

CAREER & TECHNICAL EDUCATION



CTE Classes @ CTHS

BUILDING PATHWAY>

PROGRAMS:

- ARCHITECTURE & DRAFTING
- CABINETRY & WOODWORKING
- CONSTRUCTION TRADES
- PRE-ENGINEERING

BUSINESS & INFORMATION TECHNOLOGY PATHWAY>

PROGRAMS:

- ACCOUNTING & FINANCE
- BUSINESS ADMINISTRATION
- COMPUTER SCIENCE TECHNOLOGIES
- DIGITAL MEDIA

FITNESS/SPORTS MEDICINE PATHWAY>

PROGRAMS:

- SPORTS MEDICINE & FITNESS
- PHYSICAL THERAPY

HEALTH PATHWAY>

PROGRAMS:

- PRE-NURSING
- DENTAL ASSISTANT
- HEALTH INFORMATICS
- PHARMACY TECHNICIAN
- BIOMEDICAL SCIENCE

HUMAN SERVICES PATHWAY>

PROGRAMS:

- TEACHER & EDUCATION TRAINING
- VETERINARY ASSISTANT

NATURAL RESOURCES PATHWAY>

PROGRAMS:

- PROCESS TECHNOLOGY & UTILITY OPERATIONS
- WILDLAND FIREFIGHTING

TOURISM & CULINARY PATHWAY>

PROGRAMS:

- CULINARY ARTS

TRANSPORTATION PATHWAY>

PROGRAMS:

- AVIATION TECHNOLOGY
- HYDRAULICS FLUIDS & DIESEL

**CAREER &
TECHNICAL
EDUCATION**

BUILDING PATHWAY



ARCHITECTURE & DRAFTING PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Technical Drafting - **M**
- Technology Applications
- Introduction to Construction - **M**

TECHNICAL (11TH & 12TH)

- Architectural Drafting - **M**
- Technical Math - **M**
- Interior Design
- Housing Concepts

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Calculus (AP)
- Chemistry (AP)
- Physics (AP)

STUDENT ORGANIZATION (CTSO)

- Skills USA

CERTIFICATION

- AutoCAD
- Revit

EARLY COLLEGE CREDIT OPTIONS

COLLEGE
CREDITS

DUAL ENROLLMENT

- Technology Applications 1, 2, 3 3 cr
- Technical Drafting 1 1 cr
- Technical Drafting 2 1 cr
- Technical Drafting 3 & 4
OR Architectural Drafting 1 & 2 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Calculus
- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Career Pathways .5 cr
- Technical Drafting 1 - **M** .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Technology Applications 1 .5 cr
- Technical Drafting 2 - **M** .5 cr
- Technical Drafting 3 - **M** .5 cr
- Introduction to Construction - **M** .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- Architectural Drafting 1 - **M** .5 cr
- Architectural Drafting 2 - **M** .5 cr
- Technical Drafting 4 - **M** .5 cr
- Industrial Safety and First Aid .5 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Architectural Drafting 3 - **M** .5 cr
- Architectural Drafting 4 - **M** .5 cr
- Housing Concepts .5 cr
- Interior Design .5 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- AutoCAD
- Revit

APPRENTICESHIP

- Trade Unions
- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Certificate in Construction Technology
- Certificate in Mechanical & Electrical Engineering
- Certificate in Welding
- Certificate in Architectural Technology
- Certificate in Civil Technology
- Certificate in CAD for Building Construction
- Associate of Applied Science Architectural and Engineering Technology
- Associate of Applied Science in Technology
- Associate of Applied Science in Construction Management
- Bachelor of Science in Construction Management
- Bachelor of Architecture

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**CAREER &
TECHNICAL
EDUCATION**

BUILDING PATHWAY



CABINETRY & WOODWORKING PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Technical Drafting - M
- Housing Concepts
- Cabinetmaking and Woodworking 1 & 2 - M

TECHNICAL (11TH & 12TH)

- Cabinetmaking and Woodworking 3-6 - M
- Technical Math - M
- Interior Design
- Introduction to Construction - M

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry

STUDENT ORGANIZATION (CTSO)

- Skills USA

CERTIFICATION

- AutoCAD
- NCCER

EARLY COLLEGE CREDIT OPTIONS

COLLEGE
CREDITS

DUAL ENROLLMENT

- Technical Drafting 1 1 cr
- Technical Drafting 2 1 cr
- Technical Drafting 3 & 4 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Technical Drafting 1 - M	.5 cr	<input type="checkbox"/> Cabinetmaking and Woodworking 1 - M	.5 cr
<input type="checkbox"/> Technical Drafting 2 - M	.5 cr	<input type="checkbox"/> Cabinetmaking and Woodworking 2 - M	.5 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Industrial Safety and First Aid	.5 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> Technical Drafting 3 - M	.5 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Health	.5 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> PE	1 cr	<input type="checkbox"/> World History	1 cr
11TH GRADE	CREDITS	12TH GRADE	CREDITS
<input type="checkbox"/> Cabinetmaking and Woodworking 3 - M	.5 cr	<input type="checkbox"/> Cabinetmaking and Woodworking 5 - M	.5 cr
<input type="checkbox"/> Cabinetmaking and Woodworking 4 - M	.5 cr	<input type="checkbox"/> Cabinetmaking and Woodworking 6 - M	.5 cr
<input type="checkbox"/> Housing Concepts	.5 cr	<input type="checkbox"/> Introduction to Construction - M	.5 cr
<input type="checkbox"/> Interior Design	.5 cr	<input type="checkbox"/> Technical Math - M	.5 cr
<input type="checkbox"/> Algebra 2	1 cr	<input type="checkbox"/> Advanced Math	1 cr
<input type="checkbox"/> English	1 cr	<input type="checkbox"/> English	1 cr
<input type="checkbox"/> Science	1 cr	<input type="checkbox"/> Science	1 cr
<input type="checkbox"/> U.S. History	1 cr	<input type="checkbox"/> U.S. Government	.5 cr
		<input type="checkbox"/> AK History	.5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<ul style="list-style-type: none"> <input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP 	<ul style="list-style-type: none"> <input type="checkbox"/> Associate of Applied Science in Construction Management <input type="checkbox"/> Bachelor of Science in Construction Management
INDUSTRY CERTIFICATION	
<ul style="list-style-type: none"> <input type="checkbox"/> AutoCAD <input type="checkbox"/> NCCER 	
APPRENTICESHIP	MILITARY
<ul style="list-style-type: none"> <input type="checkbox"/> Trade Unions <input type="checkbox"/> Private Entity 	<ul style="list-style-type: none"> <input type="checkbox"/> U.S. Armed Forces

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**CAREER &
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BUILDING PATHWAY



CONSTRUCTION TRADES PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Technical Drafting - **M**
- Architectural Drafting - **M**

TECHNICAL (11TH & 12TH)

- Construction Trades 1 & 2 - **M**

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Precalculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA

CERTIFICATION

- AutoCAD
- NCCER

EARLY COLLEGE CREDIT OPTIONS

COLLEGE
CREDITS

DUAL ENROLLMENT

- Technical Drafting 1 1 cr
- Technical Drafting 2 1 cr
- Architectural Drafting 1 & 2 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Introduction to Career Pathways	.5 cr	<input type="checkbox"/> Cabinetmaking and Woodworking 1 - M	.5 cr
<input type="checkbox"/> Technical Drafting 1 - M	.5 cr	<input type="checkbox"/> Industrial Safety and First Aid	.5 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Introduction to Construction - M	.5 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> Architectural Drafting 1 - M	.5 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Health	.5 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> PE	1 cr	<input type="checkbox"/> World History	1 cr
		11TH GRADE	CREDITS
		<input type="checkbox"/> Construction Trades 1 (or A & B) - M	2 cr
		<input type="checkbox"/> Algebra 2	1 cr
		<input type="checkbox"/> English	1 cr
		<input type="checkbox"/> Science	1 cr
		<input type="checkbox"/> U.S. History	1 cr
		12TH GRADE	CREDITS
		<input type="checkbox"/> Construction Trades 2 (or C & D) - M	2 cr
		<input type="checkbox"/> Algebra 2	1 cr
		<input type="checkbox"/> English	1 cr
		<input type="checkbox"/> Science	1 cr
		<input type="checkbox"/> U.S. History	1 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP	<input type="checkbox"/> Associate of Applied Science in Construction Management <input type="checkbox"/> Bachelor of Science in Construction Management
INDUSTRY CERTIFICATION	
<input type="checkbox"/> AutoCAD <input type="checkbox"/> NCCER	
APPRENTICESHIP	MILITARY
<input type="checkbox"/> Trade Unions <input type="checkbox"/> Private Entity	<input type="checkbox"/> U.S. Armed Forces

