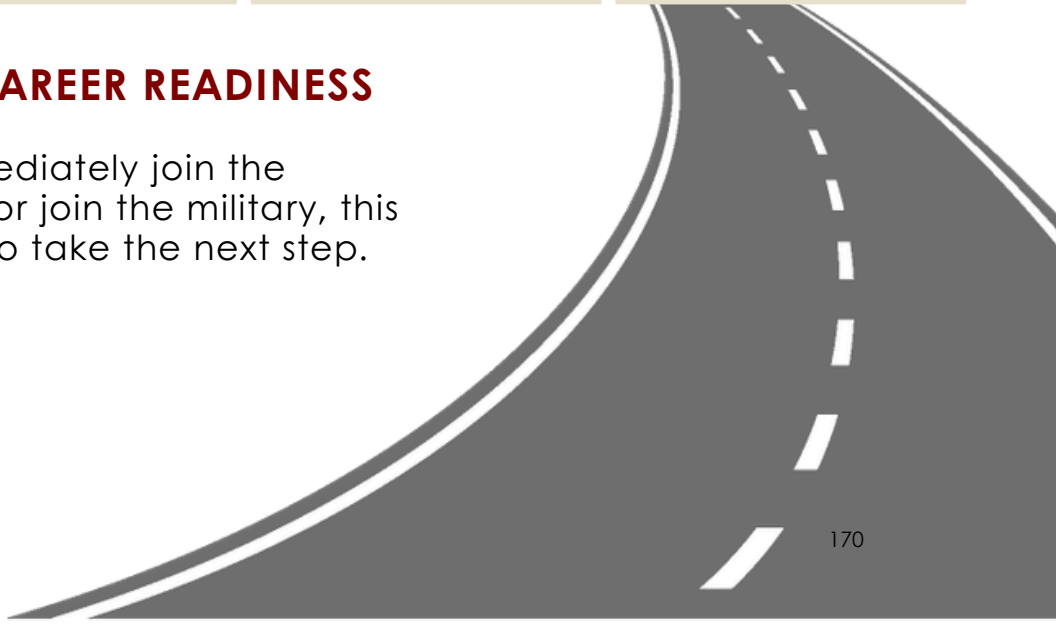
The Marine Corps JROTC (MCJROTC) is a four year academic program focused on leadership and character development. It is designed to develop the leadership abilities of each and every student, regardless of the career path they choose. Instruction emphasizes career exploration, leadership training, history, community service, drill and ceremonies, physical fitness, first aid and health, peer mediation, cultural awareness, marksmanship training, and goal setting.

MARINE CORPS JROTC

INVESTIGATION	NAVIGATION	PREPARATION	APPLICATION
• MCJROTC I	• MCJROTC II	• MCJROTC III	• MCJROTC IV
ALIGNED ENDORSEMENT Public Service	**ALIGNED INDUSTRY-BASED CERTIFICATION(S)** N/A	**RECOMMENDED ADVANCED PLACEMENT** • AP Government • AP History	**ALIGNED DUAL CREDIT** N/A

ALL ROADS LEAD TO CAREER READINESS

Whether you want to immediately join the workforce, go to college, or join the military, this program builds your skills to take the next step.



MARINE CORPS JROTC COURSE DESCRIPTIONS

MCJROTC I

Prerequisite: None

Grade level: 8-12 **Course credit: 1** **1 period, 2 semesters**

Introduction to Leadership and Citizenship Students explore the foundational principles of leadership and citizenship through the lens of Marine Corps traditions and core values. You will develop a personal code of conduct while discovering essential life skills such as time management, stress awareness, and physical health literacy. By examining the achievements of Medal of Honor recipients and the structure of the chain of command, you begin a journey toward becoming a disciplined, civic-minded young adult. This introductory course offers early career exposure and establishes the building blocks for character development and personal responsibility.

MCJROTC II

Prerequisite: MCJROTC I

Grade level: 9-12 **Course credit: 1** **1 period, 2 semesters**

Applied Leadership and Technical Skills Building on foundational concepts, students apply the 11 Leadership Principles and 15 Leadership Traits to motivate and guide small teams in practical exercises. You will master technical industry tools and practices, including air rifle marksmanship and land navigation using the military grid system and lensatic compass. This course emphasizes skill development through guided practice in motivational techniques and the study of constitutional government systems. Students also begin navigating the professional hiring process, bridging classroom theory with real-world career readiness.

