**Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Grade: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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| **This program of study can serve as a guide along with other career planning materials as learners continue on a career path. Courses listed within this program are only recommended coursework and should be individualized to meet each learner’s education and career goals.** |
|  | **El Reno High School****091034050** | **23 Units or sets of competencies are required to meet state graduation requirements.** 4 English, 3 Math, 3 Laboratory Science, 3 History/S.S., 2 Foreign Language or 2 Computer Science, 1 Additional Unit, 1 Fine Arts or Speech, 6 Electives, and Personal Financial Literacy Requirement & CPR/AED Requirement. Courses with \* are required.  |
| **High School** | **9th Grade** | **10th Grade** | **11th Grade** | **12th Grade** |
| English/Language Arts I\* | English/Language Arts II\* | English/Language Arts III\* | English/Language Arts IV\* |
| Algebra I\* | Geometry I\*  | Algebra II\* | Elective or Math Elective\* |
| Physical Science\* | Biology I\* | Chemistry\* | Elective or Science Elective |
| Oklahoma History\* (.5 Sem.) | U.S. History\* | World History\* | U.S. Government\* (.5 Sem.) |
| Foreign Language I\* or Computer Technology I\* | Foreign Language II\* or Computer Technology II\* | Canadian Valley Technology Center | Full-Time Program  | Canadian Valley Technology Center | Full-Time Program  |
| Fine Arts or Speech\* | Elective or Social Studies Elective | Canadian Valley Technology Center | Full-Time Program  | Canadian Valley Technology Center | Full-Time Program  |
| Elective | Elective | Canadian Valley Technology Center | Full-Time Program  | Canadian Valley Technology Center | Full-Time Program  |
| **Note:*** For **College Prep** **& Work Ready** or **Core Curriculum** requirements go to: [www.sde.ok.gov](http://www.sde.ok.gov) and search for *High School Graduation Requirements*.
* For **Oklahoma’s Promise** requirements go to: [www.okhighered.org/okpromise/](http://www.okhighered.org/okpromise/)
* For **NCAA** requirements go to: [www.ncaa.org](http://www.ncaa.org)
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| **El Reno High School – Elective Courses Offer** |
| **Math:*** Trigonometry
* Pre-Calculus AP
* Calculus or Calculus AP
* Statistics or Statistics AP

**Science:*** Environmental Science AP
* Physics or Pre-AP Physics or AP Physics
* Pre-AP Chemistry or AP Chemistry

**History/Social Studies:*** Holocaust Studies
* Military History
* U.S. History Pre-AP or AP
* World Geography

**Foreign Language:*** German 1
* German 2
* Spanish 1
* Spanish 2

**Computers:*** Advanced Computer Apps
* Business Computer Applications
* Digital Computer Literacy
* Fundamentals of Technology
* Microsoft Office
 | **Fine Arts:*** 3D Sculpture Art
* Advanced Piano
* Advanced Theater
* Art 1
* Art 2
* Art History
* Beginning Band
* Film as Literature
* Fundamentals of Music
* Girls Vocal
* Honors Vocal Music
* Instrumental Music
* Intro to Theater
* Music Appreciation
* Music Theory
* Studio Art AP
* Technical Theater
* Vocal Music 1

**Family and Consumer Science:*** Adult & Family Living
* Careers
* Child Development
* Clothing
* Foods 1
* Foods 2
* Marriage and Family Life
 | **Agriculture Education:*** Ag Communications
* Ag Economics
* Ag Employment
* Ag Power & Technology
* Ag Leadership
* Agriscience 1
* Agriscience 2
* Equine 1
* Equine 2
* Horticulture
* Plant Science
* Wildlife
* Wildlife Management