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EDUCATION**

BUILDING PATHWAY

PRE-ENGINEERING PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Technical Drafting 1 & 2 - **M**
- Principles of Engineering - **M**
- Introduction to Engineering Design - **M**

TECHNICAL (11TH & 12TH)

- Technical Drafting 3 & 4 - **M**
- Digital Electronics - **M**
- 3D Solid Modeling - **M**
- Civil Engineering & Architecture - **M**

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA

CERTIFICATION

- AutoCAD
- SolidWorks (CSWA)
- Inventor, Revit

EARLY COLLEGE CREDIT OPTIONS

COLLEGE
CREDITS

DUAL ENROLLMENT

- Technical Drafting 1 1 cr
- Technical Drafting 2 1 cr
- Technical Drafting 3 & 4 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Calculus
- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Engineering Design - **M** 1 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Principles of Engineering - **M** 1 cr
- Technical Drafting 1 - **M** .5 cr
- Technical Drafting 2 - **M** .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- Digital Electronics 1 cr
- OR 3-D Solid Modeling - **M** 1 cr
- Technical Drafting 3 - **M** .5 cr
- Technical Drafting 4 - **M** .5 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Civil Engineering and Architecture - **M** 1 cr
- Cooperative Work Experience 1 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- AutoCAD
- SolidWorks (CSWA)
- Inventor, Revit

APPRENTICESHIP

- Trade Unions
- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Associate of Applied Science in Construction Management
- Bachelor of Science in Construction Management
- Bachelor of Science in Engineering (Civil, Electrical, Mechanical, Chemical)

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CAREER & TECHNICAL EDUCATION

BUSINESS/INFO TECH PATHWAY
BUSINESS, FINANCE



ACCOUNTING & FINANCE PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Technology Applications 1
- Business Skills Lab 1
- Accounting 1 & 2 - M

TECHNICAL (11TH & 12TH)

- Accounting 3 & 4 - M
- Desktop Publishing 1
- Personal Finance - M
- Computerized Accounting - M
- Entrepreneurship - SS/LA
- Business Law - SS
- Yearbook/Project Management - LA

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA
- BPA

CERTIFICATION

- MOS - Word, Excel, Word Expert, Excel Expert, PowerPoint, Access
- IC3
- Adobe InDesign
- Entrepreneur/Small Business

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Technology Applications 1, 2, 3 3 cr
- Personal Finance 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Career Pathways .5 cr
- Technology Applications 1 .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Accounting 1 - M .5 cr
- Accounting 2 - M .5 cr
- Introduction to Business .5 cr
- Business Skills Lab 1 .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- Accounting 3 - M .5 cr
- Accounting 4 - M .5 cr
- Desktop Publishing 1 .5 cr
- Personal Finance - M .5 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Computerized Accounting - M .5 cr
- Entrepreneurship - SS/LA .5 cr
- Business Law - SS .5 cr
- Cooperative Work Experience/ Yearbook/ Project Management (LA) or other Business Electives .5 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- Microsoft Office Specialist
- Adobe
- Entrepreneur/Small Business

APPRENTICESHIP

- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Occupational Endorsement Certificate in: Bookkeeping, Business Leadership, Administrative Assistant, Accounting, Financial Services
- Representative and Entrepreneurship
- Associate of Applied Science - Accounting, Business,
- Bachelor of Business Administration - Accounting and Finance
- Master of Business Administration
- Master of Accounting

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BUSINESS/INFO TECH PATHWAY
BUSINESS, MANAGEMENT & ADMINISTRATION



BUSINESS ADMINISTRATION PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Technology Applications 1
- Accounting 1 & 2 - **M**
- Desktop Publishing

TECHNICAL (11TH & 12TH)

- Introduction to Business
- Business Law - **SS**
- Project Management/Yearbook - **LA**
- Personal Finance - **M**
- Entrepreneurship - **SS/LA**
- Marketing - **SS**

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA
- BPA

CERTIFICATION

- MOS - Word, Excel, Word Expert, Excel Expert, PowerPoint, Access
- IC3
- Adobe InDesign
- Adobe Photoshop
- Entrepreneur/Small Business

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Technology Applications 1, 2, 3 3 cr
- Personal Finance 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Introduction to Career Pathways	.5 cr	<input type="checkbox"/> Accounting 1 - M	.5 cr
<input type="checkbox"/> Technology Applications 1	.5 cr	<input type="checkbox"/> Accounting 2 - M	.5 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Desktop Publishing 1	.5 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> Desktop Publishing 2	.5 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Health	.5 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> PE	1 cr	<input type="checkbox"/> World History	1 cr
11TH GRADE	CREDITS	12TH GRADE	CREDITS
<input type="checkbox"/> Introduction to Business	.5 cr	<input type="checkbox"/> Personal Finance - M	.5 cr
<input type="checkbox"/> Business Law - SS	.5 cr	<input type="checkbox"/> Entrepreneurship - SS/LA	.5 cr
<input type="checkbox"/> Project Management/Yearbook - LA	1 cr	<input type="checkbox"/> Marketing - SS	.5 cr
<input type="checkbox"/> Algebra 2	1 cr	<input type="checkbox"/> Cooperative Work Experience/ Yearbook/Project Management (LA) or other Business Electives	.5 cr
<input type="checkbox"/> English	1 cr	<input type="checkbox"/> Advanced Math	1 cr
<input type="checkbox"/> Science	1 cr	<input type="checkbox"/> English	1 cr
<input type="checkbox"/> U.S. History	1 cr	<input type="checkbox"/> Science	1 cr
		<input type="checkbox"/> U.S. Government	.5 cr
		<input type="checkbox"/> AK History	.5 cr

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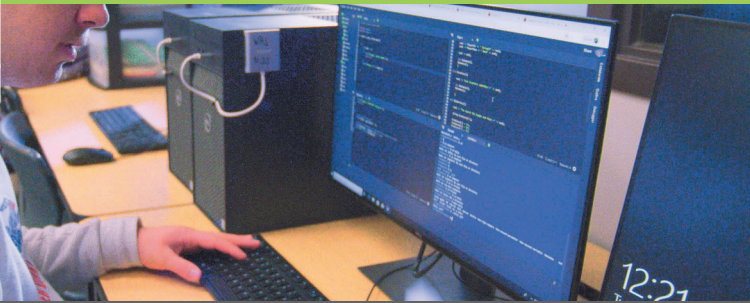
STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<ul style="list-style-type: none"> <input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP 	<ul style="list-style-type: none"> <input type="checkbox"/> Occupational Endorsement Certificate in: Bookkeeping, Business Leadership, Administrative Assistant, Accounting, Financial Services Representative and Entrepreneurship <input type="checkbox"/> Associate of Applied Science - Accounting, Business <input type="checkbox"/> Bachelor of Business Administration - Accounting and Finance <input type="checkbox"/> Master of Business Administration <input type="checkbox"/> Master of Accounting
INDUSTRY CERTIFICATION	
<ul style="list-style-type: none"> <input type="checkbox"/> Microsoft Office Specialist <input type="checkbox"/> Adobe <input type="checkbox"/> Entrepreneur/Small Business 	
APPRENTICESHIP	MILITARY
<ul style="list-style-type: none"> <input type="checkbox"/> Trade Unions <input type="checkbox"/> Private Entity 	<ul style="list-style-type: none"> <input type="checkbox"/> U.S. Armed Forces