MCJROTC III

Prerequisite: MCJROTC II

Grade level: 10-12 **Course credit: 1** **1 period, 2 semesters**

Leadership Proficiency and Strategic Management Students assume positions of increased authority to apply advanced leadership proficiency while managing individual and team performance. You will master the "importance of inspections" by evaluating subordinates and providing constructive feedback, reflecting authentic industry practices for personnel management. This level introduces complex problem-solving through the National Endowment for Financial Education (NEFE) program, where you will develop comprehensive personal financial plans. Through public speaking and the study of national defense, you refine the high-level collaboration and communication skills essential for college and military leadership roles.

MCJROTC IV

Prerequisite: MCJROTC III

Grade level: 11-12 **Course credit: 1** **1 period, 2 semesters**

Leadership Capstone and Industry Readiness Senior students demonstrate industry readiness by serving in high-level unit billets (leadership positions assigned to cadets based on rank and responsibility, modeling the US Marine Corps structure) to supervise training events and conduct formal formations. You will exercise complete independence by researching and teaching original lessons, resolving organizational conflicts, and completing a sophisticated research project on strategic leadership. This capstone experience emphasizes independent work and the practical application of the four indicators of leadership: morale, proficiency, esprit de corps, and discipline. Upon completion, you will emerge as a highly qualified leader prepared for the rigors of higher education, technical careers, or public service.

DISTRICT COURSE PLANNING & SCHEDULING INFORMATION



BELTON CAREER BUILDERS

beltoncareerbuilders.com

BELTON ISD CTE COURSE SUMMARY
2026 - 2027

Key:
*Course is in multiple Programs of Study
^Course aligns with an IBC

CAREER CLUSTER	PROGRAM OF STUDY	COURSE NAME	COURSE LEVEL	HIGH SCHOOL COURSE CREDIT	GRADE LEVEL	PREREQUISITES	BISD COURSE CODE	STATE COURSE CODE	NOTES	BELTON HIGH SCHOOL	LAKE BELTON HIGH SCHOOL	BELTON NEW TECH HIGH SCHOOL	BELTON MIDDLE SCHOOL	NORTH BELTON MIDDLE SCHOOL	LAKE BELTON MIDDLE SCHOOL	SOUTH BELTON MIDDLE SCHOOL
Agriculture, Food, & Natural Resources	Agricultural Technology & Mechanical Systems	Principles of AFNR*	1	1	9-12	None	27241	13000200		✓	✓	-	-	-	-	-
		Ag Mechanics & Metal Technologies	2	1	9-12	None	27220	13002200		✓	✓	-	-	-	-	-
		Ag Structures Design & Fabrication^	3	1	10-12	Ag Mechanics & Metal Technologies	27221	13002300		✓	✓	-	-	-	-	-
		Ag Equipment Design & Fabrication^	4	1	11-12	Ag Mechanics & Metal Technologies	27222	13002350		✓	✓	-	-	-	-	-
		Practicum in AFNR - Ag Tech & Mechanical Systems	4	2	12	2+ courses for 2+ credits in aligned POS including Ag Structures or Ag Equipment	47231 (1st time) 47233 (2nd time)	13002500 (1st time) 13002510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Agriculture, Food, & Natural Resources	Animal Science	Principles of AFNR*	1	1	9-12	None	27241	13000200		✓	✓	-	-	-	-	-
		Small Animal Management	2	0.5	9-12	None	17220	13000400		✓	✓	-	-	-	-	-
		Equine Science	2	0.5	9-12	None	17230	13000500		✓	✓	-	-	-	-	-
		Livestock & Poultry Production	3	1	10-12	1+ course in aligned POS	27242	13000300		✓	✓	-	-	-	-	-
		Veterinary Science^	4	1	11-12	Small Animal + Equine or Livestock & Poultry Production	27230	13000600		✓	✓	-	-	-	-	-
		Advanced Animal Science^	4	1	11-12	Biology Chemistry or IPC Algebra I Geometry Either: Small Animal + Equine or Livestock	27245	13000700	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Practicum in AFNR - Animal Science^	4	2	12	Veterinary Science Advanced Animal Science	47230 (1st time) 47246 (2nd time)	13002500 (1st time) 13002510 (2nd time)	Outside of class clinical hours required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Agriculture, Food, & Natural Resources	Plant Science	Principles of AFNR*	1	1	9-12	None	27241	13000200		✓	✓	-	-	-	-	-
		Greenhouse Operations & Production	2	1	10-12	None	27267	13002050		✓	✓	-	-	-	-	-
		Floral Design^	3	1	10-12	None	27260	13001800	Meets a Fine Arts graduation requirement	✓	✓	-	-	-	-	-
		Advanced Floral Design	4	1	11-12	Floral Design	27262	13001850		✓	✓	-	-	-	-	-
		Advanced Plant & Soil Science	4	1	11-12	Biology Chemistry or IPC	27225	13002100	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Practicum in AFNR - Plant Science	4	2	12	2+ courses for 2+ credits in aligned POS	47240 (1st time) 47245 (2nd time)	13002500 (1st time) 13002510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Architecture & Construction	Carpentry	Principles of Construction^	1	1	9-12	None	27601	13004220		✓	✓	-	-	-	-	-
		Construction Technology I^	2	2	10-12	Principles of Construction	47607	13005100		✓	✓	-	-	-	-	-
		Construction Technology II^	3	2	11-12	Construction Technology I	47615	13005200		✓	✓	-	-	-	-	-
		Practicum in Construction Technology^	4	2	12	Construction Technology II	47616	13005250	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Arts, A/V Technology & Communications	Digital Communications	Principles of Arts, A/V Technology & Communications	1	1	9-12	None	27349	13008200		✓	✓	-	-	-	-	-
		A/V Production I^	2	1	10-12	Principles of Arts, A/V Technology & Communications	27350	13008500		✓	✓	-	-	-	-	-
		A/V Production II + Lab^	3	2	11-12	A/V Production I	27356	13008610	Outside of class work required 2 credit course scheduled for 1 period	✓	✓	-	-	-	-	-
		Practicum in A/V Production	4	2	12	A/V Production II	47360	13008700	Outside of class work required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Principles of Arts, A/V Technology & Communications	1	1	9-12	None	27349	13008200		✓	✓	✓	-	-	-	-
		Commercial Photography I^	2	1	10-12	Principles of Arts, A/V Technology & Communications	27380	13009100		✓	✓	-	-	-	-	-
		Graphic Design & Illustration I^	2	1	10-12	Principles of Arts, A/V Technology & Communications	27370	13008800		✓	✓	✓	-	-	-	-

