Rev: 11/18



## Commonwealth of Virginia Plan of Study

Student	Name:	
School:	TC Williams	
Date: <u>3</u> -	2018	

**Cluster: Architecture & Construction** 

Pathway: Design and Pre-Construction

This Career Pathway Plan of Study 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.

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EDUCATION LEVELS	GRADE	English/ Language Arts	Mathematic	es	Science	Social St	tudies/ Science	Other Required Courses Recommended Electives Learner Activities	Tec Adminis	nmended Career and chnical Courses Source: trative Planning Guide w.cteresource.org/apg/	SAMPLE - Occupations Relating to This Pathway: http://www.doe.virginia.gov/inst uction/career_technical/career_ clusters/sample_plans_study/ir dex.shtml			
		NOTE: Indicate State Course Titles and Codes												
	Graduation Requirements: http://www.doe.virginia.gov/instruction/graduation/index.shtml									Architect Building Code Inspector				
MIDDLE	7	English 7 (1110)	Math 7 (3111)		Life Science (4115)	U S History	(2354)	Health, PE, Family Life (7120)	Inventions 8	Solutions (6609) & Innovations (8464)	Civil Engineer Computer Aided Drafter			
	8	English 8 (1120)	Math 8 (3121) or Algebra I (3130)		Physical Science (4125)		onomics (2357)	Health, PE, Family Life (7200)		t Technologies (6160) cal Systems (8463)	Cost Estimator Electrical Engineer General Contractor			
Career Assessment: Identity an appropriate career assessment instrument at the middle school level used to help students and their parents plan for high school:											Green Technology Specialist			
SECONDARY	9	English 9 (1130)	Algebra I (3130) or Geometry (3143)		Biology (4310)	World Histo (2215)	ry/ Geography I	Economics & Personal Finance (6120)	Engineerin	ng Explorations (8435)	Environmental Designer Interior Designer Landscape Architect Materials Engineer			
	10	English 10 (1140)	Geometry (3143) or Algebra II (3135)		Earth Sciences (4210)	World Histo (2216) or A	ry/ Geography II P World (2380)	1 oroigit Lariguage (o		hnical Drawing (8435)	Mechanical Drafter Modeler Planner/Designer			
	11	English 11 (1150) or AP Language (1196) or DE College Composition (1601)	Algebra II (3135) or Pre-Calculus (3162) Pre-Calculus (3162) or AP Calculus BC (3177)		Chemistry (4410)	Chemistry (4410)  US/VA History (2360) or DE US History or AP US History (2319)  US/VA Government(2440) or AP Government (2445)		years) Other Electives to Complement Pathway (Core Academic and CTE):	Architectu	ral Drawing & Design (8437)	Preservationist Protection Engineer Regional and Urban Renderer Renewable Technology Engineer			
	12	English 12 (1160) or AP Literature (1195) or DE World Literature (1602)			AP Science			OTE).	(8436)	ng Drawing & Design ) or Sustainable & e Technologies (8414)	Specifications Writer			
		College courses offered locally in the high school for college credit should be coded: DE (Dual Enrollment), AP (Advanced Placement) and/or VC (Validated Cre												
http://www Financial	List related certifications/credentials approved by VDOE and offered locally:  http://www.cteresource.org/apg (Go to Certification – License Section)  Financial Literacy Certification (W!SE)  Workplace Readiness Skills for the Commonwealth (CTECS)  Additional Learning Opportunities:  CTSO Organization(s): DECA FBLA FCCLA FFA  FEA HOSA X SkillsUSA X TSA  Work-Based Learning:  X Career Research Cooperative Education Internship Mentorship  X Job Shadowing Service Learning Project Student Apprenticeship								X TSA  Mentorship					
College Entrance Exams such as ACT, SAT and AP														
POSTSECONDARY	SAMPLE POSTSECONDARY PROGRAMS RELATED TO THIS CAREER PATHWAY Individual plans must include locally agreed upon courses at the postsecondary level (See page 2)													
	Pathway			Associate Degree, College Certificate, or Apprenticeship		Bachelors Degree		Postgraduate Degree						
	Design & Pre-Construction Architecture Technology, AAS			3	Architecture, BS Arc			hitecture, MS						

College: Northern Virginia Community College

School Division(s): Alexandria City Public Schools

Postsecondary: Placement Assessments such as Virginia Placement Test, ACT or SAT												
	Semester	English	Mathematics	Science	Social Studies	Required Courses or		Recommended Electives				
POSTSECONDARY - COMMUNITY COLLEGE or APPRENTICESHIP - Determined Locally	POSTSECONDARY PLAN OF STUDIES MUST INCLUDE POSTSECONDARY ACADEMIC, CTE, AND OTHER ELECTIVE COURSES APPROPRIATE FOR AN ASSOCIATE DEGREE.											
	Year 1 1st Semester	ENG 111 College Composition				ARC 200 History of Architecture & CAD 201 Computer Aided Drafting & Design I	ARC 123 Architectural Graphics I	ARC 133 Construction Methodology & Procedures I	SDV 100 College Success Skills			
	Year 1 2 <sup>nd</sup> Semester		MTH 115 Technical Mathematics I			ARC 138 Structures for Architects	ARC 124 Architectural Graphics II	ARC 134 Construction Methodology & Procedures II	ARC 298 Seminar & Project or ARC Elective			
	Year 2 1st Semester				Social Studies Elective	CAD 202 Computer Aided Drafting & Design II	ARC 225 Site Planning	ARC 231 Architectural Design & Graphics I	ARC 243 Environmental Systems			
	Year 2 2 <sup>nd</sup> Semester	CST Communication Elective			Humanities- Fine Arts Elective	CAD 203 Computer Aided Drafting & Design III	ARC 240 Designing Sustainable Built Environments or Technical Elective	ARC 232 Architectural Design & Graphics II	PED 116 Lifetime Fitness & Wellness			
	College courses offered locally in the high school for college credit should be coded: DE (Dual Enrollment), AP (Advanced Placement) and/or VC (Validated Credit)											
Related I	ndustry Cer	tifications Available	9:			Additional S	Suggested Learning Op	portunities:				
	Work-Based Learning:  ☐ Cooperative Education x Internship ☐ Mentorship ☐ Job Shadowing ☐ Service Learning Project ☐ Registered Apprenticeship											
UNIVERSITY	University/College: University of Virginia Degree or Major: Architecture Number of Articulated CC Credits: varies											
Notes: 1 attend.	lotes: This is pathway is designed for students seeking to enter the workforce. Students wishing to pursue a BS degree should follow the General Studies degree and align courses to the university they plan to ttend.											