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**CAREER &
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EDUCATION**

BUSINESS/INFO TECH PATHWAY
INFORMATION TECHNOLOGY



COMPUTER SCIENCE TECHNOLOGIES PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Internet of Everything - LA
- CS.Create - M
- A+
- N+
- Robotics - S
- Competition Robotics - S

TECHNICAL (11TH & 12TH)

- CISCO - M

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA
- BPA

CERTIFICATION

- MOS - Word, Excel, Word Expert, Excel Expert, PowerPoint, Access
- IC3
- Adobe InDesign
- Adobe Photoshop
- Entrepreneur/Small Business

**EARLY COLLEGE CREDIT
OPTIONS**

COLLEGE
CREDITS

DUAL ENROLLMENT

- A+ 3 cr
- CISCO Networking 1-4 up to 16 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Computer Science Principles
- AP Computer Science A

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Internet of Everything- LA .5 cr
- CS.Create - M .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- A+ .5 cr
- N+ .5 cr
- Robotics - S .5 cr
- Competition Robotics - S .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- CISCO Networking 1 - M 1 cr
- CISCO Networking 2 - M 1 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- CISCO Networking 3 - M 1 cr
- CISCO Networking 4 OR AP Computer Science A - M 1 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- Microsoft Office Specialist
- Adobe
- Entrepreneur/Small Business

APPRENTICESHIP

- Trade Unions
- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Occupational Endorsement Certificate in: IT Support Desk Technician, Virtual Communication, Web Engineering, Cisco-Certified Network Associate
- Undergraduate Certificate in Information Technology Specialist
- Associate of Applied Science - Information Technology Specialist, Computer Systems and Network Technology, Computer Science
- Bachelor of Business Administration - Computer Science, Computer Science Engineering
- Master of Business Administration
- Master of Computer Science

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CAREER & TECHNICAL EDUCATION

BUSINESS/INFO TECH PATHWAY
ARTS, A/V TECHNOLOGY & COMMUNICATIONS



DIGITAL MEDIA PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Digital Media 1 & 2 - LA
- Web Page Authoring - LA
- Web Site Manager
- Photography

TECHNICAL (11TH & 12TH)

- Marketing - SS
- Entrepreneurship - SS/LA
- Digital Media 3 & 4 - LA

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA
- BPA

CERTIFICATION

- Adobe

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics
- AP Literature and Composition

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Digital Media 1 - LA 1 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Digital Media 2 - LA 1 cr
- Web Page Authoring - LA .5 cr
- Web Page Manager .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- Digital Media 3 - LA 1 cr
- Photography .5 cr
- Elective .5 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Digital Media 4 - LA 1 cr
- Marketing - SS .5 cr
- Entrepreneurship - SS/LA .5 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- Microsoft Office Specialist
- Adobe
- National Association of Broadcasters
- Society of Broadcast Engineers
- Radio Advertising Bureau, Certificate of Radio Marketing Consultant; Certificate of Master Script Writer; Broadcast Management

APPRENTICESHIP

- Private Entity

MILITARY

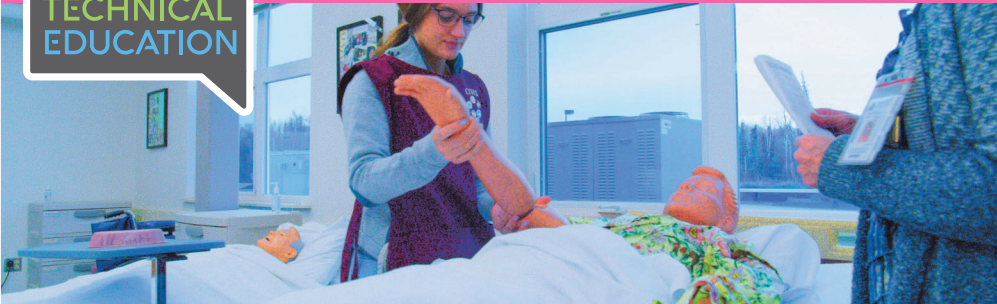
- U.S. Armed Forces

COLLEGE

- Occupational Endorsement Certificate in Virtual Communication
- Associate of Communication
- Associate of Digital Media
- Associate in Advertising
- Associate in Journalism
- Associate in Public Relations
- Bachelor of Art in Journalism and Public Communications
- Bachelor of Art in Communication
- Master of Art Communication, Professional

*Listed Certifications, Apprenticeships and College Degree Programs represent a SAMPLE of available credentials. Available credentials are subject to change due to industry and postsecondary institution changes.

FITNESS/HEALTH SCIENCES PATHWAY



PHYSICAL THERAPY PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Health Occupations

TECHNICAL (11TH & 12TH)

- Medical Terminology - S
- Introduction to Fitness Professions
- Physiology of Exercise and Fitness

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA
- HOSA

CERTIFICATION

- CPR/First Aid
- Athletic Trainer Certified
- Certified Personal Trainer

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Health Occupations 3 cr
- Medical Terminology 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Career Pathways .5 cr
- Health Occupations .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Industrial Safety and First Aid .5 cr
- Foods & Nutrition - S .5 cr
- PE 1 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- Medical Terminology - S 1 cr
- Sports Conditioning .5 cr
- Advanced Weight Training .5 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Physiology of Exercise and Fitness 1 cr
- Introduction to Fitness Professions 1 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- CPR/First Aid
- Athletic Trainer Certified
- Certified Personal Trainer
- Physical Therapist
- Certified Occupational Therapy Assistant
- Coaching Certification
- Massage Therapy

APPRENTICESHIP

- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Associate of Applied Science in Physical Therapist Assistant
- Associate in Applied Science in Business Administration in Health
- Club Operations
- Minor in Athletic Training
- Bachelor of Science in Athletic Training
- Bachelor of Science in Kinesiology
- Bachelor of Science in Sports Management
- Bachelor of Science in Sports Marketing and Media
- Master of Education - Sport and Athletic Management
- Master of Science in Athletic Training
- Professional Doctorate in Occupational Therapy

*Listed Certifications, Apprenticeships and College Degree Programs represent a SAMPLE of available credentials. Available credentials are subject to change due to industry and postsecondary institution changes.



SPORTS MEDICINE & FITNESS PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Health Occupations
- Industrial Safety and First Aid
- Foods & Nutrition - S
- Introduction to Careers in Health & Fitness - S

TECHNICAL (11TH & 12TH)

- Medical Terminology - S
- Introduction to Fitness Professions
- Physiology of Exercise and Fitness

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA
- HOSA

CERTIFICATION

- CPR/First Aid
- Athletic Trainer Certified
- Certified Personal Trainer

**EARLY COLLEGE CREDIT
OPTIONS**

COLLEGE
CREDITS

DUAL ENROLLMENT

- Health Occupations 3 cr
- Medical Terminology 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Career Pathways .5 cr
- Health Occupations .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Industrial Safety and First Aid .5 cr
- Foods & Nutrition - S .5 cr
- Introduction to Careers in Health and Fitness - S .5 cr
- PE .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- Medical Terminology - S 1 cr
- Sports Conditioning .5 cr
- Advanced Weight Training .5 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Physiology of Exercise and Fitness 1 cr
- Introduction to Fitness Professions 1 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- Athletic Trainer Certified
- Certified Personal Trainer
- Physical Therapist
- Certified Occupational Therapy Assistant
- Coaching Certification
- Massage Therapy