BELTON ISD CTE COURSE SUMMARY
2026 - 2027

Key:
*Course is in multiple Programs of Study
^Course aligns with an IBC

CAREER CLUSTER	PROGRAM OF STUDY	COURSE NAME	COURSE LEVEL	HIGH SCHOOL COURSE CREDIT	GRADE LEVEL	PREREQUISITES	BISD COURSE CODE	STATE COURSE CODE	NOTES	BELTON HIGH SCHOOL	LAKE BELTON HIGH SCHOOL	BELTON NEW TECH HIGH SCHOOL	BELTON MIDDLE SCHOOL	NORTH BELTON MIDDLE SCHOOL	LAKE BELTON MIDDLE SCHOOL	SOUTH BELTON MIDDLE SCHOOL
Arts, A/V Technology & Communications	Graphic Design & Interactive Media	Commercial Photography II + Lab^	3	2	11-12	Commercial Photography I	27382	13009210	Outside of class work required 2 credit course scheduled for 1 period	✓	✓	-	-	-	-	-
		Graphic Design & Illustration II^	3	1	11-12	Graphic Design I	27375	13008900		✓	✓	✓	-	-	-	-
		Practicum in Commercial Photography	4	2	12	Commercial Photography II + Lab	47385	13009250	Outside of class work required	✓	✓	-	-	-	-	-
		Practicum in Graphic Design^	4	2	12	Graphic Design II	47370	13009000	Outside of class work may be required	✓	✓	✓	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	✓	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	✓	-	-	-	-
Business, Marketing & Finance	Accounting & Financial Services	Principles of BMF*	1	1	9-12	None	27021	13011200		✓	✓	-	-	-	-	-
		Foundations of Business Communication & Technologies*	1	1	9-12	None	27000	13011400		✓	✓	-	-	-	-	-
		Money Matters	1	1	10-12	Recommended pre- or co-requisite: Principles of BMF or Foundations of Business Communications & Technologies	27025	13016200		✓	✓	-	-	-	-	-
		Accounting I^	2	1	10-12	Recommended pre- or co-requisite: Principles of BMF or Foundations of Business Communications & Technologies	27010	13016600		✓	✓	-	-	-	-	-
		Accounting II^	3	1	11-12	Accounting I	27015	13016700	Meets a Math graduation requirement	✓	✓	-	-	-	-	-
		Practicum in Business Management*	4	2	12	2+ courses for 2+ credits in aligned POS	47020	13012200	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Business, Marketing, & Finance	Business Management	Principles of BMF*	1	1	9-12	None	27021	13011200		✓	✓	-	-	-	-	-
		Foundations of Business Communication & Technologies*	1	1	9-12	None	27000	13011400		✓	✓	-	-	-	-	-
		Business Management^	3	1	10-12	Recommended pre- or co-requisite: Principles of BMF or Foundations of Business Communications & Technologies	27032	13012100		✓	✓	-	-	-	-	-
		Statistics & Business Decision Making*	4	1	11-12	Algebra II	27031	13016900	Meets a Math graduation requirement	✓	✓	-	-	-	-	-
		Practicum in Business Management*	4	2	12	2+ courses for 2+ credits in aligned POS	47020	13012200	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Business, Marketing, & Finance	Entrepreneurship	Principles of BMF*	1	1	9-12	None	27021	13011200		✓	✓	-	-	-	-	-
		Foundations of Business Communication & Technologies*	1	1	9-12	None	27000	13011400		✓	✓	-	-	-	-	-
		Entrepreneurship I^	2	1	10-12	None	27030	13011101		-	✓	-	-	-	-	-
		Entrepreneurship II	3	1	11-12	Entrepreneurship I	27038	13011102		-	✓	-	-	-	-	-
		Statistics & Business Decision Making*	4	1	11-12	Algebra II	27031	13016900	Meets a Math graduation requirement	✓	✓	-	-	-	-	-
		CTE Project-Based Capstone	4	1	12	3+ courses for 3+ credits (with a level 2 or higher course, sans Career Prep) in aligned POS	27044	12701101		✓	✓	-	-	-	-	-
		Practicum in Business Management*	4	2	12	2+ courses for 2+ credits in aligned POS	47020	13012200	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Business, Marketing, & Finance	Marketing & Sales	Principles of BMF*	1	1	9-12	None	27021	13011200		✓	✓	-	-	-	-	-
		Virtual Business	2	0.5	10-12	None	17024	13012000		✓	✓	-	-	-	-	-
		Sports & Entertainment Marketing	2	0.5	10-12	Recommended pre- or co-requisite: Principles of BMF or Digital Media	17023	13034600		✓	✓	-	-	-	-	-
		Social Media Marketing	3	0.5	10-12	Recommended pre- or co-requisite: Principles of BMF or Digital Media	17025	13034650		✓	✓	-	-	-	-	-
		Advertising^	3	0.5	10-12	Recommended pre- or co-requisite: Principles of BMF or Digital Media	17030	13034200		✓	✓	-	-	-	-	-
		Statistics & Business Decision Making*	4	1	11-12	Algebra II	27031	13016900	Meets a Math graduation requirement	✓	✓	-	-	-	-	-
		Advanced Marketing	4	2	11-12	1+ course for 1+credit in aligned POS	47030	13034700		✓	✓	-	-	-	-	-

