

SECTION III: Programs of Study - Rockdale High School

Based on the Foundation High School Program, programs of study within a career cluster are intended to provide a helpful guide for the career-related electives in high school that will help prepare students for their career goals. This document is designed for students, parents, counselors, teachers, and administrators to make informed choices about the intended sequences for courses, the required courses for endorsements, and the recommended related courses to take. Programs of Study should also be tailored to fit the individual student career goals and needs.

Endorsement	Program of Study	Possible Careers	Freshman Year	Sophomore Year	Junior Year	Senior Year	Certifications
Career Cluster: AGRICULTURE, FOOD, & NATURAL RESOURCES							
<i>Business and Industry</i>	Agriculture Mechanics	Agricultural Machinist, Agricultural Fabricator, Heavy Equipment Operator, Agricultural Constructor	Principles of Agriculture, Food, & Natural Resources	Agricultural Mechanics and Metal Technologies	Agricultural Equipment Design and Fabrication	Agricultural Structures Design and Fabrication	OSHA 10 <small>(not on A-F list)</small>
	Animal Systems	Animal/Feed Sales, Ranch Manager, Vet Tech, Journalist, Ag Teacher, Extension Specialist	Principles of Agriculture, Food, & Natural Resources	Small Animal Management/ Equine Science	Livestock Production	Advanced Animal Science	<i>n/a</i>
	Plant Systems	Floral Designer, Golf Course Superintendent, Agronomist, Tree Farmer, Viticulturist, Landscape Architect	Principles of Agriculture, Food, & Natural Resources	Floral Design	Advanced Floral Design	Advanced Plant and Soil Science <i>and/or</i> Practicum in AFNR	TSFA Level 1 Floral TSFA Level 2 Floral
Career Cluster: ARCHITECTURE & CONSTRUCTION							
<i>Business and Industry</i>	Construction	Carpenter, Mason, Roofer, Building Inspector, Building Engineer, Electrician, Plumber	Principles of Skilled Trades	Construction Management I	Construction Management II <i>(block)</i>	Practicum in Construction <i>(block)</i>	OSHA 30
Career Cluster: ARTS, AUDIO-VISUAL TECHNOLOGY, AND COMMUNICATIONS							
<i>Business and Industry</i>	Graphic Design	Drafter, Product Designer, Multimedia Artist, Marketing Manager, Creative Director, Layout Designer, Illustrator	Principles of Arts, AV Technology, and Communications	Graphic Design & Illustration I	Graphic Design & Illustration II	Practicum in Graphic Design and Illustration	Adobe Certified Associate

Endorsement	Program of Study	Possible Careers	Freshman Year	Sophomore Year	Junior Year	Senior Year	Certifications
Career Cluster: BUSINESS & FINANCE							
<i>Business and Industry</i>	Entrepreneurship	Entrepreneur, Store Manager, Production Manager, Production Planner, Quality Control, Sales	Business Information Management I	Business Information Management II	Entrepreneurship	Practicum in Entrepreneurship	Microsoft Word Microsoft Excel Microsoft Access
<i>Business and Industry</i>	Business Finance	Financial Advisor, Public Accountant, Loan Officer, Banker, Portfolio Manager	Business Information Management I	Money Matters	Securities and Investments	Statistics and Business Decision Making	Microsoft Word Microsoft Excel Microsoft Access
Career Cluster: EDUCATION & TRAINING							
<i>Public Service</i>	Curriculum & Instruction	Primary Care, Elementary Teacher, Secondary Teacher, Instructional Specialist, Coach, Principal, Superintendent	Principles of Education and Training	Human Growth and Development	Instructional Practices <i>(block)</i>	Practicum in Education and Training <i>(block)</i>	Educational Aide I
Career Cluster: HEALTH SCIENCES							
<i>Public Service</i>	Medical Practitioners	Physician, Athletic Trainer, Dentist, Dietician, Chiropractor	Medical Terminology	Principles of Health Science	Pathophysiology	Anatomy & Physiology <i>and/or</i> Pharmacology	Pharmacy Technician
	Medical Assisting	Certified Medical Assistant, Registered Nurse, Emergency Medical Technician, Pharmacy Tech	Medical Terminology	Principles of Health Science	Health Science Theory	Practicum of Health Science <i>(block)</i> <i>or</i> Pharmacology	Certified Clinical Medical Assistant (CCMA) <i>and/or</i> Pharmacy Technician
Career Cluster: INFORMATION TECHNOLOGY							
<i>Business and Industry</i>	Computer Networking OR Cybersecurity	Software Engineer, Network Architects, Security Analysts, Support Specialists, Computer Programmers	Principles of Information Technology	Computer Maintenance	Networking	Practicum in Information Technology	CompTIA A+ CompTIA Network+

Endorsement	Program of Study	Possible Careers	Freshman Year	Sophomore Year	Junior Year	Senior Year	Certifications/ Courses
Career Cluster: MANUFACTURING							
<i>Business and Industry</i>	Metal Fabrication	Welder, Machinist, Production Manager, Industrial Engineer, Mechanical Technician	Principles of Skilled Trades	Introduction to Welding	Welding I (block)	Welding II (block)	AWS D9.1, D1.1 ASME IX
Career Cluster: SCIENCE, TECHNOLOGY, ENGINEERING, & MATH (STEM)							
<i>STEM</i>	Advanced Math	Software Developer, Civil Engineering, Architect, R&D, Robotics	<u>5 Mathematics credits:</u> 3 credits from Algebra I, Geometry, Algebra II; 2 additional to choose from Pre-Calculus, Statistics and Business Decision Making, Calculus, Advanced Quantitative Reasoning				BIM I, BIM II, Money Matters, Construction courses
	Advanced Science	Researcher, Biologist, Surgeon, Crime Scene Investigator, Computer Programmer	<u>5 Science credits:</u> 3 credits from Biology, Chemistry, and Physics; 2 more to choose from Anatomy and Physiology, Medical Microbiology, Pathophysiology, Environmental Systems, Advanced Animal Science				BIM I, BIM II, Money Matters, Livestock Production, Health Science
Career Cluster: COMPOSITE CLUSTERS							
<i>Multi-Disciplinary</i>	Advanced Placement	AP classes will help you toward your career goals: https://apstudent.collegeboard.org/exploreap/	<u>4 Advanced Placement credits:</u> Four advanced placement and/or dual-credit courses; choose from: English III AP, English IV AP, Calculus AP, Biology AP, US History Survey AP, Government AP, Macroeconomics AP, Spanish AP, Art IV AP, and Dual Credit courses				
<i>Arts and Humanities</i>	Fine Arts	Illustrator, Composer, Music Journalist, Studio Musician	Art, Band, or Drill Team I	Art, Band, or Drill Team II	Art, Band, or Drill Team III	Art, Band, or Drill Team IV	Jazz Band, Floral Design, Yearbook, BIM I, Money Matters, Entrepreneurship
	Publishing	Photographer, Digital Artist, Photo Retoucher, Technical Writer	Yearbook I	Yearbook II	Yearbook III	Yearbook IV	BIM I, Money Matters, Entrepreneurship, Career Prep
	Social Studies	Economic Developer, Legislator, Lawyer, Corrections Officer, Journalist	World Geography	World History	US History	Government/ Economics AND Sociology/Psychology	BIM I, Money Matters, Entrepreneurship, Career Prep
	World Languages	Bilingual Educator, Proofreader, Translator, FBI Agent, Court Interpreter	Spanish I	Spanish II	Spanish III (RAP)	Spanish IV (AP)	BIM I, Money Matters, Entrepreneurship