APPRENTICESHIP

- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Associate of Applied Science in Physical Therapist Assistant
- Associate in Applied Science in Business Administration in Health
- Club Operations
- Minor in Athletic Training
- Bachelor of Science in Athletic Training
- Bachelor of Science in Kinesiology
- Bachelor of Science in Sports Management
- Bachelor of Science in Sports Marketing and Media
- Master of Education - Sport and Athletic Management
- Master of Science in Athletic Training
- Professional Doctorate in Occupational Therapy

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BIOMEDICAL SCIENCE PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Principles of Biomedical Sciences - S
- Health Occupations
- Human Body Systems - S

TECHNICAL (11TH & 12TH)

- Medical Terminology - S
- Medical Interventions - S
- Pharmacy Technician - S
- Biomedical Innovation - S
- Cooperative Work Experience

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- HOSA

CERTIFICATION

- CPR/First Aid
- PTCB

**EARLY COLLEGE CREDIT
OPTIONS**

COLLEGE
CREDITS

DUAL ENROLLMENT

- Health Occupations 3 cr
- Medical Terminology 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Calculus
- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Principles of Biomedical Sciences - S	1 cr	<input type="checkbox"/> Health Occupations	.5 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Human Body Systems - S	1 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> Electives	.5 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Health	.5 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> PE	1 cr	<input type="checkbox"/> World History	1 cr

11TH GRADE	CREDITS	12TH GRADE	CREDITS
<input type="checkbox"/> Medical Terminology - S	1 cr	<input type="checkbox"/> Pharmacy Technician - S	1 cr
<input type="checkbox"/> Medical Interventions - S	1 cr	<input type="checkbox"/> Biomedical Innovation - S	1 cr
<input type="checkbox"/> Algebra 2	1 cr	<input type="checkbox"/> Advanced Math	1 cr
<input type="checkbox"/> English	1 cr	<input type="checkbox"/> English	1 cr
<input type="checkbox"/> Science	1 cr	<input type="checkbox"/> Science	1 cr
<input type="checkbox"/> U.S. History	1 cr	<input type="checkbox"/> U.S. Government	.5 cr
		<input type="checkbox"/> AK History	.5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<input type="checkbox"/> Dual Enrollment	<input type="checkbox"/> Occupational Endorsement Certificate in Certified Nurse Aide
<input type="checkbox"/> Academic AP	<input type="checkbox"/> Occupational Endorsement Certificate in Pharmacy Technology
	<input type="checkbox"/> Occupational Endorsement Certificate in Phlebotomist
	<input type="checkbox"/> Associate of Applied Science in Diagnostic Medical Sonography
	<input type="checkbox"/> Associate of Applied Science in Medical Laboratory Technology
	<input type="checkbox"/> Associate of Applied Science in Radiologic or Surgical Technology
	<input type="checkbox"/> Bachelor of Science in Nursing
	<input type="checkbox"/> Bachelor of Science in Medical Laboratory Science
	<input type="checkbox"/> Graduate Certificate in Family Nurse Practitioner or Nursing
	<input type="checkbox"/> Education
	<input type="checkbox"/> Master of Science in Nursing Science
<input type="checkbox"/> Private Entity	<input type="checkbox"/> Doctor of Nursing Practice in Nursing Science
<input type="checkbox"/> U.S. Armed Forces	

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CAREER & TECHNICAL EDUCATION

HEALTH/HEALTH SCIENCES PATHWAY



DENTAL ASSISTANT PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Health Occupations
- Introduction to Pharmacy - **S**
- Medical Math - **M**

TECHNICAL (11TH & 12TH)

- Food Science - **S**
- Medical Terminology - **S**
- Dental Assistant - **S**
- Pharmacy Technician - **S**

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA
- HOSA

CERTIFICATION

- CPR/First Aid
- PTCB

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Introduction to Pharmacy 3 cr
- Dental Assistant 1 cr
- Health Occupations 3 cr
- Medical Terminology 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Calculus
- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Career Pathways .5 cr
- Health Occupations .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Introduction to Pharmacy - **S** .5 cr
- Medical Math - **M** .5 cr
- Foods & Nutrition - **S** .5 cr
- Psychology .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- Medical Terminology - **S** 1 cr
- Food Science - **S** .5 cr
- Human Relations/Elective - **SS** .5 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Pharmacy Technician - **S** 1 cr
- Dental Assistant - **S** 1 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- CPR/First Aid
- Physical Therapist
- Pharmacy Technician Certification Board (PTCB)
- Certified Occupational Therapy Assistant
- Certification in Dental Laboratory Technology
- Massage Therapy
- Pharmacy Assistant/Technician
- Medical Assistant

APPRENTICESHIP

- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Occupational Endorsement Certificate in Certified Nurse Aide
- Occupational Endorsement Certificate in Phlebotomist
- Undergraduate Certificate in Dental Assisting
- Undergraduate Certificate in Medical/Dental Reception
- Associate of Applied Science in Dental Assisting
- Associate of Applied Science in Dental Laboratory Technology
- Bachelor of Science in Dental Hygiene
- Bachelor of Science in Medical Laboratory Science
- Master of Science in Nursing Science
- Master of Science in Dental Hygiene
- Doctor of Dental Surgery or Dental Medicine

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CAREER & TECHNICAL EDUCATION

HEALTH/HEALTH SCIENCES PATHWAY



HEALTH INFORMATICS PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Health Occupations
- Technology Applications 1 & 2
- Intro to Pharmacy - **S**
- Medical Math - **M**

TECHNICAL (11TH & 12TH)

- Technology Applications 3
- Medical Office Procedures
- Medical Terminology - **S**
- Medical Coding and Billing
- Pharmacy Technician - **S**

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Pre-Calculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- HOSA

CERTIFICATION

- CPR/First Aid

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Introduction to Pharmacy 3 cr
- Health Occupations 3 cr
- Medical Terminology 3 cr
- Technology Applications 1, 2, 3 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Calculus
- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Introduction to Career Pathways	.5 cr	<input type="checkbox"/> Introduction to Pharmacy - S	.5 cr
<input type="checkbox"/> Health Occupations	.5 cr	<input type="checkbox"/> Medical Math - M	.5 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Technology Applications 1	.5 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> Technology Applications 2	.5 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Health	.5 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> PE	1 cr	<input type="checkbox"/> World History	1 cr
11TH GRADE	CREDITS	12TH GRADE	CREDITS
<input type="checkbox"/> Medical Terminology - S	1 cr	<input type="checkbox"/> Pharmacy Technician - S	1 cr
<input type="checkbox"/> Technology Applications 3	.5 cr	<input type="checkbox"/> Medical Coding and Billing	1 cr
<input type="checkbox"/> Medical Office Procedures	.5 cr	<input type="checkbox"/> Advanced Math	1 cr
<input type="checkbox"/> Algebra 2	1 cr	<input type="checkbox"/> English	1 cr
<input type="checkbox"/> English	1 cr	<input type="checkbox"/> Science	1 cr
<input type="checkbox"/> Science	1 cr	<input type="checkbox"/> U.S. Government	.5 cr
<input type="checkbox"/> U.S. History	1 cr	<input type="checkbox"/> AK History	.5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<ul style="list-style-type: none"> <input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP 	<ul style="list-style-type: none"> <input type="checkbox"/> Occupational Endorsement Certificate in Medical Office Reception <input type="checkbox"/> Occupational Endorsement Certificate in Phlebotomist <input type="checkbox"/> Undergraduate Certificate in Medical and Dental Reception <input type="checkbox"/> Undergraduate Certificate in Health Information Management Coding Specialist <input type="checkbox"/> Associate of Applied Science in Medical Office Administration <input type="checkbox"/> Associate of Applied Science in Medical Assisting <input type="checkbox"/> Associate of Applied Science in Medical Laboratory Technology <input type="checkbox"/> Bachelor of Science in Nursing <input type="checkbox"/> Bachelor of Science in Medical Laboratory Science <input type="checkbox"/> Graduate Certificate in Family Nurse Practitioner or Nursing Education <input type="checkbox"/> Doctor of Nursing Practice in Nursing Science
INDUSTRY CERTIFICATION	
<ul style="list-style-type: none"> <input type="checkbox"/> CPR/First Aid <input type="checkbox"/> Physical Therapist <input type="checkbox"/> Pharmacy Technician Certification Board (PTCB) <input type="checkbox"/> Certified Occupational Therapy Assistant <input type="checkbox"/> Massage Therapy <input type="checkbox"/> Pharmacy Assistant/Technician <input type="checkbox"/> Medical Assistant 	
APPRENTICESHIP	MILITARY
<ul style="list-style-type: none"> <input type="checkbox"/> Private Entity 	<ul style="list-style-type: none"> <input type="checkbox"/> U.S. Armed Forces

