

**Oklahoma Career Pathways**

## Oklahoma State Department of Education

**Oklahoma**

**Career Pathways**

##

## **Introduction**

The purpose of the Oklahoma Career Pathways Guide is to provide counselors with guidance to integrate ICAP requirements and the academic advising process. Career Pathways provide a framework for schools to showcase course offerings that align with students’ desired career field. By integrating ICAP into the academic advising process counselors will be able to efficiently and purposefully build a sequence of courses to guide students through their high school career and to post-secondary success. This guide should serve as a tool to support ICAP and academic advising systems currently in place.

## **How to use this document**

Career Pathways highlight the course offerings a district offers that align with a student’s chosen career. These Pathways should be customized to integrate state and local graduation requirements as well as locally offered courses through the high school and partners, such as the local Tech Center and Concurrent Enrollment.

To help schools build out these resources, the Oklahoma State Department of Education has developed example Career Pathways, a Course Catalog of the current subject codes and course descriptions, and a Course Matrix to help stakeholders better understand how the courses available to them align with each of the National Career Pathways.

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| --- | --- |
| Section Title  | Description |
| Oklahoma Career Pathways | A template to help schools build career pathways that they are able to offer their students. The provided career pathway examples are intended to be revised by schools to reflect their course offerings.  |
| Oklahoma Course Catalog | A listing of the approved Oklahoma high school subject codes and course descriptions.  |
| Course Matrix  | A high school course correlation table. The purpose of the table is to support the identification of courses for specific career pathways. |

## **1-2-4 PlanningForYourCareer flyer.pdf - cluster page.pdf.pdf - Adobe Acrobat Reader (32-bit)**Agriculture, Food, and Natural Resources Pathway

**Career Field:** Environmental and Agricultural Systems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Fine Art | AP Environ. Science |
| Intro to Agriscience | Intro toHorticulture | Greenhouse Production & Floral Design | AgricultureCommunications |
| Intro toAnimal Science | Intro toAg Power | Ag Power & Technology | Ag Structures |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

|  |
| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Landscape Architect
* Floral Designer
* Veterinarian
 | * Welder
* Ag Business
 |

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

## Icon  Description automatically generatedHealth Science Pathway

**Career Field:** Health Science

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science or Anatomy and Physiology | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer |  Technology Center Programsuch as Nursing, Biotechnology, Radiology, orPhysical Therapy Assistant |
| Fine Art | Athletic Training |
| Health |  |

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| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Nursing
* Ultrasound Technician
* Physician (general, surgeon, etc.)
 | * Laboratory Technician
* Phlebotomists
* Pharmacist
 |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

## Icon  Description automatically generatedArts, A/V Technology, and Communications Pathway

**Career Field:** Communication and Information Systems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Creative Writing | Photography |
| Journalism, Yearbook | Multimedia & Video Design | Desktop Publishing & Graphic Design |  |
| Drama, Acting | Yearbook | 2D Art, 3D Art |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

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| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Videographer
* Writer
* Producer, Director
 | * Journalism
* Set Designer
* Sound Engineer
 |

## Icon  Description automatically generatedInformation Technology Pathway

**Career Field:** Communication and Information Systems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Technology Center Programsuch as Computer Repair, Cybersecurity, Multimedia Design |
| Fine Art | Computer Science |
|  |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

|  |
| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Computer Engineer
* Game Developer
 | * Network Security Analyst
* Programmer
 |

## Icon  Description automatically generatedManufacturing Pathway

**Career Field:** Industrial, Manufacturing and Engineering Systems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Technology Center Programsuch as Machine Operator, Drafting, or Welding |
| Intro to Agriscience | Ag Power |
| Fine Art |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

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| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Chemical Equipment Operator
* Wind Turbine Service Technician
 | * Machinist
* Installation, Maintenance and Repair Worker
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## Icon  Description automatically generatedTransportation, Distribution, and Logistics Pathway

**Career Field:** Industrial, Manufacturing and Engineering Systems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Technology Center Programsuch as Automotive Service Tech, Light Diesel Service Techor Medium/Heavy DieselService Tech, or Aviation |
| Fine Art |  |
|  |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

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| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Aircraft Engine Specialist
* Industrial Equipment Mechanics
 | * Facility Maintenance Manager
* Automotive Technician
 |

## Icon  Description automatically generatedScience, Technology, Engineering & Mathematics Pathway

**Career Field:** Industrial, Manufacturing and Engineering Systems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Fine Art |  |
| Pre-Engineering | Advanced Mathematics Courses | Advanced Science Courses |  |
|  |  |  |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

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| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Aerospace Engineer
* Biomedical Engineer
* Civil Engineer
* Mechanical Engineer
* Agricultural Engineer
* Chemical Engineer
 | * Microbiologist
* Geoscientist
* Archaeologist
* Mathematician
* Statistician
 |

