

Architecture and Construction

Architecture and construction involves much more than hard hats and blue prints. It's about having a vision, putting it on paper, and then seeing it physically take shape before your eyes. It's about being handy and building things from scratch. It's about seeing the big picture, thinking 3-D, working outdoors, and being part of a team – not to mention sometimes leading the team, too. If this sounds like you, architecture and construction might be a good fit.

If your highly motivated and a self starter, take note: construction is one field where you can start as an apprentice and end up owning and operating your own firm. One recent study showed that almost 6 percent of graduates in construction become owners or part owners in 10 years, and more than 20 percent reach that level in 15 years.

Opportunities in architecture and construction are growing. Because older workers are retiring faster than young workers can replace them, 14 million new construction workers will be required in this country by the year 2015.

Ten Highest-Paying Jobs In Architecture and Construction

Occupation	Salary
1.Elevator Installer and Repairer.....	\$58,190
2.Landscape Architect.....	\$57,680
3.Construction Manager.....	\$53,980
4.Pile-Driver Operator.....	\$46,720
5.Construction and Building Inspector.....	\$45,460
6.Electrician.....	\$44,900
7.Structural Iron and Steel Worker.....	\$44,300
8.Plumber/Pipefitter/Steamfitter.....	\$44,110
9.Brickmason/Blockmason.....	\$42,480

Pathway Requirements

For this specific cluster the requirements are 1 credits of required and 3 of the recommended courses.

To the right are tables which indicate the courses in each area. Included are other related courses which you may take for your own personal gain in the area of Design/Pre-Construction.

Required Courses

Course #	Course Name	Credits
TED302	Applied Architectural Design	1

Recommended Courses

Course #	Course Name	Credits
TEZ301	Principles of Engineering	.5
TED601	Engineering Design/Development	1
TES301	Computer Animation	1
MAD501	Math Analysis	1
SCP501	Physics	1
TED305	Architectural Drawing	.5
VEW30*	Career Practicum	1

Related Courses

Course #	Course Name	Credits
ARA301	Fundamentals of Art	1
BCC305	Java	.5
BCC307	Visual Basic	.5
BCC511	AP Computer Science A	1
BCC512	AP Computer Science B	1
TED303	Engineering Drawing/CAD	1

(* indicates that courses are Distance Learning)

Only required and recommended courses apply toward four Carnegie unit endorsements.

AHS

AVIANO HIGH SCHOOL



PROFESSIONAL
TECHNICAL
STUDIES

ARCHITECTURE
& CONSTRUCTION

What is the purpose of the Professional Technical Studies Program?

The Professional Technical Studies Department offers courses in many career fields to students in DoDEA middle and high schools. The mission of this department is to prepare our students to be technologically literate and employable in a global workforce.

DoDEA Career Clusters and Pathways

Career Clusters represent major groupings of similar occupations and industries within the U.S. job market (e.g., business, information technology, manufacturing, health, human services.) Each Cluster provides students with the “big picture” in terms of career options and an understanding of the broad industry. Within each of the career clusters are various Career Pathways which represent a variety of occupational fields or jobs associated with the career cluster.