Career Clusters and Sub-Clusters

Caring for Communities

■ Education

Early Childhood Development
Education Administration & Leadership
Learner Support & Community
Engagement

Teaching, Training, & Facilitation

■ Healthcare & Human Services

Behavioral & Mental Health Biotechnology Research & Development Community & Social Services Health Data & Administration Personal Care Services Physical Health

■ Public Service & Safety

Emergency Response Judicial Systems Local, State, & Federal Services Military & National Security Public Safety

Building & Moving

■ Advanced Manufacturing

Engineering Industrial Machinery Production & Automation Robotics Safety & Quality Assurance

■ Construction

Architecture & Civil Engineering Construction Planning & Development Equipment Operation & Maintenance Skilled Trades

■ Supply Chain & Transportation

Air & Space Transportation Ground & Rail Transportation Maintenance & Repair Marine Transportation Planning & Logistics Purchasing & Warehousing

Cultivating Resources

Agriculture

Agribusiness Agricultural Technology & Automation Animal Systems

Food Science & Processing

Plant Systems

Water Systems

■ Energy & Natural Resources

Clean & Alternative Energy
Conservation & Land Management
Ecological Research & Development
Environmental Protection
Resource Extraction
Utilities

Creating & Experiencing

Arts, Entertainment, & Design

Design & Digital Arts Fashion & Interiors Fine Arts

Lighting & Sound Technology Media Production & Broadcasting

Performing Arts

Hospitality, Events, & Tourism

Accommodations
Conferences & Events
Culinary & Food Services
Travel & Leisure

Investing in the Future

Financial Services

Accounting
Banking & Credit
Financial Strategy & Investments
Insurance
Real Estate

Cross-Cutting Clusters

Careers that overlap in ALL industries, highlighting the versatile and interconnected nature of today's workforce.

■ Digital Technology

Data Science & AI
IT Support & Services
Network Systems & Cybersecurity
Software Solutions
Unmanned Vehicle Technology
Web & Cloud

■ Management & Entrepreneurship

Business Information Management Entrepreneurship & Small Business Leadership & Operations Project Management Regulation

■ Marketing & Sales

Marketing & Advertising
Market Research, Analytics, & Ethics
Retail & Customer Experience
Strategic Sales

Advanced Manufacturing

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	9th English I Al		Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/ Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year	Welding	
9th	Welding I	
10th	Welding II	
11th	Welding III	
12th		

Additional Electives	

Regional Postsecondary Schools					
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees				
Central Wyoming College					

2	Certificate or AA	
2	Bachelor's Degree	
	Advanced Degree	

AS Engineering	AS STEM		

Agriculture

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I Algel		Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/ Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year		
9th		
10th		
11th		
12th		

Additional Electives	
	•

Regional Postsecondary Schools						
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees					

Certificate or AA	•			
Bachelor's Degree	١			
Advanced Degree	•			

Arts, Entertainment, & Design

Regional High School Requirements and Programs

Yea	r English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year	Performing Arts	Visual Arts and Design
9th	Contemporary Music	General Art
10th	Piano I and II	Digital Media
11th	Beginning and Advanced Guitar	Photography
12th	Drumline	Pottery

Additional Electives	
	•

Regional Postsecondary Schools						
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees					
Central Wyoming College						

Postsecondary Programs / Majors for Occupations in this Career Cluster

AA Art, Artist Certificate II	AA Film, AAS Film	AA Music, AA Theater	AAS New Media, AAS Photography	2-D Art Certificate I, 3-D Art Certificate II

Construction

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year	Performing Arts	Design
9th	Woods I	
10.1	Geometry in Construction	
10th	Woods I or II	
11th	Woods I or II	CAD I
12th	Woods I or II	CAD II

Additional Electives	

Regional Postsecondary Schools					
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees				
Central Wyoming College					

2	Certificate or AA	
>	Bachelor's Degree	
	Advanced Degree	

Welding Certificate I	Welding Certificate II	AAS Welding	Electrical Certificate	

Digital Technology

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/ Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year	Computer support specialist	Web Design and Programming
9th	Computer Maintenance	Intro to Coding I
10th	Cyber security I	Intro to Coding II
11th	Intro to Networking I	Web Development I
12th	Network Security I	Web Development II

Additional Electives	

Regional Postsed	condary Schools
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees
Central Wyoming College	