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CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)	TECHNICAL (11TH & 12TH)
<ul style="list-style-type: none"> <input type="checkbox"/> Intro to Career Pathways <input type="checkbox"/> Health Occupations <input type="checkbox"/> Technology Applications 1 & 2 <input type="checkbox"/> Intro to Pharmacy - S <input type="checkbox"/> Medical Math - M 	<ul style="list-style-type: none"> <input type="checkbox"/> Technology Applications 3 <input type="checkbox"/> Medical Office Procedures <input type="checkbox"/> Medical Terminology - S <input type="checkbox"/> Medical Billing and Coding <input type="checkbox"/> Pharmacy Technician - S

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR	EARLY COLLEGE CREDIT OPTIONS	COLLEGE CREDITS
<ul style="list-style-type: none"> <input type="checkbox"/> Precalculus with Trigonometry <input type="checkbox"/> Chemistry <input type="checkbox"/> Physics 	<p>DUAL ENROLLMENT</p> <ul style="list-style-type: none"> <input type="checkbox"/> Introduction to Pharmacy 3 cr <input type="checkbox"/> Health Occupations 3 cr <input type="checkbox"/> Medical Terminology 3 cr 	
<p>STUDENT ORGANIZATION (CTSO)</p> <ul style="list-style-type: none"> <input type="checkbox"/> HOSA 		
<p>CERTIFICATION</p> <ul style="list-style-type: none"> <input type="checkbox"/> CPR/First Aid <input type="checkbox"/> PTCB <input type="checkbox"/> CNA 	<p>AP (WITH PASSING SCORE ON AP EXAM)</p> <ul style="list-style-type: none"> <input type="checkbox"/> AP Calculus <input type="checkbox"/> AP Biology <input type="checkbox"/> AP Chemistry <input type="checkbox"/> AP Physics 	

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<ul style="list-style-type: none"> <input type="checkbox"/> Introduction to Career Pathways .5 cr <input type="checkbox"/> Health Occupations .5 cr <input type="checkbox"/> Algebra 1 1 cr <input type="checkbox"/> English 1 1 cr <input type="checkbox"/> Biology 1 cr <input type="checkbox"/> Civics .5 cr <input type="checkbox"/> Health .5 cr <input type="checkbox"/> PE 1 cr 		<ul style="list-style-type: none"> <input type="checkbox"/> Introduction to Pharmacy - S .5 cr <input type="checkbox"/> Medical Math - M .5 cr <input type="checkbox"/> Forensics 1 .5 cr <input type="checkbox"/> Forensics 2 .5 cr <input type="checkbox"/> Geometry 1 cr <input type="checkbox"/> English 2 1 cr <input type="checkbox"/> Anatomy & Physiology 1 cr <input type="checkbox"/> World History 1 cr 	
11TH GRADE	CREDITS	12TH GRADE	CREDITS
<ul style="list-style-type: none"> <input type="checkbox"/> Medical Terminology - S 1 cr <input type="checkbox"/> Bacteriology 1 .5 cr <input type="checkbox"/> Bacteriology 2 .5 cr <input type="checkbox"/> Algebra 2 1 cr <input type="checkbox"/> English 1 cr <input type="checkbox"/> Chemistry 1 cr <input type="checkbox"/> U.S. History 1 cr 		<ul style="list-style-type: none"> <input type="checkbox"/> Pharmacy Technician - S 1 cr <input type="checkbox"/> Advanced Math 1 cr <input type="checkbox"/> World Language/Elective 1 cr <input type="checkbox"/> English 1 cr <input type="checkbox"/> Physics 1 cr <input type="checkbox"/> U.S. Government .5 cr <input type="checkbox"/> AK History .5 cr 	

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<ul style="list-style-type: none"> <input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP 	<ul style="list-style-type: none"> <input type="checkbox"/> Occupational Endorsement Certificate in Certified Nurse Aide <input type="checkbox"/> Occupational Endorsement Certificate in Pharmacy Technology <input type="checkbox"/> Occupational Endorsement Certificate in Phlebotomist <input type="checkbox"/> Associate of Applied Science in Medical Assisting <input type="checkbox"/> Associate of Applied Science in Medical Laboratory Technology <input type="checkbox"/> Associate of Applied Science in Nursing <input type="checkbox"/> Bachelor of Science in Nursing <input type="checkbox"/> Bachelor of Science in Medical Laboratory Science <input type="checkbox"/> Master of Science in Nursing Science <input type="checkbox"/> Doctor of Nursing Practice in Nursing Science <input type="checkbox"/> Doctor of Pharmacy
INDUSTRY CERTIFICATION	
<ul style="list-style-type: none"> <input type="checkbox"/> CPR/First Aid <input type="checkbox"/> Physical Therapist <input type="checkbox"/> CNA <input type="checkbox"/> Pharmacy Technician Certification Board (PTCB) <input type="checkbox"/> Certified Occupational Therapy Assistant <input type="checkbox"/> Massage Therapy <input type="checkbox"/> Pharmacy Assistant/Technician <input type="checkbox"/> Medical Assistant 	
APPRENTICESHIP	MILITARY
<ul style="list-style-type: none"> <input type="checkbox"/> Private Entity 	<ul style="list-style-type: none"> <input type="checkbox"/> U.S. Armed Forces

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CAREER & TECHNICAL EDUCATION

HEALTH/HEALTH SCIENCES PATHWAY



PRE-NURSING PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Health Occupations
- Industrial Safety and First Aid
- Introduction to Pharmacy - **S**
- Medical Math - **M**

TECHNICAL (11TH & 12TH)

- Medical Terminology - **S**
- Pharmacy Technician - **S**
- Certified Nurse Assistant - **S**

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Precalculus and Trigonometry
- Chemistry
- Anatomy & Physiology

STUDENT ORGANIZATION (CTSO)

- HOSA
- Skills USA

CERTIFICATION

- CPR/First Aid
- Certified Nursing Assistant

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Health Occupations 3 cr
- Introduction to Pharmacy 3 cr
- Medical Terminology 3 cr
- Certified Nurse Assistant 6 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Career Pathways .5 cr
- Health Occupations .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Introduction to Pharmacy - **S** .5 cr
- Medical Math - **M** .5 cr
- Industrial Safety and First Aid .5 cr
- Elective .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- Medical Terminology - **S** 1 cr
- Pharmacy Technician - **S** 1 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Certified Nurse Assisting - **S** 2 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- CPR/First Aid
- Certified Nursing Assistant
- PTCB Certification
- CPT
- Phlebotomist
- Licensed Practical Nurse
- Registered Nurse

APPRENTICESHIP

- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Occupational Endorsement Certificate in Certified Nurse Aide
- Occupational Endorsement Certificate in Pharmacy Technology
- Occupational Endorsement Certificate in Phlebotomist
- Associate of Applied Science in Medical Assisting
- Associate of Applied Science in Medical Laboratory Technology
- Associate of Applied Science in Nursing
- Bachelor of Science in Nursing
- Bachelor of Science in Medical Laboratory Science
- Master of Science in Nursing Science
- Doctor of Nursing Practice in Nursing Science