BELTON ISD CTE COURSE SUMMARY
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CAREER CLUSTER	PROGRAM OF STUDY	COURSE NAME	COURSE LEVEL	HIGH SCHOOL COURSE CREDIT	GRADE LEVEL	PREREQUISITES	BISD COURSE CODE	STATE COURSE CODE	NOTES	BELTON HIGH SCHOOL	LAKE BELTON HIGH SCHOOL	BELTON NEW TECH HIGH SCHOOL	BELTON MIDDLE SCHOOL	NORTH BELTON MIDDLE SCHOOL	LAKE BELTON MIDDLE SCHOOL	SOUTH BELTON MIDDLE SCHOOL
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Education & Training	Teaching & Training	Principles of Human Services	1	1	9-12	None	27501	13024200		✓	✓	-	-	-	-	-
		Child Development*	2	1	10-12	Recommended pre- or co-requisitie: Principles of Human Services	27570	13024700		✓	✓	-	-	-	-	-
		Instructional Practices	3	2	11-12	Child Development	47560	13014400	Outside of class work required	✓	✓	-	-	-	-	-
		Practicum in Education & Training^	4	2	12	Instructional Practices	47565	13014500	Outside of class work required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Gateway I (PLTW)*	n/a	n/a	7	None	12343		Course does not count toward POS Completer status	-	-	-	✓	✓	✓	✓
Engineering	Drone	Robotics I	2	1	9-12	None	27769	13037000		-	-	✓	-	-	-	-
		Robotics II	3	1	10-12	Robotics I	27779	13037050		-	-	✓	-	-	-	-
		Introduction to Unmanned Aerial Vehicles (UAV)^	2	1	11-12	2+ courses for 2+ credits in aligned POS	27728	N1304670		-	-	✓	-	-	-	-
		Scientific Research& Design*	4	1	12	Biology Chemistry IPC or Physics 2+ courses for 2+ credits in Engineering Career Cluster	27735	13037200	Meets a Science graduation requirement	-	-	✓	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	-	-	✓	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	-	-	✓	-	-	-	-
Engineering	Engineering Foundations	Gateway I (PLTW)*	n/a	n/a	7	None	12343		Course does not count toward POS Completer status	-	-	-	✓	✓	✓	✓
		Principles of Applied Engineering*	1	1	7-8	None	27705	13036200		-	-	-	✓	✓	✓	✓
		Engineering Design Process^	1	1	9-12	None	27710	12756001		✓	✓	-	-	-	-	-
		Engineering Science	3	1	10-12	Algebra I Biology 1+ course for 1+ credit in Engineering Career Cluster	27715	13037500	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Digital Electronics	3	1	10-12	Algebra I Geometry	27727	13037600	Meets a Math graduation requirement	✓	✓	-	-	-	-	-
		Architectural Engineering^	3	2	11-12	1+ course for 1+ credit in aligned POS	27729	12756065	2 credit course scheduled for 1 period	✓	✓	-	-	-	-	-
		Scientific Research& Design*	4	1	12	Biology Chemistry IPC or Physics 2+ courses for 2+ credits in Engineering Career Cluster	27735	13037200	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Engineering	Mechanical & Aerospace Engineering	Gateway I (PLTW)*	n/a	n/a	7	None	12343		Course does not count toward POS Completer status	-	-	-	✓	✓	✓	✓
		Principles of Applied Engineering*	1	1	7-8	None	27705	13036200		-	-	-	✓	✓	✓	✓
		Introduction to Aerospace & Aviation	1	1	9-12	None	27724	N1304672		-	-	✓	-	-	-	-
		Aerospace Design I	2	1	10-12	Introduction to Aerospace & Aviation	27726	12756040		-	-	✓	-	-	-	-
		Aerospace Design II ^(TBA)	3	2	11-12	Aerospace Design I	TBA	12756045		-	-	✓	-	-	-	-
		Scientific Research& Design*	4	1	12	Biology Chemistry IPC or Physics 2+ courses for 2+ credits in Engineering Career Cluster	27735	13037200	Meets a Science graduation requirement	✓	✓	✓	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	✓	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	✓	-	-	-	-
		Principles of Health Science*	1	1	7* 8-12	None	27100	13020200		✓	✓	-	✓	✓	✓	✓
		Principles of Biomedical Science (PLTW)	1	1	8	Principles of Health Science	27108	N1302092		-	-	-	-	-	-	✓
		Medical Terminology*	2	1	9-12	None	27102	13020300		✓	✓	-	-	-	-	-
		Biotechnology I	2	1	10-12	Biology Recommended pre- or co-requisite: Chemistry, Principles of Biomedical Science, or Principles of Health Science	27708	13036400	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Anatomy & Physiology*	3	1	11-12	Biology Chemistry, IPC, or Physics	27115	13020600	Meets a Science graduation requirement	✓	✓	-	-	-	-	-

