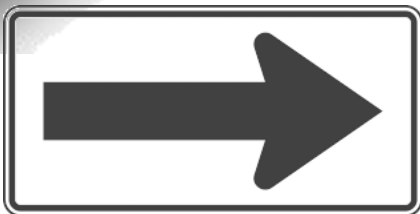
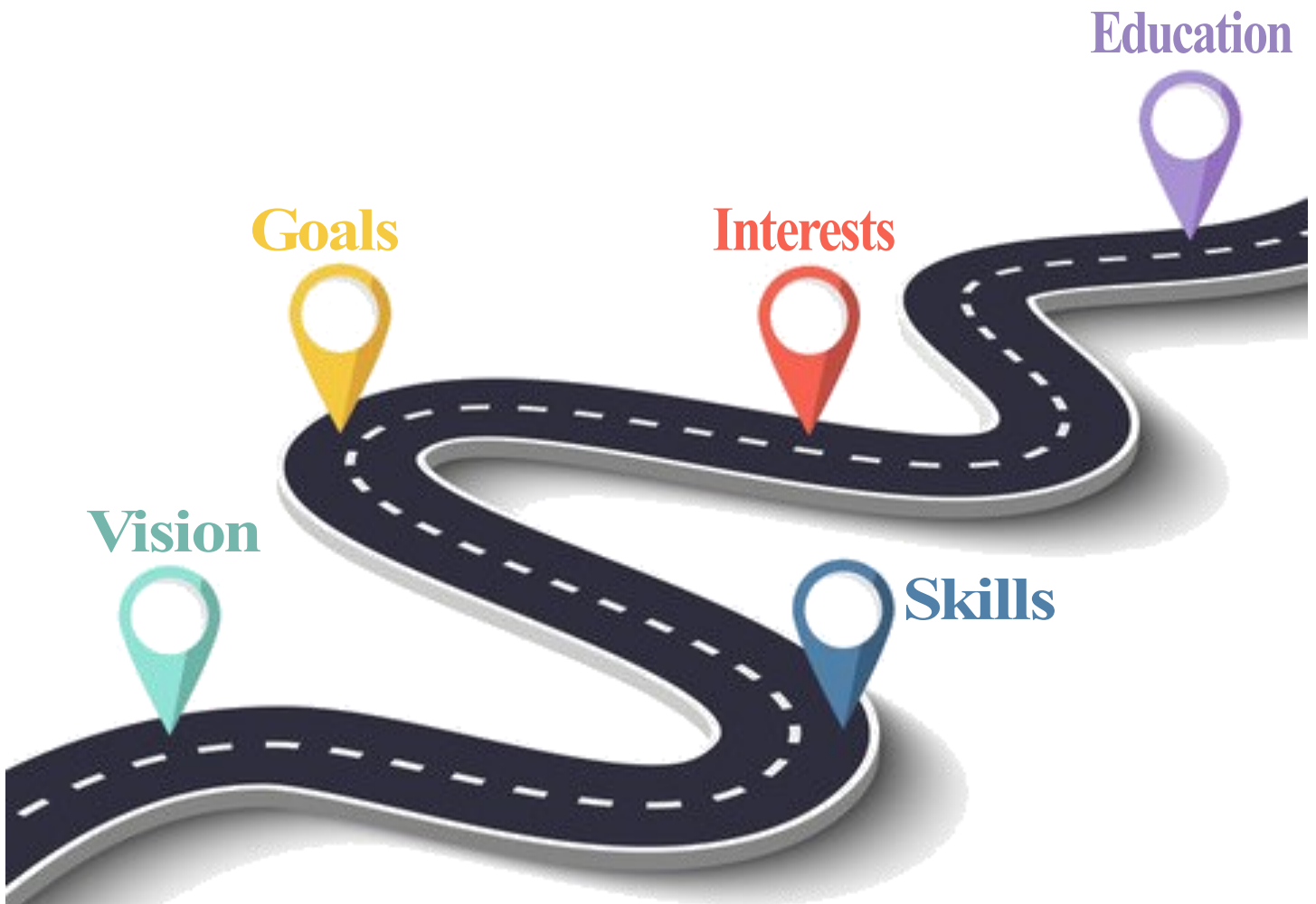