 **PE and Athletics:*** Football
* Softball
* Volleyball
* Baseball
* Golf (after school)
* Girls Weightlifting
* Boys Weightlifting
* Tennis
* Girls Basketball
* Boys Basketball
* Wrestling
* Cross Country
* Girls Soccer
* Boys Soccer
 | **Redlands Community College:*** Adolescent Psychology
* Algebra
* Anatomy w/ Lab
* Art Appreciation
* Biology
* Business App Software
* Calculus
* Chemistry
* Earth Science
* Economics
* English Comp. I
* English Comp. II
* Farm & Ranch Management
* Financial Accounting
* Government
* Humanities
* Intro to Criminal Justice
* Lifetime Fitness/Management
* Medical Terminology
* Music Appreciation
* Psychology
* Sociology
* Spanish
* Speech
* Statistics
* Trigonometry
* US History
* Western Civilization sn 1500
* Philosophy
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|  For CV Tech Program Details, visit: [https://cvtech.edu](https://cvtech.edu/class-offerings?type=full) |
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| **Architecture & Construction****Career Cluster** |
| **CV Tech Programs:** | **Recommended Elective Courses:** |
| * **Computer Aided Drafting & Design (CADD)**
* **Construction Trades**
* **Electrical Trades**
* **Heating, Ventilation, Air Conditioning, & Refrigeration (HVACR)**
 | **Math:*** Trigonometry
* Pre-Calculus AP
* Calculus or Calculus AP
* Statistics or Statistics AP

**Science:*** Physics

**Agriculture:*** Ag Power & Technology
 | **Computers:*** Business Computer Applications
* Fundamentals of Technology
* Digital Computer Literacy

**Fine Arts:*** Art 1
* Art 2
 |
| **Sample Occupation Pathways:** |
| **Design/Pre-Construction Pathway** | **Construction Pathway** | **Maintenance & Operations Pathway** |
| * Architect
* Civil Engineers
* Cost Estimator
* Drafter
 | * Interior Designer
* Mapping Technicians
* Surveyor
* Surveying Technicians
 | * Carpenter
* Construction Manager
* Electrician
* Explosives Workers
 | * HVACR Technician
* Pipe Fitter
* Plumber
* Sheet Metal Worker
 | * Building Maintenance
* Boilermakers
* Carpenter
* Commercial Divers
 | * Demolition Engineer
* Hazardous Materials Remover
* Heating System Tech
* Millwright
 |
| **Sample Architecture & Construction Cluster Salaries**Wage information comes from the Bureau of Labor Statistics, [Occupational Employment Statistics Program](https://www.bls.gov/ooh/) |
| * Architect - $52,910 - $126,550
* Civil Engineer - $52,940 - $132,560
* Cost Estimator - $34,800 - $99,440
* Drafter - $32,360 - $80,260
* Interior Designer - $19,090 - $73,960
* Mapping Technicians, Surveyor, and Surveying Technicians - $25,770 - $74,390
 | * Carpenter - $27,560 - $61,390
* Construction Manager - $41,480 - $145,030
* Electricians - $30,340 - $78,760
* Pipe Fitter - $28,030 - $77,960
* Explosives Workers - $31,550 - $56,200
* HVACR Technician - $27,450 - $64,810
* Pipe Fitters and Plumbers - $28,030 - $77,960
* Sheet Metal Worker - $29,040 - $64,270
 | * Building Maintenance - $21,810 - $62,520
* Boilermaker - $29,780 - $89,730
* Carpenter - $27,560 - $61,390
* Commercial Divers - $30,810 - $108,170
* Millwright - $31,690 - $71, 990
 |

**Additional Related Post-Secondary Opportunities**

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| --- | --- | --- | --- | --- |
| Located in Okmulgee, OK | **Oklahoma State University – Institute of Technology** |  |  | **Oklahoma City Community College** |
| **Construction Technology A.A.S.** * Construction Management
* Electrical Construction

**Engineering Technologies A.A.S.** * Electrical / Electronics Technologies
* Instrumentation Technologies

**Industrial Maintenance Technologies A.A.S.*** Natural Gas Compression

**Bachelor of Technology Degree:*** Instrumentation Engineering Technologies
 |  | **Associates of Applies Science Degrees:*** Engineering Technology A.A.S.
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|  | **Oklahoma State University – Oklahoma City** |
| **Associates of Applies Science Degrees:*** Construction Management A.A.S.
* Construction Techniques A.A.S.
* General Engineering A.A.S.
* Power Transmission & Distribution Tech. A.A.S.
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|  | **Southwestern Oklahoma State University** |  |
| **Bachelor of Science in Applied Engineering Management:*** Manufacturing Technology
* Electronics Technology