## Icon  Description automatically generatedArchitecture and Construction Pathway

**Career Field:** Industrial, Manufacturing and Engineering Systems

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Technology Center Programsuch as Carpentry, HVAC,Pre-Engineering, orComputer Aided Drafting and Design |
| Intro to Engineering Design | Principles of Engineering |
| Fine Art |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

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| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Architect
* Construction Engineer
* Contractor
 | * Forklift Operator
* Safety Director
* HVAC
 |

## Icon  Description automatically generatedMarketing Pathway

**Career Field:** Business, Marketing and Management

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Fine Art | Digital Media Production |
| Marketing Fundamentals | Accounting | Journalism | Yearbook |
| Psychology | Sociology |  |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

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| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Public Relations
* Advertising and Promotions Manager
 | * Real Estate Broker
* Social Media Marketing
 |

## Icon  Description automatically generatedFinance Pathway

**Career Field:** Business, Marketing and Management

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Fine Art | Statistics |
| Business Law | Marketing Fundamentals | Accounting | Economics |
| Math of Finance | Psychology |  |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

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| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Banking Services
* Loan Officer
* Insurance
 | * Accounting
* Payroll Clerk
 |

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

## Icon  Description automatically generatedBusiness Management and Administration Pathway

**Career Field:** Business, Marketing and Management

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Fine Art |  |
| Business Law | Marketing Fundamentals | Accounting | Speech & Debate |
|  |  |  |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

|  |
| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Administrative Assistant
* Human Resources
 | * Office Manager
* Sales Representative
 |

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

## Icon  Description automatically generatedHospitality and Tourism Pathway

**Career Field:** Business, Marketing and Management

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Technology Center Programsuch as Culinary Arts, Event Planning, or Restaurant and Lodging Management |
| Intro to FACS | Food & Nutrition |
| Fine Art |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

|  |
| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Chef, Baker, Caterer
* Restaurant Owner, Manager
 | * Hotel/Resort Manager
* Event Planner
 |

## Icon  Description automatically generatedHuman Services Pathway

**Career Field:** Human Services and Resources

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Technology Center Programsuch as Cosmetology, Personal Training |
| Intro to FACS | Marriage and Family Life |
| Psychology | Fine Art |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

|  |
| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Social Worker
* Counselor, Therapist
* Esthetician
 | * Hair Stylist
* Personal Trainer
 |

## Icon  Description automatically generatedLaw, Public Safety, Corrections, and Security Pathway

**Career Field:** Human Services and Resources

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Fine Art |  |
| Business Law | Sociology | Criminology | Forensic Science |
|  |  |  |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

|  |
| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Court Reporter
* Sheriff
* Security Guard
* Correctional Officer
 | * Police Officer/Detective
* Firefighter
* Paramedic
 |

## Icon  Description automatically generatedGovernment and Public Administration Pathway

**Career Field:** Human Services and Resources

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Fine Art | Speech & Debate |
| Business Law | AP Human Geography | AP European History | Sociology |
| Psychology |  |  |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instances.*

|  |
| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Legislator
* Political Scientist
 | * Reporter & Correspondent
* Emergency Management Director
 |

## *Icon  Description automatically generated*Education and Training Pathway

**Career Field:** Human Services and Resources

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Fine Art |  |
| FACS Basics | Parenting & Child Development | Surviving & Thriving |  |
| Psychology | Sociology |  |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

|  |
| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Child Care Director, Nanny
* Early Education Teacher
* High School Teacher
 | * College Faculty, Professor
* School Counselor
 |

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instance*

## Energy Pathway

**Career Field:** Energy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | Freshman Year | Sophomore Year | Junior Year | Senior Year |
| English Language Arts Courses | English I | English II | English III | English IV |
| Mathematics Courses | Algebra I | Geometry | Algebra II | Additional Advanced Mathor Elective |
| Science Courses | Biology I | Physical Science, Chemistry,or Physics | Lab Science | Additional Lab Scienceor Elective |
| Social Studies Courses | OK History | World History | US History | US Government |
| Additional Required CoursesAndElective Options | World Language or Computer | World Language or Computer | Technology Center Programsuch as Lineman Training |
| Pre-Engineering |  |
| Fine Art |  |

*Personal Financial Literacy (PFL) and CPR Training must be completed prior to graduation.*

|  |
| --- |
| **Career-Related Work-based Learning Activities:** |
| * Project-based Learning through Technology Center Program
* Job Shadow, Internship, or Apprenticeship within Related Career Field
 |
| **Related Careers and College Majors:** |
| * Industrial Production
* Biofuels Production
* Engineering
* Technicians
 | * Geothermal Production
* Electrical Power-Line Installers and Repairers
* Power Plant Operator
 |

*Honors, AP, and Concurrent Courses are available in place of on-level core courses in many instance*