# Roswell High School



## Career Pathway Guide



# Career Opportunities

# RISD Graduation Requirements

**\*\*\*28 Credits Required to Graduate\*\*\***

CLASS	YEAR	CLASS	YEAR
<b>ENGLISH (4 CREDITS)</b>		<b>OTHER REQUIREMENTS (3 CREDITS)</b>	
English 09 A	/	PE I A	/
English 09 B	/	PE I B	/
English 10 A	/	Career Cluster/Foreign Language	/
English 10 B	/	Career Cluster/Foreign Language	/
English 11 A	/	Health	1.2 /
English 11 B	/	N.M. History	1.2 /
English 12 A	/	<b>ELECTIVES (11 CREDITS REQUIRED)</b>	
English 12B	/		0.5 1.2 /
<b>SOCIAL STUDIES (3 CREDITS)</b>			1.0 1.2 /
World History A	/		1.5 1.2 /
World History B	/		2.0 1.2 /
US History A	/		2.5 1.2 /
US History B	/		3.0 1.2 /
US Government	1.2 /		3.5 1.2 /
Economics	1.2 /		4.0 1.2 /
<b>MATH (4 CREDITS)</b>			4.5 1.2 /
Algebra I A	/		5.0 1.2 /
Algebra I B	/		5.5 1.2 /
Geometry A	/		6.0 1.2 /
Geometry B	/		6.5 1.2 /
Algebra II A	/		7.0 1.2 /
Algebra II B	/		7.5 1.2 /
*4th Math	/		8.0 1.2 /
*4th Math	/		8.5 1.2 /
<b>SCIENCE (3 CREDITS)</b>			9.0 1.2 /
Biology A	/		9.5 1.2 /
Biology B	/		10.0 1.2 /
Chemistry A	/		10.5 1.2 /
Chemistry B	/		11.0 1.2 /
Physics A	/		11.5 1.2 /
Physics B	/		12.0 1.2 /
<b>POST-GRAD PLAN/COLLEGE:</b>			12.5 1.2 /
			13.0 1.2 /
			13.5 1.2 /
			14.0 1.2 /

Total Credits Earned: \_\_\_\_\_

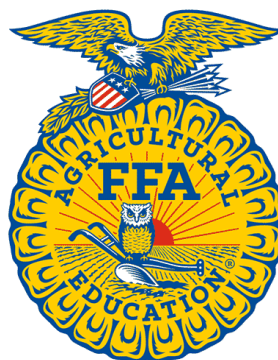
# CAREER CLUSTERS

Career *clusters* is a classification system that groups occupations into sixteen different clusters based on similarities in foundational knowledge and skills needed to achieve success. These clusters are then broken down into career *pathways*. Four classes is the typical structure of a *program of study* sequence in order to completely master all the common career technical core standards of the pathway. For Perkins V students who complete two classes in a sequence are considered a concentrator, and *concentrators* who also take a capstone course are *completers*.

Career *pathways* focus on smaller subsets of related occupations within a career *cluster*. They connect to educational programs, industries, and careers. Pathways help students focus on and develop a clear, more informed educational plan over time. Courses and training programs are typically outlined in career pathways that can guide students as they develop and maintain progress toward career goals.

There are 16 Career Clusters and 77 related Career Pathways, which provide in-depth information about occupations in the same field of work that requires similar skills.

Within each Career Cluster students have the opportunity to join a  
**Career Technical Student Organization**





### **Agriculture, Food & Natural Resources**

*Agribusiness Systems  
Natural Resources  
Animal Systems  
Plant Systems  
Power, Structural & Technical Systems  
Environmental Service Systems  
Food Products & Processing Systems*



### **Hospitality & Tourism**

*Lodging  
Recreation, Amusements & Attractions  
Restaurants & Food/Beverage Services  
Travel & Tourism*



### **Architecture & Construction**

*Construction  
Design/Pre-Construction  
Maintenance/Operations*



### **Human Services**

*Consumer Services  
Counseling & Mental Health Services  
Early Childhood Development & Services  
Family & Community Services  
Personal Care Services*



### **Arts, Audio/Video Technology & Communication**

*Audio & Video Technology & Film  
Journalism & Broadcasting  
Performing Arts  
Printing Technology  
Telecommunications  
Visual Arts*



### **Information Technology**

*Information Support & Services  
Interactive Media  
Network Systems  
Programming & Software Development*