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CAREER & TECHNICAL EDUCATION

HUMAN SERVICES PATHWAY



TEACHER & EDUCATION TRAINING PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Child Study - **SS**
- Intro to Career in Education - **SS**

TECHNICAL (11TH & 12TH)

- Leadership Development - **SS**
- Educational Development and Psychology - **SS**
- Classroom Planning and Management - **SS**
- The Professional Teacher - **SS/LA**

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Precalculus with Trigonometry
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Educators Rising

CERTIFICATION

- Microsoft Office Specialist
- Educators Rising Microcredentials

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Technology Applications 1, 2, 3 3 cr
- Leadership Development and Educational Development and Psychology 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Introduction to Career Pathways - SS	.5 cr	<input type="checkbox"/> Child Study - SS	.5 cr
<input type="checkbox"/> Psychology	.5 cr	<input type="checkbox"/> Introduction to Careers in Education - SS	.5 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Foods & Nutrition - S	.5 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> Technology Applications 1	.5 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Health	.5 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> PE	1 cr	<input type="checkbox"/> World History	1 cr
11TH GRADE		12TH GRADE	
CREDITS		CREDITS	
<input type="checkbox"/> Leadership Development - SS	.5 cr	<input type="checkbox"/> Classroom Planning and Management - SS	.5 cr
<input type="checkbox"/> Educational Development & Psychology - SS	.5 cr	<input type="checkbox"/> The Professional Teacher - SS/LA	.5 cr
<input type="checkbox"/> World Language/Elective	1 cr	<input type="checkbox"/> Electives (Teacher Aide)	1 cr
<input type="checkbox"/> Algebra 2	1 cr	<input type="checkbox"/> Advanced Math	1 cr
<input type="checkbox"/> English	1 cr	<input type="checkbox"/> English	1 cr
<input type="checkbox"/> Science	1 cr	<input type="checkbox"/> Science	1 cr
<input type="checkbox"/> U.S. History	1 cr	<input type="checkbox"/> U.S. Government	.5 cr
		<input type="checkbox"/> AK History	.5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<ul style="list-style-type: none"> <input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP 	<ul style="list-style-type: none"> <input type="checkbox"/> Associate of Applied Science in Early Childhood Development <input type="checkbox"/> Bachelor of Arts in Education (Multiple concentrations) <input type="checkbox"/> Master of Education (Multiple concentrations) <input type="checkbox"/> Master of Education Counseling <input type="checkbox"/> Graduate Certificate Educational Leadership: Principal <input type="checkbox"/> Doctor of Education
INDUSTRY CERTIFICATION	
<ul style="list-style-type: none"> <input type="checkbox"/> Microsoft Office Specialist <input type="checkbox"/> Educators Rising Microcredentials <input type="checkbox"/> Paraprofessional <input type="checkbox"/> Teacher <input type="checkbox"/> School Counselor <input type="checkbox"/> Education Administrator 	
APPRENTICESHIP	MILITARY
<ul style="list-style-type: none"> <input type="checkbox"/> Private Entity 	<ul style="list-style-type: none"> <input type="checkbox"/> U.S. Armed Forces

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CAREER & TECHNICAL EDUCATION

HUMAN SERVICES PATHWAY



VETERINARY ASSISTANT PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Health Occupations
- Introduction to Agriculture - **S**
- Introduction to Animal Science - **S**
- Introduction to Veterinary Science - **S**
- Medical Math - **M**

TECHNICAL (11TH & 12TH)

- Industrial Safety and First Aid
- Medical Terminology - **S**
- Veterinary Assistant 1 & 2 - **S**

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Precalculus and Trigonometry
- Chemistry
- Anatomy & Physiology

STUDENT ORGANIZATION (CTSO)

- HOSA
- FFA

CERTIFICATION

- CPR/First Aid
- Texas A&M Veterinary Assistant

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Health Occupations 3 cr
- Introduction to Pharmacy 3 cr
- Medical Terminology 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Health Occupations	.5 cr	<input type="checkbox"/> Medical Math - M	.5 cr
<input type="checkbox"/> Introduction to Agriculture - S	.5 cr	<input type="checkbox"/> Introduction to Animal Science - S	.5 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Introduction to Veterinary Science - S	.5 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> AK Wildlife	.5 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Health	.5 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> PE	1 cr	<input type="checkbox"/> World History	1 cr
11TH GRADE	CREDITS	12TH GRADE	CREDITS
<input type="checkbox"/> Medical Terminology - S	1 cr	<input type="checkbox"/> Veterinary Assistant 1 - S	1 cr
<input type="checkbox"/> Industrial Safety and First Aid	.5 cr	<input type="checkbox"/> Veterinary Assistant 2 - S	1 cr
<input type="checkbox"/> Human Relations/Elective - SS	.5 cr	<input type="checkbox"/> Advanced Math	1 cr
<input type="checkbox"/> Algebra 2	1 cr	<input type="checkbox"/> English	1 cr
<input type="checkbox"/> English	1 cr	<input type="checkbox"/> Science	1 cr
<input type="checkbox"/> Science	1 cr	<input type="checkbox"/> U.S. Government	.5 cr
<input type="checkbox"/> U.S. History	1 cr	<input type="checkbox"/> AK History	.5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<ul style="list-style-type: none"> <input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP 	<ul style="list-style-type: none"> <input type="checkbox"/> Veterinary Technician (certification program) <input type="checkbox"/> Veterinary Medicine (DVMed) <input type="checkbox"/> Doctor of Veterinary Medicine
INDUSTRY CERTIFICATION	
<ul style="list-style-type: none"> <input type="checkbox"/> CPR/First Aid <input type="checkbox"/> Texas A&M Veterinary Assistant <input type="checkbox"/> Veterinary Technician National Exam 	
APPRENTICESHIP	MILITARY
<ul style="list-style-type: none"> <input type="checkbox"/> Private Entity 	<ul style="list-style-type: none"> <input type="checkbox"/> U.S. Armed Forces

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CAREER & TECHNICAL EDUCATION

NATURAL RESOURCES PATHWAY
AGRICULTURE, FOOD & NATURAL RESOURCES



WILDLAND FIREFIGHTING PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Introduction to Natural Resources - S
- Forestry - S
- Industrial Safety and First Aid
- Wilderness First Aid - S

TECHNICAL (11TH & 12TH)

- ETT - S
- Forest Health and Protection - S
- Wildland Firefighting - S
- Wilderness First Responder - S

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Through Algebra 2
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA

CERTIFICATION

- Microsoft Office Specialist
- Emergency Trauma Technician (ETT)
- Division of Forestry Red Card

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- ETT 3 cr
- Wildland Firefighting 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics
- AP Environmental Science

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Career Pathways .5 cr
- Introduction to Natural Resources - S .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Forestry - S .5 cr
- Industrial Safety and First Aid .5 cr
- Wilderness First Aid - S .5 cr
- Elective .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- ETT - S 1 cr
- Wilderness First Responder - S 1 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Wildland Firefighting - S 1 cr
- Forest Health and Protection - S 1 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- Incident Command (FEMA)
- Division of Forestry Red Card

APPRENTICESHIP

- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Occupational Endorsement Certificate in Wildland Fire Science
- Associate of Applied Science Fire Science
- Associate of Applied Science Fire and Emergency Technology
- Bachelor of Homeland Security and Emergency Management

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CAREER & TECHNICAL EDUCATION

NATURAL RESOURCES PATHWAY
AGRICULTURE, FOOD & NATURAL RESOURCES



PROCESS TECHNOLOGY & UTILITY OPERATION PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Industrial Safety and First Aid

TECHNICAL (11TH & 12TH)

