

16 Career Clusters / SCPS High School Offerings

16 Career Clusters offer students core academics, technical skills and employability skills that match their career interests. In addition to meeting requirements for Advanced Studies or Standard Diploma, students may consider the course options below, listed alphabetically. Some courses are offered on a limited basis or may require travel. Please refer to the High School Program of Studies for complete course descriptions, sequences and background. To plan your high school courses, please make an appointment with your school counselor.

CLUSTER	SAMPLE CAREERS	SCPS COURSE OPTIONS
Agriculture, Food & Natural Resources	<ul style="list-style-type: none"> • Agricultural Salesperson • Biologist • Botanist • Farmer • Food Technologist • Forest and Conservation Worker • Hazardous Materials Handler • Mining Machine Operator • Park Ranger • Soil and Water Specialist • Veterinarian • Water Treatment Plant Operator • Wildlife Manager or Technician 	<ul style="list-style-type: none"> • Calculus • Ecology • Environmental Science (AP) • Environmental Systems and Societies (IB) • Geology • Greenhouse Plant Production and Mgmt • Horticulture Sciences • Landscaping • Math Analysis • Oceanography • Small Engine Technology I and II • Statistics
Architecture & Construction	<ul style="list-style-type: none"> • Architect • Brick Mason • Building Inspector • Carpenter • Civil Engineer • Cost Estimator • Computer – Aided Drafter • Construction Equipment Operator • Construction Manager • Electrician • General Contractor • Heating, AC and Refrigeration Technician • Iron / Metalworker • Maintenance Planner/Scheduler • Plumber, Pipefitter • Painter • Sheet Metal Worker 	<ul style="list-style-type: none"> • Architectural Drawing and Design/Drafting • Building Trades • Cabinetmaking I, II and III • Calculus • Carpentry I, II and III • Construction Technology • Design Technology (IB) • Digital Visualization • Electricity I, II and III • Engineering Drawing/Drafting • Engineering Exploration/Advanced Engineering • Environmental Science (AP) • Environmental Systems and Societies (IB) • Geology • Geospatial Technology I and II • Intro to Engineering Design (and other Project Lead the Way Engineering courses) • Masonry I, II and III • Math Analysis • Physics • Principles of Technology I and II • Production Systems Technology • Statistics • Technical Drawing and Design/Drafting • Visual Arts

CLUSTER	SAMPLE CAREERS	SCPS COURSE OPTIONS
Arts, Audio-Visual Technology & Communications	<ul style="list-style-type: none"> • Actors • Audio-Visual Systems Technician • Broadcast and Sound Technician • Camera Operator/Editor • Dancer • Desktop Publishing Specialist • Editor • Lighting Designer • Musician • News Analyst, Reporter • Photographer • Printing Press Operator • Producer, Director • Talent Agent • Telecommunications Specialist • Writer and Author 	<ul style="list-style-type: none"> • Art History • Communications Systems • Creative Writing • Design Multimedia and Web Technologies; Advanced Design and Multimedia Technologies • Digital Visualization • Drama I, II, III and Advanced Drama • Graphic Imaging Technology I, II, and III • Imaging Technology • Instrumental Music, Music (IB) • Introduction to Fashion Careers • Introduction to Fashion Design and Marketing • Introduction to Interior Design • Journalism I, II, III, and IV • Photojournalism I, II, III, and IV • Technical Drawing and Design • Technical Theatre I, II, and III, Theater Arts (IB) • Television and Media Technology I, II, III and Apprenticeship • Visual Arts • Vocal Music (Chorus)
Business, Management & Administration	<ul style="list-style-type: none"> • Administrative Assistant • Bookkeeping Clerk • Budget Analysts • General Manager • Health Services Manager • Human Resources Manager • Meeting and Convention Planner • Public Relations Specialist • Purchasing Manager • Training Manager • Wholesale or Retail Buyer 	<ul style="list-style-type: none"> • Accounting; Advanced Accounting • Business and Management (IB) • Business Law • Business Management • Global Issues • Macroeconomics (AP) • Microeconomics (AP) • Principles of Business and Marketing • Statistics
Education & Training	<ul style="list-style-type: none"> • Audiologist • Curriculum Developer • Educational Psychologist • Elementary, Secondary Teacher • Librarian • Museum Curator • Post-secondary Instructor • Pre-School Teacher • Principal • School Counselor • Speech-Language Pathologist • Teacher Assistant 	<ul style="list-style-type: none"> • Early Childhood Education and Services I and II • Oral Communication • Psychology, Psychology (AP), Psychology (IB) • Sociology • Social and Cultural Anthropology (IB) • Teachers for Tomorrow
Finance	<ul style="list-style-type: none"> • Accountant • Actuary • Insurance or Claims Agent • Credit Analyst • Financial Counselor • Financial Planner • Loan Interviewer, Officer • Securities Sales Agent • Tax Preparer • Title Researcher and Examiner 	<ul style="list-style-type: none"> • Accounting; Advanced Accounting • Business Law • Business Management • Global Issues • Macroeconomics (AP) • Microeconomics (AP) • Principles of Business and Marketing • Statistics