### **Business, Management & Administration**

*Administrative & Information Support  
Business Analysis  
Business Financial Management & Accounting  
Human Resources  
Management  
Marketing*



### **Law, Public Safety, Corrections & Security**

*Correction Services  
Emergency & Fire Management Services  
Law Enforcement Services  
Legal Services  
Security & Protective Services*



### **Education & Training**

*Administration & Administrative Support  
Professional Support Services  
Teaching/Training*



### **Manufacturing**

*Maintenance, Installation & Repair  
Manufacturing Production Process Development  
Production  
Quality Assurance*



### **Finance**

*Banking & Related Services  
Business Financial Management  
Financial & Investment Planning  
Insurance Services*



### **Marketing, Sales & Service**

*Buying & Merchandising  
E-Marketing  
Management & Entrepreneurship  
Marketing Communications & Promotion  
Marketing Information Management & Research  
Professional Sales & Marketing*



### **Government & Public Administration**

*Governance  
National Security  
Planning  
Public Management & Administration  
Regulation  
Revenue & Taxation*



### **Science, Technology, Engineering & Mathematics**

*Engineering & Technology  
Science & Math*



### **Health Science**

*Biotechnology Research & Development  
Diagnostic Services  
Health Informatics  
Support Services  
Therapeutic Services*



### **Transportation, Distribution & Logistics**

*Facility & Mobile Equipment Maintenance  
Health, Safety & Environmental Management  
Logistics Planning & Management Services  
Sales & Service  
Transportation Operations  
Transportation Systems/Infrastructure Planning  
Warehousing & Distribution Center Operations*

# Roswell High Career Pathways

Roswell High currently offers 11 Career Pathways with opportunities of Dual Credit classes and certifications.

**Animal  
Science**

**STEM**

**Automotive  
Technology**

**Business  
Management**

**Health Science  
Fundamentals**

**Informatics**

**Mixed  
Construction Trades**

Power, Structural & Technical Systems  
**Welding**

**Culinary &  
Restaurant Management**

**Plant & Biotechnology  
Systems**

**Mass Communication**

# Animal Science



## CAREER PATHWAY PLAN



	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Intro to the Science of Agriculture
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Science of Large Ag Animal
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Agriculture Dual Credit

**Dual Credit Courses:** *AG 101 Animal Science*  
*SPAN 1110 Spanish I*  
*COMM 2120 Interpersonal Communication*  
*ENTR 1110 Entrepreneurship*



**CLUSTER -** Agriculture, Food & Natural Resources

**PATHWAYS -** Farming, Fishing & Forestry, Healthcare Practitioners & Technicians, Healthcare Support, Life Physical & Social Science, Personal Care & Service, and Sales & Sales Related

**Possible Careers -** *First-Line Supervisors of Farming, Fishing & Forestry Workers, Precision Agricultural & Food Science Technicians, Zoologist & Wildlife Biologist, Animal Trainers and First-Line Supervisors of Retail Sales Workers*

**Certification -** *Precision*

**New Mexico Entry Annual Wage**

\$30,980



**New Mexico Median Annual Wage**

\$53,860

# STEM



## CAREER PATHWAY PLAN



	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Aerospace Engineering
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Advanced Aerospace Technology
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Technology Education (Dual Credit)

**Dual Credit Courses:** ENGR 101 Intro to Engineering  
 ENGR 111 Technical Drawing  
 ENG 135 Intro to GIS  
 ENTR 1110 Entrepreneurship



**CLUSTER -** Science, Technology, Engineering & Mathematics

**PATHWAYS -** Engineering & Technology

**Possible Careers -** Aerospace Engineers & Operation Technician

**New Mexico Entry Annual Wage**  
\$75,660



**New Mexico Median Annual Wage**  
\$120,380

# Automotive Technology



## CAREER PATHWAY PLAN



	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Automotive Technology I
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Automotive Technology II / Dual Credit
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Transportation Tech Internship

**Dual Credit Courses:** *AT 112 Automotive Brakes*  
*AT 114 Electrical Systems I*  
*AT 118 Wheel Alignment & Suspension*  
*AT 132 Engine Performance I*



**CLUSTER -** Transportation, Distribution & Logistics

**PATHWAYS -** Transportation Operations, Facility & Mobile Equipment Maintenance

**Possible Careers -** *Automotive Service Technicians and Mechanics, Bus and Truck Mechanics & Diesel Engine Specialists, Light Truck or Delivery Services Driver, Heavy and Tractor-Trailer Truck Drivers*