- Intro to Occupational Safety
- Hydraulics - **S**
- Process Technology - **S**

ACADEMIC ELECTIVE CREDITS: **S** = SCIENCE **M** = MATH **LA** = LANGUAGE ARTS **SS** = SOCIAL STUDIES

ACADEMIC RIGOR

- Through Algebra 2
- Chemistry
- Physics

STUDENT ORGANIZATION (CTSO)

- Skills USA

CERTIFICATION

- Medic First Aid/CPR
- Water Safety
- OSHA 10
- Hunter Safety
- Food Handler/ServSafe
- North Slope Training Card
- NCCER - Pipeline

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Technology Applications 1, 2, 3 3 cr
- Process Technology 3 cr
- Intro to Occupational Safety, Health & Environmental Awareness 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics
- AP Environmental Science

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Career Pathways .5 cr
- Technology Applications 1 .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Intro to Auto OR Small Engines 1.5 cr
- Industrial Safety and First Aid .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- Architectural Drafting 1 - **M** .5 cr
- Surveying 1 .5 cr
- Process Technology - **S** 1 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Introduction to Occupational Safety, Health & Environmental Awareness 1 cr
- Ecological Studies 1 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- Medic First Aid/CPR
- Water Safety
- OSHA 10
- Hunter Safety
- Food Handler/ServSafe
- North Slope Training Card
- NCCER - Pipeline
- Project Management

APPRENTICESHIP

- Trade Unions
- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Associate of Science - Process Technology
- Bachelor of Science - Engineering
- Bachelor of Science - Applied Technology
- Master of Science - Engineering

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CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)	TECHNICAL (11TH & 12TH)
<ul style="list-style-type: none"> <input type="checkbox"/> Intro to Career Pathways <input type="checkbox"/> Foods & Nutrition - S <input type="checkbox"/> Introduction to Baking <input type="checkbox"/> Accounting 1 & 2 - M <input type="checkbox"/> Tourism 1 & 2 	<ul style="list-style-type: none"> <input type="checkbox"/> START <input type="checkbox"/> Marketing - SS <input type="checkbox"/> Food Science - S <input type="checkbox"/> Culinary Arts 1-4 <input type="checkbox"/> Alaska Foods and Culture - SS

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR	EARLY COLLEGE CREDIT OPTIONS	COLLEGE CREDITS
<ul style="list-style-type: none"> <input type="checkbox"/> Precalculus with Trigonometry <input type="checkbox"/> Chemistry <input type="checkbox"/> Physics 	DUAL ENROLLMENT <input type="checkbox"/> Culinary Arts	2 cr
STUDENT ORGANIZATION (CTSO) <ul style="list-style-type: none"> <input type="checkbox"/> Skills USA <input type="checkbox"/> FCCLA 	AP (WITH PASSING SCORE ON AP EXAM) <ul style="list-style-type: none"> <input type="checkbox"/> AP Biology <input type="checkbox"/> AP Chemistry <input type="checkbox"/> AP Physics 	
CERTIFICATION <ul style="list-style-type: none"> <input type="checkbox"/> ProStart <input type="checkbox"/> ServSafe 		

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<ul style="list-style-type: none"> <input type="checkbox"/> Introduction to Career Pathways <input type="checkbox"/> Foods & Nutrition - S <input type="checkbox"/> Algebra 1 <input type="checkbox"/> English 1 <input type="checkbox"/> Biology <input type="checkbox"/> Civics <input type="checkbox"/> Health <input type="checkbox"/> PE 	.5 cr .5 cr 1 cr 1 cr 1 cr .5 cr .5 cr 1 cr	<ul style="list-style-type: none"> <input type="checkbox"/> Accounting 1 - M <input type="checkbox"/> Introduction to Baking <input type="checkbox"/> Tourism 1 <input type="checkbox"/> Tourism 2 <input type="checkbox"/> Geometry <input type="checkbox"/> English 2 <input type="checkbox"/> Physical Science <input type="checkbox"/> World History 	.5 cr .5 cr .5 cr .5 cr 1 cr 1 cr 1 cr 1 cr
11TH GRADE	CREDITS	12TH GRADE	CREDITS
<ul style="list-style-type: none"> <input type="checkbox"/> START <input type="checkbox"/> Marketing - SS <input type="checkbox"/> Accounting 2 - M <input type="checkbox"/> Food Science - S <input type="checkbox"/> Culinary Arts 1 <input type="checkbox"/> Culinary Arts 2 <input type="checkbox"/> Algebra 2 <input type="checkbox"/> English <input type="checkbox"/> Science 	.5 cr .5 cr .5 cr .5 cr .5 cr .5 cr 1 cr 1 cr 1 cr	<ul style="list-style-type: none"> <input type="checkbox"/> Alaska Foods and Culture - SS <input type="checkbox"/> Culinary Arts 3 <input type="checkbox"/> Culinary Arts 4 <input type="checkbox"/> Advanced Math <input type="checkbox"/> English <input type="checkbox"/> Science <input type="checkbox"/> U.S. Government <input type="checkbox"/> AK History 	1 cr .5 cr .5 cr 1 cr 1 cr 1 cr .5 cr .5 cr

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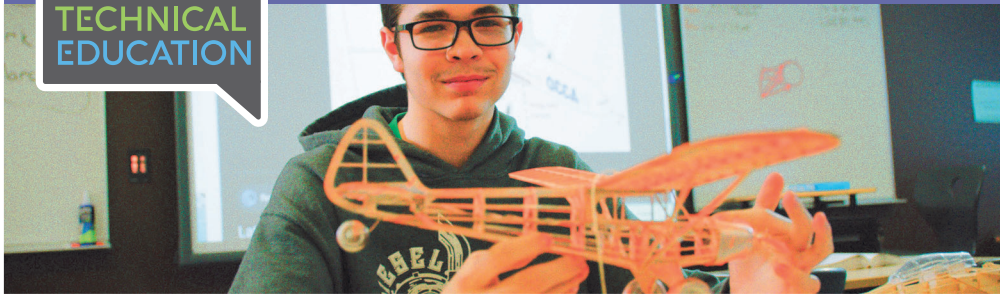
STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<ul style="list-style-type: none"> <input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP 	<ul style="list-style-type: none"> <input type="checkbox"/> Undergraduate Certificate in Culinary Arts <input type="checkbox"/> Associate of Applied Science in Culinary Arts and Hospitality <input type="checkbox"/> Bachelor of Culinary Arts
INDUSTRY CERTIFICATION	
<ul style="list-style-type: none"> <input type="checkbox"/> ProStart <input type="checkbox"/> ServSafe Manager <input type="checkbox"/> Certified Decorator 	
APPRENTICESHIP	MILITARY
<ul style="list-style-type: none"> <input type="checkbox"/> Private Entity 	<ul style="list-style-type: none"> <input type="checkbox"/> U.S. Armed Forces

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CAREER & TECHNICAL EDUCATION

TRANSPORTATION PATHWAY
TRANSPORTATION, DISTRIBUTION & LOGISTICS



AVIATION TECHNOLOGY PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Technology Applications 1
- Introduction to GIS/RS Concepts
- Principles of Technology 1 & 2

TECHNICAL (11TH & 12TH)

- Introduction to Aviation
- Principles of Technology 1 & 2
- Private Pilot Ground School
- Airframe Structures

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Chemistry
- Physics
- Precalculus with Trigonometry

STUDENT ORGANIZATION (CTSO)