**Bachelor of Science in Engineering Technology*** Manufacturing Engineering Technology
 |  | **Additional Related Bachelors, Masters, and Doctoral Degrees can be found at these Oklahoma Universities.**  | [Oklahoma State University](https://go.okstate.edu/)[University of Oklahoma](https://www.ou.edu/)[University of Tulsa](https://utulsa.edu/) |

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|  For CV Tech Program Details, visit: [https://cvtech.edu](https://cvtech.edu/class-offerings?type=full) |
|  |
| **Arts, A/V Technology****& Communication****Career Cluster** |
| **CV Tech Programs:** | **Recommended Elective Courses:** |
| * **Digital Media Technology**
* **Graphic Design**
 | **Computers:*** Business Computer Applications
* Fundamentals of Technology
* Digital Computer Literacy
 | **Fine Arts:*** Art 1
* Art 2
 |
| **Sample Occupation Pathways:** |
| **Journalism & Broadcasting Pathway** | **Performing Arts Pathway** | **Printing Technologies Pathway** |
| * Audio & Video Equipment Tech.
* Broadcast News Analyst
* Camera Operators
* Copy Writers
 | * Editors
* Film & Video Editors
* Photographers
* Sound Engineers
* Technical Writers
* Authors and Writers
 | * Actors
* Agents (for Actors, Artists, and Athletes)
* Choreographers
* Dancers
* Directors
 | * Makeup Artists
* Music Composers
* Music Directors
* Producers
* Singers
 | * Desktop Publisher
* Prepress Technician
* Prepress Worker
* Printing Press Operator
 | * Print Binding and Finishing Workers
* Proofreaders
* Copy Markers
 |
| **Telecommunications Pathway** | **Visual Arts Pathway** |
| * Telecommunications Equipment Installers and Repairers
* Telecommunications Line Installers and Repairers
 | * Art Directors
* Artists and Related Workers
* Commercial & Industrial Designers
* Craft Artists
* Designers
 | * Fashion Designers
* Fine Artists (painters, sculptors, Illustrators, etc.)
* Floral Designers
* Graphic Designers
* Multimedia Artists & Animators
 |
| **Sample Arts, A/V Technology, & Communications Cluster Salaries**Wage information comes from the Bureau of Labor Statistics, [Occupational Employment Statistics Program](https://www.bls.gov/ooh/) |
| * Audio & Video Equipment Tech - $17,690 - $59,880
* Camera Operators - $26,080 - $89,100
* Film & Video Editors - $29,710 - $67,600
* Photographers - $18,710 - $47,620
* Technical Writers - $34,040 - $83,600
* Writers and Authors - $27,150 - $77,540
 | * Agents - $16,580 - $68,740
* Choreographers - $22,960 - $101,060
* Directors - $28,320 - $93,940
* Music Directors - $17,360 - $60,700
* Desktop Publishers - $20,090 - $65,400
* Prepress Technician - $21,100 - $50,860
 | * Printing Press Operator - $18,670 - $42,380
* Telecommunications Equipment Installers - $29,800 - $68,340
* Art Directors - $35,660 - $100,700
* Fine Artists - $34,910 - $82,740
* Graphic Designer - $20,410 - $63,130
* Multimedia Artist & Animators - $25,680 - $79,750
 |

**Additional Related Post-Secondary Opportunities**

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| --- | --- | --- | --- | --- |
|  | **Oklahoma State University – Institute of Technology** |  |  | **Oklahoma City Community College** |
| School of Creative & Information Technologies:3D Modeling & AnimationGraphics Design TechnologyInformation Technologies |  | **Digital Media Design:** * Graphic Design A.A.S.
* Photography/Digital Imaging A.A.S.

