Program of Study

Career Field: Industrial, Manufacturing, and Engineering Systems

Career Cluster: Science, Technology, Engineering, and Mathematics

Career Pathway: Engineering and Technology

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	Biology	Geography	World Languages & Cultures Physical Education Health Education Entrepreneurship CAD (Computer Aided Drafting) Engineering Technology Industrial Technology Information Technology Applications I	Principles of Engineering *or* Intro to Engineering Design *Plus two from the following:* Computer Integrated Manufacturing Civil Engineering & Architecture Engineering Design & Development Aerospace Engineering Biotechnical Engineering	*School Activities:* SkillsUSA, OPPD/NPPD PowerDrive, Math Club, Discover Engineering Day, Science Club, Science Fairs *Community Activities* : Participate in programs provided by the University of Nebraska: •Engineers Week •Academy of Excellence •MESA Program
	10	English/Language Arts II	Geometry	Chemistry	World History			
	11	English/Language Arts III	Algebra II	Physics	American History			
	12	English/Language Arts IV	Intro to Statistics Descrete Math Pre-Calc	AP Science	American Government or Economcis			

		COMMUNICATIONS	MATH/SCIENCE	SOCIAL SCI/ HUMANITIES	COMPUTER TECHNOLOGY	FOCUS COURSES					
SOUTHEAST COMMUNITY COLLEGE	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