



Program of Study
Career Field: Industrial, Manufacturing, and Engineering Systems
Career Cluster: Science, Technology, Engineering, and Mathematics
Career Pathway: Engineering and Technology



Western Nebraska Community College

DEGREE:
Pre- Engineering

<http://www.wncc.net/programs/majors/ENGR.html>

	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 and Cultures Physical Education Health Education Entrepreneurship CAD (Computer Aided Drafting) Engineering Technology Industrial Technology Information Technology App. I	Principles of Engineering <i>or</i> Intro to Engineering Design <i>Plus two from the following:</i> Computer Integrated Manufacturing Civil Engineering and Architecture Engineering Design and Development Aerospace Engineering Biotechnical Engineering	<i>School Activities:</i> SkillsUSA, OPPD/NPPD Power Drive, Math Club, Mathematic student competitions, Science Club, Science fairs <i>Community Activities:</i> Part-time employment available within this career cluster, Participate in a summer Learn-in Adventure			
	10	English/Language Arts II	Geometry	Biology	World History						
	11	English/Language Arts III	Algebra II	Chemistry	American History						
	12	English/Language Arts IV	Intro to Statistics Discrete Math Pre-Calc	Physics	American Government or Economics						
WNCC		COMMUNICATIONS	MATH	SCIENCE	SOCIAL SCI/HUMANITIES	DEGREE REQUIREMENTS	MAJOR COURSES				
	13	English Composition 1	College Algebra	General Biology	Any ANTH, ECON, GEOG, HIST, POLS, PSYC or SOCI course	2 Physical Activity classes	Calculus 1	Calculus 2	Calculus 3	Differential Equations	Graphics for Engineers
		Human Communications	Microcomputer Applications	General Zoology		Medical Terminology					
14	English Composition 2					4 Electives	Introduction to Engineering Design	Introduction to Circuits and Electronics	Physics 1 with Calculus	Physics 2 with Calculus	Programming and Problem Solving
							Engineering Statics				