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Health Science	Biomedical Science	Medical Microbiology*	3	1	11-12	Biology Chemistry 1+ credit(s) from the Health Science Career Cluster	27116	13020700	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Pathophysiology*	4	1	11-12	Biology Chemistry 1+ credit(s) from the Health Science Career Cluster	27125	13020800	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Practicum in Health Science*	4	2	12	Anatomy & Physiology AND 1+ course for 1+ credit (level 2 or higher) in aligned POS	47115 (1st time) 47219 (2nd time)	13020500 (1st time) 13020510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Health Science	Diagnostic & Therapeutic	Principles of Health Science*	1	1	7* 8-12	None	27100	13020200		✓	✓	-	✓	✓	✓	✓
		Medical Terminology*	2	1	9-12	None	27102	13020300		✓	✓	-	-	-	-	-
		Disaster Response	2	1	10-12	None	27445	N1303011		✓	✓	-	-	-	-	-
		Health Science Theory*	3	1	10-12	Biology	27103	13020400		✓	✓	-	-	-	-	-
		Anatomy & Physiology*	3	1	11-12	Biology Chemistry, IPC, or Physics	27115	13020600	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Medical Microbiology*	3	1	11-12	Biology Chemistry 1+ credit(s) from the Health Science Career Cluster	27116	13020700	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Pathophysiology*	4	1	11-12	Biology Chemistry 1+ credit(s) from the Health Science Career Cluster	27125	13020800	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Practicum in Health Science - Medical Assistant*^	4	2	12	Health Science Theory Anatomy & Physiology	47111 (1st time) 47216 (2nd time)	13020500 (1st time) 13020510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Practicum in Health Science - Patient Care Technician*^	4	2	12	Health Science Theory Anatomy & Physiology	47112 (1st time) 47217 (2nd time)	13020500 (1st time) 13020510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Practicum in Health Science - Pharmacy Technician^	4	2	12	Health Science Theory Anatomy & Physiology	47110 (1st time) 47218 (2nd time)	13020500 (1st time) 13020510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Practicum in Health Science - Phlebotomy Technician*^	4	2	12	Health Science Theory Anatomy & Physiology	47115 (1st time) 47219 (2nd time)	13020500 (1st time) 13020510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Emergency Medical Technician^	3	2	12	Disaster Response Anatomy & Physiology	47104	N1303015	Outside of class clinicals are required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Health Science	Exercise Science, Wellness, & Restoration	Principles of Health Science*	1	1	7* 8-12	None	27100	13020200		✓	✓	-	✓	✓	✓	✓
		Medical Terminology*	2	1	9-12	None	27102	13020300		✓	✓	-	-	-	-	-
		Health Science Theory*	3	1	10-12	Biology	27103	13020400		✓	✓	-	-	-	-	-
		Anatomy & Physiology*	3	1	11-12	Biology Chemistry, IPC, or Physics	27115	13020600	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Practicum in Health Science - Medical Assistant*^	4	2	12	Health Science Theory Anatomy & Physiology	47111 (1st time) 47216 (2nd time)	13020500 (1st time) 13020510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Health Science	Nursing Science	Principles of Health Science*	1	1	7* 8-12	None	27100	13020200		✓	✓	-	✓	✓	✓	✓
		Medical Terminology*	2	1	9-12	None	27102	13020300		✓	✓	-	-	-	-	-
		Health Science Theory*	3	1	10-12	Biology	27103	13020400		✓	✓	-	-	-	-	-
		Medical Microbiology*	3	1	11-12	Biology Chemistry 1+ credit(s) from the Health Science Career Cluster	27116	13020700	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Pathophysiology*	4	1	11-12	Biology Chemistry 1+ credit(s) from the Health Science Career Cluster	27125	13020800	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Practicum in Health Science - Medical Assistant*^	4	2	12	Health Science Theory Anatomy & Physiology	47111 (1st time) 47216 (2nd time)	13020500 (1st time) 13020510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Practicum in Health Science - Patient Care Technician*^	4	2	12	Health Science Theory Anatomy & Physiology	47112 (1st time) 47217 (2nd time)	13020500 (1st time) 13020510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-

