

Name: \_\_\_\_\_

**Architecture and Construction**  
**Career Pathway Individual Career Plan: Computer-Aided Drafting and Design**  
**Career Cluster Plan of Study for > Learners > Parents > Counselors > Teacher/Faculty**

I have an account on Oklahoma Career Guide  
 \_\_\_\_\_  
 I have updated my resume on Oklahoma Career Guide  
 \_\_\_\_\_



This Career Cluster Plan of Study (based on the Architecture and Construction Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. \*This Plan of Study, used for learners at an educational institution, should be customized with course titles and appropriate high school graduation requirements, as well as college entrance requirements.



EDUCATION LEVELS	GRADE	English/ Language Arts	Math	Science	Social Studies/ Sciences	Other Required Courses, other electives, recommended electives, learner activities	Career and Technical Courses And/or Degree Major Courses for Computer-Aided Drafting and Design	Occupations Relating to Computer-Aided Drafting and Design
<b>Oklahoma Career Guide Interest Inventory Administered</b>								
<b>SECONDARY</b>	8	<input type="checkbox"/> 8th Grade English	<input type="checkbox"/> Pre-Algebra or Algebra 1	<input type="checkbox"/> 8th Grade Science	<input type="checkbox"/> 8th Grade Civics	<input type="checkbox"/> Financial Literacy  <input type="checkbox"/> Computer Technology I and <input type="checkbox"/> Computer Technology II  Or <input type="checkbox"/> Foreign Language I and <input type="checkbox"/> Foreign Language II  <input type="checkbox"/> Fine Arts or Speech	<input type="checkbox"/> Fundamentals of Computer Aided Drafting and Design <input type="checkbox"/> Drawing and Document Management <input type="checkbox"/> Material and Equipment Specifications <input type="checkbox"/> Architecture Computer Aided Drafting and Design <input type="checkbox"/> Engineering Computer Aided Drafting and Design <input type="checkbox"/> Manufacturing Computer Aided Drafting and Design <input type="checkbox"/> CAD Civil Introduction <input type="checkbox"/> CAD Piping Introduction <input type="checkbox"/> CAD Architectural Level 1 <input type="checkbox"/> CAD Mechanical Level 1 <input type="checkbox"/> Workforce Staging <input type="checkbox"/> Principles of CAD Design  <small>*Optional Certifications: American Design and Drafting Association (ADDA)-Basic Drafter, Brainbench</small>	<ul style="list-style-type: none"> <li>➤ Architectural Firms</li> <li>➤ Computer-Aided Manufacturing</li> <li>➤ Equipment Manufacturing</li> <li>➤ Engineering Firms</li> <li>➤ Petroleum Industry</li> <li>➤ Steel Construction Industry</li> <li>➤ 3-D Modeling and Design</li> </ul>
	9	<input type="checkbox"/> English/ Language Arts I	<input type="checkbox"/> Algebra 1/ Geometry	<input type="checkbox"/> Biology/Physical Science	<input type="checkbox"/> OK History/ Civics			
	10	<input type="checkbox"/> English/ Language Arts II	<input type="checkbox"/> Geometry/ Algebra II	<input type="checkbox"/> Chemistry/ Biology/ Astronomy	<input type="checkbox"/> World History/ European History			
	11	<input type="checkbox"/> English/ Language Arts III	<input type="checkbox"/> Algebra II/ Pre-Calculus/ Trigonometry	<input type="checkbox"/> Physics/ Zoology/ Environmental Science	<input type="checkbox"/> U.S. History			
	<b>College Placement Assessments-Academic/Career Advisement Provided</b>							
12	<input type="checkbox"/> English/ Language Arts IV	<input type="checkbox"/> Pre-Calculus/ Trigonometry/ AP Calculus Statistics/Alg III	<input type="checkbox"/> AP Science/ Meteorology/ Physiology/ Botany	<input type="checkbox"/> World Geography/ AP History/ Economics				
<b>Postsecondary Programs and AAS Degrees With Cowley County Community College</b>								
<b>POSTSECONDARY</b>	13	<input type="checkbox"/> English Comp I	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Computer App (3 hrs) General Education Electives (3 hrs) Social Science (3 hrs) Humanities (3 hrs)	An Associate of Applied Science General Studies degree may be obtained after the completion of 30 hours of college credit (15 of those hours must be at Cowley County Community College) and the completion of Drafting and Design at Autry Technology Center.	
	14	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	15	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			
	16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			

\*Different requirements may be required at other colleges/universities.

\*Bachelor's Degree may be available.

## Oklahoma Graduation Checklist

**English (4 units)**

- English I
- English II
- English III
- English IV
- Other (approved for college admission)

**Mathematics ( 3 units)**

- Algebra I
- Algebra II
- Geometry
- Trigonometry
- Math Analysis
- Calculus
- AP Statistics
- Other (approved for college admission)

**Laboratory Science (3 units)**

- Biology I
- Chemistry
- Physics
- Other (approved for college admission)

**History and Citizenship Skills (3 units)**

- 1 United States History, and
- 1/2 United States Government
- 1/2 Oklahoma History
- 1 selected from the subjects of History, Government, Geography, Economics, Civics, or non-Western Culture (approved for college admission)

**Foreign or Non-English Language OR Computer Technology (2units)**

- 1<sup>st</sup> year of Foreign or Non-English lanauge
- 2<sup>nd</sup> year of **same** Foreign or Non-English language
- OR**
- 1<sup>st</sup> year of Computer Technology
- 2<sup>nd</sup> year of Computer Technology

**Additional Unit from any courses above (1 unit)**

**Electives (at least 6 units)**

**Fine Arts or Speech (1 unit)**

- Music
- Art                   **OR**    Speech
- Drama

**Personal Financial Literacy**

**Minimum Units Required to Meet State Graduation Requirement**

**23 units**

### College Admission Standards for First-Time Entering Students

	<u>Option 1</u> Minimum ACT/ SAT	<u>Option 2</u> Minimum GPA and Class Rank	
<b>University of Oklahoma*</b>	Resident: 24/1090 <b>AND</b> 3.0 GPA or top 50% <sup>2</sup>	Resident: 3.0 GPA <b>AND</b> top 25% <sup>1</sup>	
	Non-resident students will be considered for admission using holistic review and selection considering several factors that predict academic success (high school grade point average, high school course rigor, academic engagement, writing ability, leadership and ACT/SAT scores).		
<b>Oklahoma State University</b>	24/1090	3.0 GPA <b>AND</b> top 33%	3.0 GPA <b>AND</b> ACT 21 or SAT 980
	<b>Option 4</b> ACT/SAT or High School GPA plus Cognitive Factors and Non-Cognitive Factors <sup>2</sup>		
<ul style="list-style-type: none"> <li>Students who score between current OSU admission standards and the minimum State Regents' standards (22 ACT/1020 SAT or un-weighted high school core curriculum GPA of at least 3.0)</li> <li><u>Cognitive Factors (60 percent)</u></li> <li><u>Non-Cognitive Factors (40 percent)</u></li> </ul>			
<b>University of Science and Arts of Oklahoma</b>	24/1090 <b>AND</b> 3.0 GPA or top 50%	3.0 GPA <b>AND</b> top 25%	3.0 GPA <b>AND</b> ACT 22 or SAT 1020
<b>Regional Universities</b>	20/940	2.7 GPA <b>AND</b> top 50%	2.7 GPA
<b>Community Colleges</b>	No minimum required		