Postsecondary Programs / Majors for Occupations in this Career Cluster

Computer Technology Certificate I	Computer Technology Certificate II	AAS Computer Technology, AS Computer Science	AS Software Development	AAS Software Support Specialist

Education

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year	
9th	
10th	
11th	
12th	

Additional Electives	
	•

Regional Postsecondary Schools					
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees				

Certificate or AA			
Bachelor's Degree			
Advanced Degree			

Energy & Natural Resources

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/ Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year	
9th	
10th	
11th	
12th	

Additional Electives	

Regional Postsecondary Schools						
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees					

Certificate or AA	•			
Bachelor's Degree				
Advanced Degree	•			

Financial Services

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/ Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year		Additional Electives	Regional Postse	condary Schools
9th			Certificates and Associate's Degrees	Bachelor's and Advanced Degrees
10th				
11th				
				
12th		<u> </u>		

Certificate or AA	•			
Bachelor's Degree	١			
Advanced Degree	•			

Caring for Communities

Healthcare & Human Services

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/ Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year		Ado
9th		<u> </u>
10th		
11th		<u> </u>
12th		

Additional Electives	

Regional Postsecondary Schools							
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees						

Certificate or AA			
Bachelor's Degree			
Advanced Degree			

Hospitality, Events, & Tourism

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year	Restaurant and Food Services	
9th	Family and Consumer Science I	
10th	Family and Consumer Science II	
11th	Culinary I	
12th	Culinary II	

Additional Electives	

Regional Postsecondary Schools				
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees			
Central Wyoming College	Central Wyoming College			

Postsecondary Programs / Majors for Occupations in this Career Cluster

Culinary Arts Certificate I AAS Culinary Arts	Hotel & Restaurant Certificate II	AAS Hotel & Restaurant Management	AA Outdoor Education & Leadership	AS Outdoor Recreation
BAS Organizational Management & Leadership				

Management & Entrepreneurship

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/ Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year		Ac
9th		<u> </u>
10th		
11th		<u> </u>
12th		

Additional Electives	

Regional Postsecondary Schools					
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees				

Certificate or AA			
Bachelor's Degree			
Advanced Degree			

Marketing & Sales

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year	Sales	Marketing
9th	Careers	Careers Computer Applications
10th	Marketing	Financial Literacy
11th	Entrepreneurship I	Yearbook/ Publishing I
12th	Entrepreneurship II	Yearbook/ Publishing I or II

Additional Electives	

Regional Postsecondary Schools					
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees				
Central Wyoming College	Central Wyoming College				

<u> </u>	Certificate or AA	
2	Bachelor's Degree	
>	Advanced Degree	

AS Business Administration		
BAS Organizational Management & Leadership		

Public Service & Safety

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/ Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year		
9th		
10th		
11th		
12th		

Additional Electives	

Regional Postsecondary Schools					
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees				

Certificate or AA			
Bachelor's Degree			
Advanced Degree			

Supply Chain & Transportation

Regional High School Requirements and Programs

Year	English Language Arts	Math	Science	Social Studies	Foreign Language	Physical Education	Fine Arts	Other Courses
9th	English I	Algebra I	Life Science	American Indian History/ World Geography	Arapaho or Shoshone	Physical Education	Pottery Photography Digital Media	CTE Family and cons. Welding I-III
10th	English II	Geometry or Geometry in Construction	Physical Science	World History	Arapaho or Shoshone	Advanced PE	Art I - IV Piano I Beginning Guitar	Culinary I Woods I-IV Geometry in
11th	English III	Algebra II, Statistics and	Chemistry, Environmental Science	American History/ Tribal Government	Arapaho or Shoshone	Advanced PE	Contemporary Music Piano II	Marketing Financial Literacy Yearbook
12th	English IV or College English	Pre - Calculus/ Trigonometry	Physics	US/ WY Government	Arapaho or Shoshone	Advanced PE	Drumline Advanced Guitar	Computer apps Entrepen I-II Auto I-II

Year	Automotive Engineering Technology	
9th	Auto I	
10th	Auto II	
11th	Auto III	
12th		

Additional Electives	

Regional Postsecondary Schools				
Certificates and Associate's Degrees	Bachelor's and Advanced Degrees			
Central Wyoming College	Central Wyoming College			

Postsecondary Programs / Majors for Occupations in this Career Cluster

Auto Technology Certificate I	Auto Technology Certificate II	AAS Automotive Technology	AAS Business Management	AA Business
BAS Organizational Management & Leadership				