CLUSTER	SAMPLE CAREERS	SCPS COURSE OPTIONS
Government & Public Administration	<ul style="list-style-type: none"> • Aid Worker • Cargo Inspector • Court Clerk • City Manager • Diplomatic Courier • Legislative Assistant • Military Intelligence Officer • Postal Worker • Real Estate Appraiser • Revenue Agent • Tax Examiner • Transportation Inspector • Urban Planner 	<ul style="list-style-type: none"> • Accounting; Advanced Accounting • Business Law • Business Management • Criminal Justice I and II • Global Issues • Human Geography (AP) • Air Force JROTC • Army JROTC • Navy JROTC • Macroeconomics (AP) • Microeconomics (AP) • Principles of Business and Marketing • Social and Cultural Anthropology (IB) • Statistics • U.S. Government (AP) • U.S. Government/Comparative Government (AP)
Health Science	<ul style="list-style-type: none"> • Athletic Trainer • Dental Hygienist • Dietician • Emergency Medical Technician • Health Information Technologist • Home Health Aide • Medical Assistant • Medical Lab Technologist • Nurse, Nurse Practitioner • Occupational Therapist • Optician • Pharmacist • Phlebotomist • Physical Therapist • Physician • Radiation Therapist • Respiratory Therapist • Surgeon • Ultrasound Technician 	<ul style="list-style-type: none"> • Anatomy and Physiology • Calculus • Chemistry • Emergency Medical Technician (EMT) • Global Issues • Health Assistant I • Introduction to Health and Medical Science • Licensed Practical Nurse (LPN) • Math Analysis • Medical Assistant I • Nurse Aide I and II (CNA) • Physics • Principles of Biomedical Sciences (and other Project Lead the Way Biomedical Sciences courses) • Psychology, Psychology (AP), Psychology (IB) • Social and Cultural Anthropology (IB) • Sociology • Sports Medicine I and II
Hospitality & Tourism	<ul style="list-style-type: none"> • Caterer • Chef, Pastry Chef • Cook • Exhibit Developer • Event Planner • Food and Beverage Manager • Front Desk Supervisor • Promoter • Recreation/Fitness Worker • Resort Manager • Ticket Agent • Tour Guide • Tourism Marketing Specialist • Travel Agent • Wait Staff 	<ul style="list-style-type: none"> • Culinary Arts I, II and III • Design Multimedia and Web Technologies; Advanced Design and Multimedia Technologies • Global Issues • Global Marketing and Commerce; Advanced Global Marketing and Commerce • Hotel Marketing • Internet Marketing • Marketing; Advanced Marketing • Principles of Business and Marketing • Sports and Fitness for Life I and II • Sports, Entertainment and Recreational (SER) Marketing; Advanced SER Marketing • Statistics

