

# Tucson Unified School District - Career and Technical Education

## CAREER PATHWAY

School Name:



Architecture and Construction: **Drafting and Design Technology (15.1300) College Entry**

Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

*This Career Pathway plan (along with other career planning materials) will serve to direct learners on an Architecture (college-entry) career path. Courses listed within this plan are prescribed with regard to required graduation, licenses, and certifications. Student organization Skills USA may also be included as well as summer school*

EDUCATION LEVELS	GRADE	English	Math	Science	Social Studies/ Sciences	Other Required Courses, Other Electives, Recommended Electives, Learner Activities	*Career & Technical Courses and/or Degree Major Courses	Occupations Relating to this Pathway <a href="http://www.bls.gov/oco/home.htm">www.bls.gov/oco/home.htm</a>
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*Interest Inventory Administered and Plan of Study Initiated for all Learners*

<b>SECONDARY</b>	9	English 1-2	Algebra 1-2 or Geometry	Biology	World History/ Geography	Physical Education	Draft/Design 1,2	<b>Occupations Requiring Less than Baccalaureate Degree</b> ► Mechanical Drafter ► Electrical and Electronic Drafter ► Architectural & Civil Drafter ► Drafters, All Others ► Civil Engineering Technician ► Environmental Engineering Technician ► Electrical and Electronic Engineering Technician  <b>Occupations Requiring Baccalaureate Degree</b> ► Landscape Architect ► Architect ► Structural Engineer ► Mechanical Engineer ► Environmental Engineer ► Electronic Engineer ► Civil Engineer	
	10	English 3-4	Geometry or Int. Algebra	Chemistry 1-2		.5 Health; Fine Arts	Draft/Design 3,4		
	11	English 5-6	Inter.Algebra or Pre- Calculus	Science College Cr	American History	1st Year Foreign Language	Draft/Design 5,6		
	<i>College Placement Assessments-Academic/Career Advisement Provided</i>								
	12	English 7-8	Pre-Calculus or Calculus		American Government	2nd Year Foreign Language	Draft/Design 7,8 or Draft Design Intern 1,2		

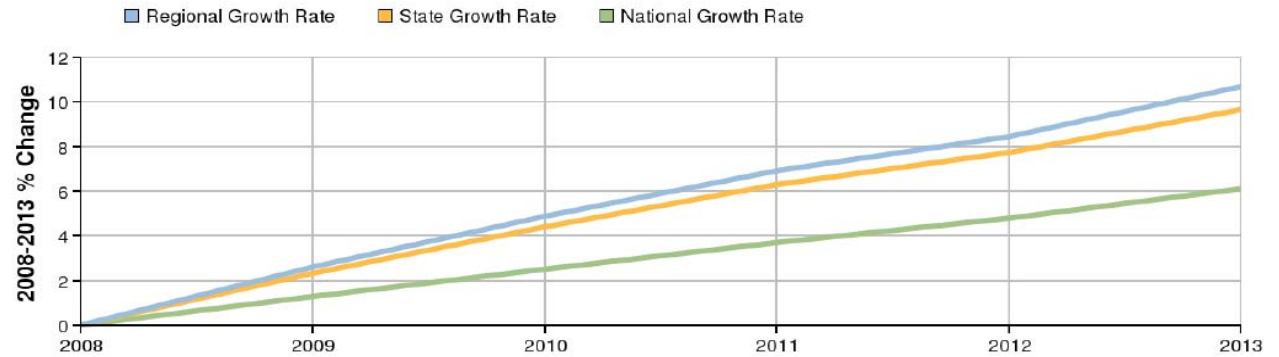
**CERTIFICATION** Upon completion of Drafting and Design students will take the certification written test and hands-on skill test to verify successful industry standard skills. Pima Community College offers Engineering Concentration - Associate of General Studies degree.

Articulation/Dual Credit Transcribed-Postsecondary courses may be taken/moved to the secondary level for articulation/dual credit purposes.

<b>POSTSECONDARY</b>	Year 13					All plans of study need to meet learners' career goals with regard to required degrees, licenses, certifications or journey worker status. Certain local student organization activities may also be important to include. Work-based learning is an integral part of this pathway.	<b>ARTICULATED COURSES*</b> CAD 101 (Check your site)
	Year 14	Check requirements for 2-year and 4-year degrees					
	Year 15	Continue courses in the area of specialization					
	Year 16						

# Architecture and Engineering Occupations Incorporating Drafting Design & Technology Region: Pima County

## Occupational Change Summary



Description	2008 Jobs	2013 Jobs	2007 Avg Hourly Earnings
Mechanical engineers	2,422	2,684	\$39.23
Electrical engineers	1,301	1,449	\$45.34
Civil engineers	990	1,076	\$32.47
Electrical and electronic engineering technicians	804	890	\$22.52
Surveyors	613	684	\$23.09
Architectural and civil drafters	602	621	\$21.30
Architects, except landscape and naval	561	597	\$31.18
Aerospace engineers	493	566	\$49.92
Civil engineering technicians	336	364	\$20.37
Engineering technicians, except drafters, all other	335	365	\$25.03
Mechanical drafters	314	343	\$23.62
Landscape architects	285	294	\$32.58
Environmental engineers	265	295	\$27.43
Electrical and electronics drafters	181	197	\$25.08
Environmental engineering technicians	142	157	\$25.89
Mechanical engineering technicians	122	136	\$24.36
Drafters, all other	84	89	\$25.04
Aerospace engineering and operations technicians	<10	<10	--
<b>Total</b>	<b>9,851</b>	<b>10,808</b>	<b>\$33.05</b>

Source: EMSI Complete Employment - March 2008

### Graduation Requirements For 2009, 2010, 2011 Grads 21 Units or Credits

	Min. H.S.	Univ.
English	4	4
Mathematics	3	4
Science	2	3
Social Studies	3	3
Fine Arts/CTE	1	*1
Physical Educ	1	
Health	0.5	
World Language		2
Career Pathway	6.5	
<b>TOTAL</b>	<b>21</b>	<b>21</b>
		or more

### Graduation Requirements For 2012 Grads 22 Units or Credits

	Min. H.S.	Univ.
Science	3	3
<b>TOTAL</b>	<b>22</b>	<b>22</b>
		or more

### Graduation Requirements For 2013 Grads

	Min. H.S.	Univ.
Mathematics	4	4