**Digital Cinema Production:*** Digital Cinema Production A.A.S.
 |
|  |  |  |  |
| **Rose State College** | **Rose State College** |  | **Oklahoma State University – Oklahoma City** |
| **Multimedia Communication:** * Digital Graphic Design A.A.S.
* Mobile Design
 | Associates of Applies Science Degrees:* Construction Management A.A.S.
* Construction Techniques A.A.S.
* General Engineering A.A.S.
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|  For CV Tech Program Details, visit: [https://cvtech.edu](https://cvtech.edu/class-offerings?type=full) |
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| **Business Management and****Administration & Finance****Career Clusters** |
| **CV Tech Programs:** | **Recommended Elective Courses:** |
| * **Accounting and Business Education**
 | **Math:*** Pre-Calculus AP
* Calculus or Calculus AP
* Statistics or Statistics AP
 | **Computers:*** Business Computer Applications
* Fundamentals of Technology
* Digital Computer Literacy
 |
| **Sample Occupation Pathways:** |
| **Business Management and Administration Cluster** |
| **Administrative Support Pathway** | **Business Information Management Pathway** | **General Management Pathway** |
| * Bookkeeping
* Accountants
* Executive Secretaries
 | * Payroll Clerks
* Procurement Clerks
* Receptionist
 | * Computer and Information Systems Managers
 | * Compliance Managers
* Investment Fund Managers
* Loss Prevention Managers
 | * Security Managers
* Supply Chain Managers
 |
| **Human Resource Management Pathway** | **Operations Management Pathway** |
| * Compensation & Benefits Manager
* Human Resources Manager
 | * Labor Relations Specialists
* Training & Development Managers
 | * Administrative Services Manager
* Customs Brokers
 | * Purchasing Managers
* Quality Control Systems Managers
 |
| **Finance Cluster** |
| **Accounting Pathway** | **Banking Services Pathway** | **Business Finance Pathway** | **Insurance Pathway** | **Securities & Investments Pathway** |
| * Accountant
* Auditors
 | * Credit Analyst
* Loan Officers
* Tellers
 | * Budget Analyst
* Tax Preparers
* Treasurers
 | * Actuaries
* Insurance Adjusters
* Insurance Sales
 | * Brokerage Clerks
* Personal Financial Advisor
* Risk Management Specialist
 |
| Sample **Business Management and Administration & Finance Cluster** SalariesWage information comes from the **Bureau of Labor Statistics**, Occupational Employment Statistics Program |
| * Accountant & Auditor - $39,550 - $111,050
* Bookkeeping Clerks - $21,920 - $58,660
* Executive Secretaries - $28,030 - $69,490
 | * Human Resources Manager - $55,220 - $157,590
* Labor Relations Specialist - $17,350 - $174,850
* Training & Development Manager - $53,300 - $147,580
 | * Purchasing Managers - $55,270 - $159,740
* Personal Financial Managers - $22,450 - $149,700
 |

**Additional Related Post-Secondary Opportunities**

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| --- | --- | --- | --- | --- |
| Located in Okmulgee, OK | **Oklahoma State University – Institute of Technology** |  |  | **Oklahoma City Community College** |
| **Construction Technology A.A.S.** * Construction Management
* Electrical Construction

**Engineering Technologies A.A.S.** * Electrical / Electronics Technologies
* Instrumentation Technologies

**Industrial Maintenance Technologies A.A.S.*** Natural Gas Compression

**Bachelor of Technology Degree:*** Instrumentation Engineering Technologies
 |  | * Engineering Technology A.A.S.
 |
|  |  |
|  | **Oklahoma State University – Oklahoma City** |
| Associates of Applies Science Degrees:* Construction Management A.A.S.
* Construction Techniques A.A.S.
* General Engineering A.A.S.
* Power Transmission & Distribution Tech. A.A.S.
 |
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|  | **Southwestern Oklahoma State University** |  |
| **Bachelor of Science in Applied Engineering Management:*** **Manufacturing Technology**
* **Electronics Technology**

