



# Southwest Career Technical Academy

## Pathway: Architectural Engineering

9th Grade	10th Grade	11th Grade	12th Grade
English I/ H	English II/ H	English III/ American Lit./ H AP English Language & Comp.	English IV/ Composition H AP English Lit & Comp.
Algebra I/ H Geometry H	Geometry I/ H Algebra II/ H	Algebra II/ H Pre Calc/ Trigonometry	Pre Calc/ Trig H/ AP Calculus/ Dual College Credit Option
Principles of Science Biology I H	Biology I/ H Chemistry IH	Chemistry/ H Physics/ H Genetics H/ Anatomy & Physiology	Elective
Tools for Success/ Freshman Studies	World History/ H	US History/ H/ AP	US Government/ H/ AP
PE I	PE II or PE II Waiver/ Elective	Elective	Architectural Engineering II
Art/ Arts and Humanities	Health/Drivers Ed	Architectural Engineering I	↓ ↓ ↓
Elective	Intro to Transportation & Trades	↓ ↓ ↓	↓ ↓ ↓
Pre Requisites		Career Technical Fees	
Good math /algebra skills. Able to communicate with visual description (pictures/sketching). Good drawing skills and an interest in creating and building objects (i.e. models, Lego's, sculpture art work). Having a good sense of direction.		\$5 Intro to Architectural Engineering / \$20 Architectural Engineering I/ \$25 Architectural Engineering II	
Certifications	Possible Articulated Courses		Post Secondary Options
CCSD Occupational Certificate of Competency	CADD 100 Intro to Drafting – 4 CADD 105 Drafting Tech I – 4 ADT 100B Drafting Tech II – 4		CSN UNR NSC UNLV
Career Pathways Available			
CADD Operator*, Laser Operator*, Designer, Estimator, Contractor. After a four year degree... Construction Manager, Engineer, Architect *This will be an entry-level position. Continued post-secondary education and training will be required. Source- <a href="http://bis.gov/oco/ocos111.htm">http://bis.gov/oco/ocos111.htm</a>			

\*Following the Academic course sequencing fulfills the requirement for Millennium Scholarship & 21<sup>st</sup> Century Course of Study provided student maintains the required GPA and passes all proficiency exams.

\*Students who are program completers and have earned an overall 2.0 GPA or higher in their career technical major will earn a CCSD Certificate of Competency.

\*Fees subject to change without notice.

\*Administration reserves the right to change course offerings based on staffing and enrollment.