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		Practicum in Health Science - Phlebotomy Technician*^	4	2	12	Health Science Theory Anatomy & Physiology	47115 (1st time) 47219 (2nd time)	13020500 (1st time) 13020510 (2nd time)	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Hospitality and Tourism	Culinary Arts	Culinary Arts	2	2	9-12	None	47525	13022600	Outside of class work required 2 credit course scheduled for 1 period	✓	✓	-	-	-	-	-
		Advanced Culinary Arts^	3	2	10-12	Culinary Arts	47530	13022650	Outside of class work may be required	✓	✓	-	-	-	-	-
		Food Science*	4	1	11-12	Biology Chemistry	27590	1302300	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Practicum in Culinary Arts	4	2	11-12	Advanced Culinary Arts	47535 (1st time) 47537 (2nd time)	13022700 (1st time) 13022710 (2nd time)	Outside of class work required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Human Services	Health & Wellness	Principles of Human Services	1	1	9-12	None	27501	13024200		✓	✓	-	-	-	-	-
		Child Development*	2	1	10-12	Recommended pre- or co-requisitie: Principles of Human Services	27570	13024700		✓	✓	-	-	-	-	-
		Counseling & Mental Health*	3	1	11-12	Recommended pre- or co-requisitie: Principles of Human Services	27580	13024600		✓	✓	-	-	-	-	-
		Food Science*	4	1	11-12	Biology Chemistry	27590	1302300	Meets a Science graduation requirement	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Information Technology	Cybersecurity	Fundamentals of Computer Science*	1	1	9-12	None	27756	03580140		✓	✓	-	-	-	-	-
		AP Computer Science Principles*	2	1	9-12	None	27765	A3580300		✓	✓	-	-	-	-	-
		Computer Science I*^	2	1	9-12	Pre- or Co- requisite: Algebra I	27330	03580200		✓	✓	-	-	-	-	-
		AP Computer Science A*^	3	1	10-12	Algebra I	27767 (LOTE) 27766 (MATH)	A3580120 (LOTE) A3580110 (MATH)		✓	✓	-	-	-	-	-
		Cybersecurity Capstone^	4	1	11-12	3+ courses for 3+ credits (with level 2 or higher) in aligned POS	27768	03580855		✓	✓	-	-	-	-	-
		Practicum in Information Technology*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	47762	13028000	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Information Technology	Programming & Software Development	Fundamentals of Computer Science*	1	1	9-12	None	27756	03580140		✓	✓	-	-	-	-	-
		AP Computer Science Principles*	2	1	9-12	None	27765	A3580300		✓	✓	-	-	-	-	-
		Computer Science I*^	2	1	9-12	Pre- or Co- requisite: Algebra I	27330	03580200		✓	✓	-	-	-	-	-
		Computer Science II^	3	1	10-12	Computer Science I	27331	03580300		✓	✓	-	-	-	-	-
		AP Computer Science A*^	3	1	10-12	Algebra I	27767 (LOTE) 27766 (MATH)	A3580120 (LOTE) A3580110 (MATH)		✓	✓	-	-	-	-	-
		Practicum in Information Technology*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	47762	13028000	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Law Enforcement I	2	1	9-12	None	27425	13029300		✓	✓	-	-	-	-	-
		Law Enforcement II	3	1	10-12	Law Enforcement I	27430	13029400		✓	✓	-	-	-	-	-
		Counseling & Mental Health*	3	1	11-12	Recommended pre- or co-requisitie: Principles of Human Services	27580	13024600		✓	✓	-	-	-	-	-
		Forensic Science*	4	1	11-12	Biology Chemistry, IPC, or Physics	27415	13029500	Meets a Science graduation requirement	✓	✓	-	-	-	-	-