**Bachelor of Science in Engineering Technology*** **Manufacturing Engineering Technology**
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|  For CV Tech Program Details, visit: [https://cvtech.edu](https://cvtech.edu/class-offerings?type=full) |
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| **Health Sciences** **Career Cluster** |
| **CV Tech Programs:** | **Recommended Elective Courses:** |
| * **Health Careers**
* **Medical Assistant**
* **Medical Office**
* **Practical Nursing (Adult Students Only)**
 | **Computers:*** Business Computer Applications
* Fundamentals of Technology
* Digital Computer Literacy

**Math:*** Pre-Calculus AP
* Calculus or Calculus AP
* Statistics or Statistics AP
 | **Science:*** Environmental Science AP
* Physics or Pre-AP Physics or AP Physics
* Pre-AP Chemistry or AP Chemistry
 |
| **Sample Occupation Pathways:** |
| **Biotechnology Research & Dev. Pathway** | **Diagnostic Services Pathway** | **Health Informatics Pathway** |
| * Biomedical Engineers
 | * Medical Scientist
 | * Cardiovascular Technician
* Cytogenetic Technologist
* Sonographers
* Epidemiologist
 | * MRI Technologist
* Radiologist
* VET Tech Assistant
 | * Medical Records & Health Information Technicians
 | * Medical Secretaries
* Medical Transcription
 |
| **Support Services Pathway** | **Therapeutic Services Pathway** |
| * Endoscopy Technicians
* Orderlies
* Pharmacy Aides
* Phlebotomist
* Speech Language Pathologist
 | * Acupuncturist
* Acute Care Nurses
* Allergist & Immunologists
* Anesthesiologists
* Athletic Trainers
 | * Audiologist
* Chiropractors
* Clinical Nurse Specialist
* Critical Care Nurses
* Dental Assistants
 | * Dermatologist
* Dietetic Technicians
* Dietitians Technicians
* Home Health Aides
* Medical Assistant
 | * Nursing Assistants
* Optometrist
* Orthodontist
* Pediatrician
* Physical Therapist
 |
| **Sample Health Sciences Career Cluster Salaries**Wage information comes from the Bureau of Labor Statistics, Occupational Employment Statistics Program |
| * Biomedical Engineer - $48,250 - $90,150
* Cardiovascular Technician - $23,700 - $74,360
* Sonographers - $51,200 - $93,120
 | * Phlebotomist - $23,250 - $40,380
* Speech Language Pathologist - $37,280 - $122,770
* Acupuncturist - $46,270 - $113,440
 | * Dental Assistant - $26,750 - $48,970
* Nursing Assistant - $20,480 - $32,640
* Physical Therapist - $49,690 - $122,340
 |

**Additional Related Post-Secondary Opportunities**

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| --- | --- | --- | --- | --- |
| Located in Okmulgee, OK | **Oklahoma State University – Institute of Technology** |  |  | **Oklahoma City Community College** |
| **Construction Technology A.A.S.** * Construction Management
* Electrical Construction

**Engineering Technologies A.A.S.** * Electrical / Electronics Technologies
* Instrumentation Technologies

**Industrial Maintenance Technologies A.A.S.*** Natural Gas Compression

**Bachelor of Technology Degree:*** Instrumentation Engineering Technologies
 |  | * Engineering Technology A.A.S.
 |
|  |  |
|  | **Oklahoma State University – Oklahoma City** |
| Associates of Applies Science Degrees:* Construction Management A.A.S.
* Construction Techniques A.A.S.
* General Engineering A.A.S.
* Power Transmission & Distribution Tech. A.A.S.
 |
|  |  |  |
|  | **Southwestern Oklahoma State University** |  |
| **Bachelor of Science in Applied Engineering Management:*** **Manufacturing Technology**
* **Electronics Technology**

**Bachelor of Science in Engineering Technology*** **Manufacturing Engineering Technology**
 |  |  |  |