**Certification -** *ASE Brakes*

**New Mexico Entry Annual Wage**  
\$23,080



**New Mexico Median Annual Wage**  
\$55,350



# Business Management



## CAREER PATHWAY PLAN



	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Introductory Business
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Business Management
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Business Work Experience

**Dual Credit Courses:** *BUSA 1110 Introduction to Business*  
*BCIS 1115 Introduction to Computers*  
*ENTR 1110 Entrepreneurship*  
*MATH 1130 Survey of Mathematics*



**CLUSTER -** Business Management & Administration

**PATHWAYS -** General Management, Administrative Support, Business Information Management

**Possible Careers -** *Entrepreneur/ Marketing Director Financial Manager, Bookkeeping and General & Operations Manager*

**Certification -** *Precision*

**New Mexico Entry Annual Wage**  
\$44,570



**New Mexico Median Annual Wage**  
\$80,870

# Health Science Fundamentals



## CAREER PATHWAY PLAN



	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Health Care Occupations
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Medical Anatomy & Physiology / Honors Anatomy & Physiology
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Health Care Sciences Co-Op

\*\*\*See your counselor for Dual Credit Opportunities\*\*\*



- \* Emergency Medical Services
- \* Nursing
- \* Occupational Therapy Assistant

- \* Medical Assisting
- \* Nursing Assistant
- \* Phlebotomy

- \* Medical Scribe
- \* Paramedic
- \* Respiratory Therapy

**CLUSTER -** Health Science

**PATHWAYS -** Support Services, Therapeutic Services, Health Informatics, Diagnostic Services and Biotechnology Research & Development

**Possible Careers -** *Health Care Practitioner & Technicians, Paramedic, Physical Therapist, Nursing, Medical Assistant and Occupational Therapist*

**Certification -** *CPR & First Aid*

**New Mexico Entry Annual Wage**  
\$35, 850



**New Mexico Median Annual Wage**  
\$208,000

# Informatics



## CAREER PATHWAY PLAN



	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Advanced Career Computers, Networks, & Databases
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Advanced Career Design for the Digital World
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Advanced Career Databases in the Cloud

**CLUSTER** - Information Technology

**PATHWAYS** - Network Systems, Information Support & Services and Programming & Software Development

**Possible Careers** - *Software Developer, Computer Programmer, Information Security Analyst, Database Administrator, Computer & Information Systems Manager*

**New Mexico Entry Annual Wage**  
\$34,590



**New Mexico Median Annual Wage**  
\$96,960

# Mixed Construction Trades



## CAREER PATHWAY PLAN




	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Construction
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Plumbing / HVAC 1
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Construction Trades Internship

**CLUSTER** - Construction

**PATHWAYS** - Construction Laborers, Installation, Maintenance & Repair

**Possible Careers** - *Plumber, Farmer, Mason, Dry Wall, Painter, and Finish Work*

**Certification** - *Precision, OSHA 10*

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**New Mexico Entry Annual Wage**  **New Mexico Median Annual Wage**  
 \$34,990  \$61,810

# Power, Structural & Technical Systems --Welding--



## CAREER PATHWAY PLAN



	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Intro to the Science of Agriculture
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Ag Power & Machinery
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Agriculture Dual Credit

**Dual Credit Courses:** *WELD 110 Introduction to Welding*

*WELD 115 Print Reading*

*WELD 125 Gas Metal Arc 1*

*WELD 131 Shielded Metal Arc 1*



**CLUSTER -** Agriculture, Food & Natural Resources

**PATHWAYS -** Power, Structural, & Technical Systems

**Possible Careers -** *Farm Equipment Mechanics & Service Technicians, Mobile Heavy Equipment Mechanics, Aircraft Mechanics & Service Technicians*

**Certification -** *Precision, OSHA 10*

**New Mexico Entry Annual Wage**

\$33,860



**New Mexico Median Annual Wage**

\$66,440

# Culinary & Restaurant Management



## CAREER PATHWAY PLAN



	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Pro Start 1
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Pro Start II
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Pro Start Internship

**CLUSTER** - Hospitality & Tourism

**PATHWAYS** - Restaurants & Food/Beverage Services

**Possible Careers** - *Executive Chef, Pastry Chef, Food and Beverage Manager, Catering Manager, Food and Nutrition Director, Food Scientist*