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Law & Public Service	Law Enforcement	Criminal Investigation^	2	1	12	Forensic Science Recommended: Law Enforcement I	27440	13029550		✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Law & Public Service	Legal Studies	Court Systems & Practices	2	1	9-12	None	27435	13029600		-	-	✓	-	-	-	-
		Legal Research Systems & Writing	3	1	10-12	Recommended pre- or co-requisitie: Principles of Human Services	27106	13018610		-	-	✓	-	-	-	-
		Advanced Legal Skills & Professions^	3	1	11-12	Court Systems & Practices	27111	N1303016		-	-	✓	-	-	-	-
		Forensic Science*	4	1	11-12	Biology Chemistry, IPC, or Physics	27415	13029500	Meets a Science graduation requirement	✓	✓	✓	-	-	-	-
		Practicum in Law	4	1	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	47425	13030100	Outside of class work may be required	-	-	✓	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	-	-	✓	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	-	-	✓	-	-	-	-
Transportation, Distribution, & Logistics	Automotive & Collision Repair	Automotive Basics	2	1	9-12	None	27656	13039550		✓	✓	-	-	-	-	-
		Automotive I: Automotive Maintenance & Light Repair^	3	2	10-12	Automotive Basics	47655	13039600		✓	✓	-	-	-	-	-
		Automotive II: Automotive Services^	4	2	11-12	Automotive I	47660	13039700		✓	✓	-	-	-	-	-
		Practicum in Transportation Systems^	4	2	12	Automotive II	47655	13040450	Outside of class work may be required	✓	✓	-	-	-	-	-
		Career Preparation for Program of Study*	4	2	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27516	12701121	10 hrs/week related job placement required	✓	✓	-	-	-	-	-
		Extended Career Preparation for Program of Study*	4	3	12	2+ courses for 2+ credits with a level 2 or higher course in aligned POS	27517	12701141	15 hrs/week related job placement required	✓	✓	-	-	-	-	-
Marine Corps JROTC	n/a	Marine Corps JROTC I	1	1	8-12	None	27960	3160100		✓	✓	✓	✓	✓	✓	✓
		Marine Corps JROTC II	2	1	9-12	MCJROTC I	27961	3160200		✓	✓	✓	-	-	-	-
		Marine Corps JROTC III	3	1	10-12	MCJROTC II	27962	3160300		✓	✓	✓	-	-	-	-
		Marine Corps JROTC IV	4	1	11-12	MCJROTC III	27963	3160400		✓	✓	✓	-	-	-	-

