



Program of Study
Career Field: Industrial, Manufacturing, and Engineering Systems
Career Cluster: Architecture and Construction
Career Pathway: Design/Pre-Construction



Southeast Community College

DEGREE:
 Architectural- Engineering Technology
<http://www.southeast.edu/programs/Arch/default.aspx>

	GRADE	ENGLISH	MATH	SCIENCE	SOCIAL STUDIES	GENERAL ELECTIVES	PATHWAY ELECTIVE COURSES	EXTENDED LEARNING SCHOOL/COMMUNITY ACTIVITIES			
HIGH SCHOOL	9	English/Language Arts I	Algebra I	Physical Science	Geography	World Languages & Cultures Physical Education Health Education Information Technology Applications I Entrepreneurship CAD (Computer Aided Drafting) Construction Principles of Construction	Intro to the Built Environment	<i>School Activities:</i> SkillsUSA, OPPD/NPPD Power Drive, FFA, Math Club, MATHCOUNTS <i>Community Activities:</i> Do home repair projects, Learn about history of the buildings in your community, Work with a contractor, Part-time employment available within this career cluster, Internships available within this career cluster			
	10	English/Language Arts II	Geometry	Biology	World History		Plus two from the following: Language of Architecture & Construction				
	11	English/Language Arts III	Algebra II	Chemistry	American History		Principles of Design & Pre-construction Applications in Design & Pre-construction				
	12	English/Language Arts IV	Intro to Statistics Discrete Math Pre-Calc	Physics	American Government or Economics		Intro to Architecture Technology Housing & Home Furnishings				
SOUTHEAST COMMUNITY COLLEGE		COMMUNICATIONS	MATH/SCIENCE	SOCIAL SCI/HUMANITIES	COMPUTER TECHNOLOGY	FOCUS COURSES					
	13 and 14	Public Speaking	Applied Algebra & Trig	Personal Finance	Microsoft Applications	Materials of Construction	Heating and Air Conditioning Systems I, II	Light Construction Principles	Computer Aided Drafting I, II, III	Basic Architectural Drafting	Basic Estimating
			Environmental Geology	Applied Ethics	Computer Literacy	Elementary Structural Design	Plumbing Systems Drafting	Plumbing Systems	Heating and Air Conditioning Systems Drafting	Structural Detailing & Design I, II	Structural Building Systems I,II
						Freehand Drawing for Design Detailers	Fundamentals of Commercial Architecture	Commercial Architecture Drafting	Residential Design and Drafting	Electrical Systems Theory	Advanced Mechanical Systems Theory
						Electrical Systems Drafting	Advanced Mechanical Systems Drafting	Site Planning and Surveying	Comprehensive Project Design	Construction Estimating	Life Safety Code