**Certification** - *Precision*

**New Mexico Entry Annual Wage**  
\$24,980



**New Mexico Median Annual Wage**  
\$73,450

# Plant & Biotechnology Systems

## CAREER PATHWAY PLAN

	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Intro to the Science of Agriculture
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		Greenhouse/ Nursery
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			Agriculture Dual Credit

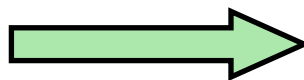
**CLUSTER** - Agriculture, Food & Natural Resources

**PATHWAYS** - Plant Science

**Possible Careers** - *Farmer, Nursery, Horticulture Specialist*

**Certification** - *Precision*

**New Mexico Entry Annual Wage**  
\$21,840



**New Mexico Median Annual Wage**  
\$73,060

# Mass Communications

## CAREER PATHWAY PLAN

	English	Math	Social Studies	Science	PE/Health	Career Pathway
9 <sup>th</sup> Grade	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
10 <sup>th</sup> Grade	English 10	Geometry or Algebra II	World History & Geography	Chemistry	X	Mass Media Produc- tion
11 <sup>th</sup> Grade	English 11	Algebra II or 4th Math	US History	Physics	X	Mass Media Com- munication
12 <sup>th</sup> Grade	English 12	4th Math	US Government and Economics	X	X	Work Experience

**CLUSTER** - Arts, A/V Technology & Communications

**PATHWAYS** - Mass Communications

**Possible Careers** - *Marketing Coordinator, Graphic Designer, Content Writer, Journalist, Public Relations Account Manager, Anchor, Announcer, Broadcast Engineer, Media Relations.*

**Certification** - *Precision*

New Mexico Entry Annual Wage  
\$42,119



New Mexico Median Annual Wage  
\$59,660








# College Readiness Pathway

	English	Math	Social Studies	Science	PE/Health	Career Pathway
<b>9<sup>th</sup> Grade</b>	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	AVID 9
<b>10<sup>th</sup> Grade</b>	English 10	Geometry or Algebra II	World History & Geography	Chemistry		AVID 10
<b>11<sup>th</sup> Grade</b>	English 11	Algebra II or 4th Math	US History	Physics		AVID 11
<b>12<sup>th</sup> Grade</b>	English 12	4th Math	US Government and Economics			AVID 12

Students on a College Readiness Pathway also have the opportunity to take Dual Credit classes through ENMUR. They will need to see their counselor for guidance on what classes they should take.

Some colleges and universities require either 1 year or 2 years of a foreign language. Below are common universities students choose to attend and the foreign language requirement for each of them.

-  **UNM** - 2 units of Foreign Language required
-  **NMSU** - Foreign language recommended
-  **Texas Tech** - 2 units of Foreign Language required
-  **ENMU** - Foreign Language recommended
-  **ENMUR** - No Foreign Language required

# General Studies Pathway

<b>9<sup>th</sup> Grade</b>	<b>English</b>	<b>Math</b>	<b>Social Studies</b>	<b>Science</b>	<b>PE/Health</b>	<b>Career Pathway</b>
	English 9	Algebra I or Geometry	New Mexico History	Biology	PE and Health	Intro to Career Readiness
<b>10<sup>th</sup> Grade</b>	<b>English</b>	<b>Math</b>	<b>Social Studies</b>	<b>Science</b>	<b>PE/Health</b>	<b>Career Pathway</b>
	English 10	Geometry or Algebra II	World History & Geography	Chemistry		Spanish 1 or German 1
<b>11<sup>th</sup> Grade</b>	<b>English</b>	<b>Math</b>	<b>Social Studies</b>	<b>Science</b>	<b>PE/Health</b>	<b>Career Pathway</b>
	English 11	Algebra II or 4th Math	US History	Physics		Spanish II or German II
<b>12<sup>th</sup> Grade</b>	<b>English</b>	<b>Math</b>	<b>Social Studies</b>	<b>Science</b>	<b>PE/Health</b>	<b>Career Pathway</b>
	English 12	4th Math	US Government and Economics			4th Science or Universal Elective

Students on a General Studies Pathway also have the opportunity to take Dual Credit classes through ENMUR. They will need to see their counselor for guidance on what classes they should take.