June 2026

BELTON ISD INDUSTRY BASED CERTIFICATIONS

CAREER CLUSTER	PROGRAM OF STUDY	IBC EXAM COURSE ALIGNMENT	IBC NAME	IBC CODE	IBC TIER
Agriculture, Food, & Natural Resources	Agricultural Technology & Mechanical Systems	Ag Structures Design & Fabrication	AWS D1.1	340	2
		Ag Structures Equipment Design & Fabrication	AWS D9.1	350	2
	Animal Science	Veterinary Science	Elanco Veterinary Medical Applications	987	3
		Advanced Animal Science	Elanco Fundamentals of Animal Science	986	2
		Practicum in AFNR - Animal Science	Certified Veterinary Assistant, Level 1	420	3
	Plant Science	Floral Design	TX State Florist's Association Knowledge Based Floral Certification	812	3
Architecture & Construction	Carpentry	Principles of Construction	NCCER Core	630	3
		Construction Technology I	NCCER Carpentry	1115	2
		Construction Technology II	NCCER Carpentry Level I	610	2
		Practicum in Construction Technology	NCCER Carpentry Level II	611	2
Arts, A/V Technology & Communications	Digital Communications	A/V Production I	Tosa Adobe Photoshop (Advanced or Expert)	1297	2
		A/V Production II + Lab	Tosa Adobe Premiere Pro (Advanced or Expert)	1298	2
	Graphic Design & Interactive Media	Commercial Photography I	Tosa Adobe Photoshop (Advanced or Expert)	1297	2
		Commercial Photography II+Lab	Tosa Adobe InDesign (Advanced or Expert)	1296	2
		Graphic Design & Illustration I	Tosa Adobe Photoshop (Advanced or Expert)	1297	2
		Graphic Design & Illustration II	Tosa Adobe InDesign (Advanced or Expert)	1296	2
		Practicum in Graphic Design	Tosa Adobe Illustrator (Advanced or Expert)	1295	2
Business, Marketing & Finance	Accounting & Financial Services	Accounting I	VITA - Volunteer Income Tax Assistant/Tax Counseling Certification: Basic	1047	2
		Accounting II	Microsoft Office Specialist: Microsoft Excel Expert (2019+ or 365 Apps)	560	2
	Business Management	Business Management	Microsoft Office Specialist: Microsoft Word Expert (2019+ or 365 Apps)	570	2
			Entrepreneurship & Small Business	512	2
	Entrepreneurship	Entrepreneurship I	Entrepreneurship & Small Business	512	2
	Marketing & Sales	Advertising	Entrepreneurship & Small Business	512	2
Education & Training	Teaching & Training	Practicum in Education & Training	Educational Aide I	511	2
Engineering	Drone	Introduction to Unmanned Aerial Vehicles (UAV)	FAA Part 107 Remote Drone Pilot	534	2
	Engineering Foundations	Engineering Design Process	Autodesk Certified Professional in Inventor for Mechanical Design	947	2
		Architectural Engineering	Autodesk Certified Professional in Revit for Architectural Design	948	2
	Mechanical & Aerospace Engineering	Aerospace Design II	Autodesk Certified User Fusion 360	940	2
Health Science	Biomedical Science		TBA		
	Diagnostic & Therapeutic	Practicum in Health Science - CCMA	Certified EKG	380	2
			Medical Assistant	1019	2
		Practicum in Healht Science - CPCT	Certified EKG	380	2
			Patient Care Technician	786	2
		Practicum in Health Science - Pharmacy	Pharmacy Technician	790	2
		Practicum in Health Science - Phlebotomy	Phlebotomy Technician	800	2
		Disaster Response	Emergency Care Attendant (ECA)	988	2
		Emergency Medical Technician	Emergency Medical Technician - Basic	530	2
	Exercise Science, Wellness, & Restoration	Practicum in Health Science - CCMA	Medical Assistant	1019	2
	Nursing Science	Practicum in Health Science - CCMA	Medical Assistant	1019	2
		Practicum in Health Science - CPCT	Patient Care Technician	786	2
		Practicum in Health Science - Phlebotomy	Phlebotomy Technician	800	2
Hospitality and Tourism	Culinary Arts	Advanced Culinary Arts	ServSafe Manager	811	2
		Food Science	TBD		
Human Services	Health & Wellness	Food Science	TBD		

Information Technology	Cybersecurity	Computer Science I	CompTIA Tech+	481	2
		AP Computer Science A	Oracle Certified Associate Java SE 8 Programmer	770	2
		Cybersecurity Capstone	CompTIA Security+	500	1
	Programming & Software Development	Computer Science I	CompTIA Tech+	481	2
		Computer Science II	Oracle Certified Associate Java SE 8 Programmer	770	2
			CompTIA A+	480	1
		AP Computer Science A	Oracle Certified Associate Java SE 8 Programmer	770	2
Law & Public Service	Law Enforcement	Criminal Investigation	Non-Commissioned Security Officer Level II	761	3
	Legal Studies	Advanced Legal Systems & Professions	General Management	995	2
Transportation, Distribution, & Logistics	Automotive & Collision Repair	Automotive I	ASE Refrigerant Recovery and Recycling	240	2
		Automotive II & Practicum in Transportation Syste	ASE Entry Level Automobile Maintenance and Light Repair (MR)	191	2
			ASE Entry-Level Automobile Automatic Transmission/Transaxle (AT)	121	2
			ASE Entry-Level Automobile Brakes (BR)	141	2
			ASE Entry-Level Automobile Electronic/Electrical Systems (EE)	151	2
			ASE Entry-Level Automobile Engine Performance (EP)	161	2
			ASE Entry-Level Automobile Engine Repair (ER)	171	2
			ASE Entry-Level Automobile Heating and Air Conditioning (AC)	182	2
			ASE Entry-Level Automobile Manual Drive Train and Axles (MD)	201	2
			ASE Entry-Level Automobile Service Technology	131	2
			ASE Entry-Level Automobile Suspension and Steering (SS)	261	2