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Human Services	<ul style="list-style-type: none"> • Barber • Beautician, Nail Technician • Childcare Worker • Clergy, Minister • Coordinator of Volunteers • Funeral Director • Massage Therapist • Mental Health Counselor • Preschool Teacher • Psychologist • Residential Advisor • Social Worker 	<ul style="list-style-type: none"> • Cosmetology I and II • Early Childhood Education I and II • Global Issues • Oral Communication • Psychology, Psychology (AP), Psychology (IB) • Social and Cultural Anthropology (IB) • Sociology • Sports and Fitness for Life I and II • Statistics
Information Technology	<ul style="list-style-type: none"> • 3D Animator • Computer Programmer • Computer Support Specialist • Computer Technician • Cyber security Analyst • Database Administrator • Network Administrator • Software Developer • Systems Administrator • Web Designer 	<ul style="list-style-type: none"> • Calculus • Computer Networking Hardware Operations I and II • Computer Science (AP) • Design Multimedia and Web Technologies; Advanced Design Multimedia and Web Technologies • Geospatial Technology I and II • Information Technology Fundamentals • Math Analysis • Programming; Advanced Programming • Statistics
Law, Public Safety, Security & Corrections	<ul style="list-style-type: none"> • Animal Control Worker • Attorney • Corrections Officer • Detective, Investigator • Emergency Services Manager • Firefighter • Fish and Game Warden • Lawyer, Judge • Loss Prevention Specialist • Paralegal • Police Officer, Deputy • Probation Office • Security Guard 	<ul style="list-style-type: none"> • Business Law • Criminal Justice I and II • Elective Physical Education • Emergency Medical Technician (EMT) • Firefighting I and II • Global Issues • Sociology • Social and Cultural Anthropology (IB) • Statistics
Manufacturing	<ul style="list-style-type: none"> • Aircraft Assembler • Computer Control Programmer • Electronics Assembler • Engine/Machine Assembler • Industrial Engineer • Machinist, Millwright • Power Plant Operator • Production Planner • Production Supervisor • Purchasing Agent • Quality Engineer • Safety Coordinator • Shipbuilder • Tool and Die Maker • Welder 	<ul style="list-style-type: none"> • Calculus • Chemistry • Digital Visualization • Engineering Design and Drawing/Drafting • Engineering Exploration; Engineering Studies • Intro to Engineering Design (and other Project Lead the Way Engineering courses) • Manufacturing Systems; Adv. Manufacturing Systems • Math Analysis • Physics • Principles of Technology I and II • Production Systems • Programming; Advanced Programming • Statistics • Technical Drawing and Design/Drafting

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Marketing, Sales & Service	<ul style="list-style-type: none"> • Advertising Manager • Customer Service Representative • E-Commerce Director • Marketing and Sales Manager • Model, Promoter • Procurement Clerk • Product Planner • Real Estate Agent • Retail Sales Supervisor • Sales Representative • Small Business Owner • Store Manager • Technical Sales Specialist • Telemarketer • Wholesale/Retail Buyer 	<ul style="list-style-type: none"> • Business and Management (IB) • Business Law • Business Management • Design Multimedia and Web Technologies; Advanced Design and Multimedia Technologies • Fashion Marketing; Advanced Fashion Marketing • Global Issues • Hotel Marketing • Internet Marketing • Marketing; Advanced Marketing • Principles of Business and Marketing • Sports, Entertainment and Recreational (SER) Marketing; Advanced SER Marketing • Statistics
Science, Technology, Engineering & Mathematics	<ul style="list-style-type: none"> • Aerospace Engineer • Biologist, Biological Technician • Biomedical Engineer • Chemist, Chemical Technician • Civil Engineer • Computer Engineer • Drafter • Electrical/Electronics Engineer • Engineering Manager • Engineering Technician • Environmental Engineer • Industrial Engineer • Lab Technician • Mechanical Engineer • Mining Engineer • Nuclear Engineer • Quality-Control Scientist • Research Technician 	<ul style="list-style-type: none"> • Anatomy and Physiology • Calculus • Chemistry • Digital Visualization • Engineering Drawing and Design/Drafting • Environmental Science (AP) • Environmental Systems and Societies (IB) • Engineering Exploration; Engineering Studies • Geology • Geospatial Technology I & II • Introduction to Engineering Design (and other Project Lead the Way Engineering courses) • Math Analysis • Oceanography • Physics • Principles of Technology I and II • Programming; Advanced Programming • Statistics • Technical Drawing and Design/Drafting
Transportation, Distribution & Logistics	<ul style="list-style-type: none"> • Air Traffic Controller • Aircraft Pilot, Flight Engineer • Aircraft Service Technician • Automotive Technician • Auto Body Technician • Avionics Technician • Bus Driver • Diesel Engine Specialist • Flight Attendant • Freight Supervisor • Logistics Manager • Marine Technician • Safety Analyst • Shipping and Receiving Clerk • Transportation Supervisor • Truck Driver • Urban and Regional Planner 	<ul style="list-style-type: none"> • Calculus • Chemistry • Environmental Science (AP) • Environmental Systems and Societies (IB) • Automotive Body Technology I, II and III • Automotive Technology I, II and III • Engineering Design and Drawing/Drafting • Engineering Exploration; Engineering Studies • Global Issues • Introduction to Engineering Design (and other Project Lead the Way Engineering courses) • Math Analysis • Physics • Principles of Technology I and II • Small Engine Technology I and II • Statistics • Technical Drawing and Design/Drafting