- Skills USA

CERTIFICATION

- FFA Private Pilot Ground School
- OSHA 10

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Technology Applications 1, 2, 3 3 cr
- Personal Finance 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Calculus
- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE	CREDITS	10TH GRADE	CREDITS
<input type="checkbox"/> Introduction to Career Pathways	.5 cr	<input type="checkbox"/> Introduction to GIS/RS Concepts	.5 cr
<input type="checkbox"/> Technology Applications 1	.5 cr	<input type="checkbox"/> Principles of Technology 1	1 cr
<input type="checkbox"/> Algebra 1	1 cr	<input type="checkbox"/> Industrial Safety and First Aid	.5 cr
<input type="checkbox"/> English 1	1 cr	<input type="checkbox"/> Geometry	1 cr
<input type="checkbox"/> Biology	1 cr	<input type="checkbox"/> English 2	1 cr
<input type="checkbox"/> Civics	.5 cr	<input type="checkbox"/> Physical Science	1 cr
<input type="checkbox"/> Health	.5 cr	<input type="checkbox"/> World History	1 cr
<input type="checkbox"/> PE	1 cr		
11TH GRADE	CREDITS	12TH GRADE	CREDITS
<input type="checkbox"/> Principles of Technology 2	1 cr	<input type="checkbox"/> Private Pilot Ground School	1 cr
<input type="checkbox"/> Introduction to Aviation	.5 cr	<input type="checkbox"/> Airframe Structures	1 cr
<input type="checkbox"/> Personal Finance - M	.5 cr	<input type="checkbox"/> Advanced Math	1 cr
<input type="checkbox"/> Algebra 2	1 cr	<input type="checkbox"/> English	1 cr
<input type="checkbox"/> English	1 cr	<input type="checkbox"/> Science	1 cr
<input type="checkbox"/> Science	1 cr	<input type="checkbox"/> U.S. Government	.5 cr
<input type="checkbox"/> U.S. History	1 cr	<input type="checkbox"/> AK History	.5 cr

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STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL	COLLEGE
<input type="checkbox"/> Dual Enrollment <input type="checkbox"/> Academic AP	<input type="checkbox"/> Associate of Applied Science Aviation Administration <input type="checkbox"/> Associate of Applied Science in Air Traffic Control <input type="checkbox"/> Associate of Applied Science in Aviation Maintenance Technology <input type="checkbox"/> Associate of Applied Science in Professional Piloting <input type="checkbox"/> Bachelor of Science in Aviation Technology <input type="checkbox"/> Bachelor of Science in Aviation Technology
INDUSTRY CERTIFICATION	
<input type="checkbox"/> FFA Private Pilot Ground School <input type="checkbox"/> OSHA 10 <input type="checkbox"/> Private Pilot	
APPRENTICESHIP	MILITARY
<input type="checkbox"/> Private Entity	<input type="checkbox"/> U.S. Armed Forces

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CAREER & TECHNICAL EDUCATION

TRANSPORTATION PATHWAY
TRANSPORTATION, DISTRIBUTION & LOGISTICS



HYDRAULICS/FLUIDS/DIESEL PROGRAM

CTE COURSE SEQUENCE

FOUNDATIONAL (9TH & 10TH)

- Intro to Career Pathways
- Technology Applications 1
- Industrial Safety and First Aid
- Introduction to Auto
- Automotive Service Technician 1
- Small Engines 1 & 2

TECHNICAL (11TH & 12TH)

- OPET 1
- Hydraulics/Pneumatics/Diesel Power - S

ACADEMIC ELECTIVE CREDITS: S = SCIENCE M = MATH LA = LANGUAGE ARTS SS = SOCIAL STUDIES

ACADEMIC RIGOR

- Chemistry
- Physics
- Precalculus with Trigonometry

STUDENT ORGANIZATION (CTSO)

- Skills USA

CERTIFICATION

- OSHA 10

EARLY COLLEGE CREDIT OPTIONS

COLLEGE CREDITS

DUAL ENROLLMENT

- Technology Applications 1, 2, 3 3 cr

AP (WITH PASSING SCORE ON AP EXAM)

- AP Biology
- AP Chemistry
- AP Physics

MAPPING YOUR 4-YEAR PLAN*

9TH GRADE

CREDITS

- Introduction to Career Pathways .5 cr
- Technology Applications 1 .5 cr
- Algebra 1 1 cr
- English 1 1 cr
- Biology 1 cr
- Civics .5 cr
- Health .5 cr
- PE 1 cr

10TH GRADE

CREDITS

- Intro to Auto OR Small Engines 1 .5 cr
- Automotive Service Technician .5 cr
- Small Engines 2 .5 cr
- Industrial Safety and First Aid .5 cr
- Geometry 1 cr
- English 2 1 cr
- Physical Science 1 cr
- World History 1 cr

11TH GRADE

CREDITS

- OPET 1 cr
- Elective 1 cr
- Algebra 2 1 cr
- English 1 cr
- Science 1 cr
- U.S. History 1 cr

12TH GRADE

CREDITS

- Hydraulics/Pneumatics/Diesel Power - S 1 cr
- Cooperative Work Experience 1 cr
- Advanced Math 1 cr
- English 1 cr
- Science 1 cr
- U.S. Government .5 cr
- AK History .5 cr

*These are suggested courses to best prepare students for post-secondary transitions and credentialing. Actual courses may depend on school schedule availability and enrollment capacity. Some classes may be available at other locations through District-wide or course share options. Graduation requirements for number of credits and required courses are set at a district level and are subject to change. Talk to your counselor about your graduation requirements and to schedule your courses.

STACKABLE CREDENTIALS & DEGREES*

HIGH SCHOOL

- Dual Enrollment
- Academic AP

INDUSTRY CERTIFICATION

- OSHA 10
- TWIC (Transportation Worker Identification Credential)
- Certified Automation Professional
- Certified Control Systems Technician
- Private Pilot

APPRENTICESHIP

- Trade Unions
- Private Entity

MILITARY

- U.S. Armed Forces

COLLEGE

- Undergraduate Certificate in Instrumentation Technology
- Undergraduate Certificate in Diesel Power Technology
- Associate of Applied Science in Industrial Process Instrumentation
- Associate of Applied Science in Diesel Power Technology

*Listed Certifications, Apprenticeships and College Degree Programs represent a SAMPLE of available credentials. Available credentials are subject to change due to industry and postsecondary institution changes.

ACCESS & AVAILABILITY

Mat-Su Career & Tech HS

- Architectural & Technical Drafting
- Construction, Carpentry & Cabinetry
- Pre-Engineering
- Business, Accounting & Finance
- Computer Science & Robotics
- Digital Media
- Sports Medicine & Fitness
- Pre-Nursing/CNA
- Dental Assistant
- Pharmacy Technician
- Veterinary Assistant
- Teacher & Education Training
- Process Technology & Utility Operations
- Wildland Firefighting
- Culinary Arts
- Aviation
- Hydraulics/Diesel Power
- Industrial Technology

Colony HS

- Architectural & Technical Drafting
- Business & Finance
- Digital Media
- Computer Science & Robotics
- Education & Teacher Training
- Small Engines - Power Equipment

Houston Jr/Sr HS

- Business/IT/Digital Media
- Construction, Carpentry & Cabinetry
- Education & Teacher Training
- Healthcare Ed. & Emergency Trauma
- Small Engines & Welding

Burchell, Mat-Su Central & Twindley Bridge

- Access to District-Wide Career & Technical Education Courses

Palmer HS

- Agriculture & Natural Resources
- Automotive Technology
- Business & Information Technology
- Cabinetry, Carpentry & Construction
- Culinary Arts
- Education & Teacher Training
- Welding

Redington Jr/Sr High

- Education & Teacher Training
- Construction, Carpentry & Cabinetry
- Small Engines
- Welding

Su Valley Jr/Sr High

- Business & Computer Science
- Construction, Carpentry & Cabinetry
- Drafting And Global Info Systems
- Small Engines
- Welding

Wasilla High

- Architectural & Technical Drafting
- Business & Finance
- Construction, Carpentry & Cabinetry
- Automotive
- NC3 - Leadership School
- Digital Media
- Computer Science & Robotics

Valley Pathways

- Business & Technology
- Access to District-Wide Career