



School to Career

San Dieguito Academy Career Pathways



Partnering with industry to provide
opportunities for students to gain
the skills needed for success in the
21st century

HOW TO USE THIS GUIDE

Career Pathways is designed as a working tool to assist you in selecting your classes. Six industry sectors provide you with a broad framework to build your course of study. These are divided into **pathways** that fit into each sector. **Concentration courses** in each pathway show you classes that are offered at SDA and directly relate to your area of interest. Some classes are offered every year; other classes are offered every other year. **Support classes** are also suggested that will add additional skills and career exploration. Classes that are college preparatory are noted with a "P." ROP (Regional Occupational Programs) classes offer students certification in that field and may result in community college credit.

In each pathway, some **related careers** are noted. Businesses that have committed to providing internships, mentors, or speakers are noted as **Community Partnerships**. These community partners provide multiple on-going learning opportunities for students and staff, and introduce students to the real world of work.

As you read through this guide, look for an area of study or career field you are curious about. Consider exploring a career by choosing courses that fit your skills, talents, and interests. See your counselor for additional information and suggestions.

INDUSTRY SECTORS

Arts, Media and Entertainment
Manufacturing and Product Development
Engineering and Design
Transportation
Information Technology
Finance and Business
Public Services
Hospitality, Tourism, and Recreation
Health Science and Medical Technology

No person shall, on the grounds of sex, race, color, national origin, or handicap, be excluded from participation in, be denied the benefits of, or be subject to discrimination under this program

INDUSTRY SECTOR

PUBLIC SERVICES

P=College Prep, HP=Honors, AP=Adv. Placement, ROP=Regional Occupational Program (Certificate of Competency)

PATHWAY	CONCENTRATION COURSES	SUGGESTED SUPPORT CLASSES	SOME RELATED CAREERS	COMMUNITY PARTNERSHIP
Legal/ Government	AP Comparative Politics Government, P AP Government AP European History Economics, P AP Economics ASB/Leadership PALs Sociology, P Psychology, P AP Psychology Social Justice Speech and Debate, P	Peer Tutoring World Languages, P Internship	Political Correspondent Legislator Psychologist Social Worker Probation Officer Corrections Officer Counselor Home Health Care Worker Criminalist Clergyman Legal Administrator Legal Assistant Paralegal Judge Lawyer Detective Court Clerk Fire Fighter Police Officer/Sheriff Human Resource Asst Interpreter Media Specialist	City of Encinitas Encinitas Rotary Club Encinitas Lions Club Next Path Consulting Green Career Pathways Moonlight Consultants
Education	Peer Tutoring Psychology, P AP Psychology Sociology, P English 9-12 PALs	Teacher Aide World Languages, P Internship Social Justice Speech and Debate, P	Pre-School Teacher Primary Teacher Secondary Teacher Adult Center Director Child Care Worker Vocational Teacher Teacher Aide Counselor Professor Principal Writer	Ocean Knoll Elementary School

HOSPITALITY, TOURISM AND RECREATION

PATHWAY	CONCENTRATION COURSES	SUGGESTED SUPPORT CLASSES	SOME RELATED CAREERS	COMMUNITY PARTNERSHIP
Food Service and Hospitality	Culinary Arts, ROP International Foods	World Languages, P Psychology, P, AP Sociology, P All Math Classes, P, HP Business Math English, P Chemistry, P, AP Year One PE/Health Speech and Debate, P Internship	Chef Personal Chef Restaurateur Dietician Hotel Management Customer Relations Catering Hospitality/Resorts	Pipes Café Lotus Cafe Tri Line Marketing Transworld Media Mira Costa College

INDUSTRY SECTOR

MANUFACTURING AND PRODUCT DEVELOPMENT ENGINEERING AND DESIGN TRANSPORTATION

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PATHWAY	CONCENTRATION COURSES	SUGGESTED SUPPORT CLASSES	SOME RELATED CAREERS	COMMUNITY PARTNERSHIP
Architecture	Architectural Design P Engineering Principles, ROP, P Machine Tool Technology Welding & Metal Fabrication ROP Woods I, II	Robotics & Engineering Technology Geometry, P, HP Algebra II, P, HP Statistics, P, AP AP Calculus Physics, P AP Physics AP Environmental Science World Languages, P Drawing and Design, P Chemistry, P, AP Internship	Architect Electrical Engineer CAD Drafter Chemical Engineer Mechanical Engineer Nuclear Technician Industrial Engineer Aviation/Pilot Machinist Civil Engineer Aerospace Engineer 3D Design/Printing	Steve Dalton, Architects Hyndman & Hyndman, Architects HMC Architects MVEI Architects CSOS Consulting Gilbrane Building SPAWAR Systems The Z Group Cumming Corp.
Welding & Metal Technology	Intro to Technology Machine Tool Technology Metals Technology II Welding & Metal Fabrication ROP Engineering Technology, ROP, P	Business Math Algebra I, P Geometry, P, HP Algebra II, P, HP Statistics, P AP Statistics World Language, P Internship Woods	Welder Civil Engineer Mechanical Engineer Machinist HVAC/Sheet Metal Structural Iron and Steel Metals Sculptor	Pipeline Products Matheson Tri Gas Prolla Weld & Drill US Iron Alpha Kat Welding Taylor Machine Pro Weld. George & Krough Noe Weld & Design Baker Iron Works
Building Trades and Construction	Intro to Technology Woods I Woods II Guitar Manufacturing, ROP Adv. Math for Decision Making, P Architectural Design, P Welding and Metal Fabrication, P	Engineering Technology, P Algebra I, P Geometry, P, HP Algebra II, P, HP Drawing and Design, P Statistics, P AP Statistics Sculpture, P World Languages, P Internship Metals	Cabinetmaker Surf Board Shaper Manufacturer Sculptor Bench Carpenter Carpenter Home Theater Construction Worker Cabinet installation Home Remodeler Structural Welder	Brown Construction Guitars in the Classroom Taylor Guitars Rick Turner Guitar Museum of Making Music James Hood Guitars Trueline Woodworks Dave Kaplan, Surf-dog
Automotive and Power Technology	Intro to Technology Auto Tech I Auto Engine Performance, ROP	Business Math Drawing and Design, P Digital Imaging AP Environmental Science Physics, P, AP Chemistry, P Geometry, P World Languages, P Engineering Principles, ROP, P Machine Tool Technology, ROP Welding/Metal Fabrication ROP Internship	Auto Mechanic Bus and Truck Mechanic Automobile Designer Aviation Mechanic Aviation/Pilot Air Traffic Controller Automotive Service Technician Auto Sales NASCAR	Discount Tire Keith's Automotive Snap On Tools SoCal Custom 4s Engineering
Engineering	Engineering Principles, ROP, P Engineering Design & Development, ROP Machine Tool Technology Metals Technology II Welding & Metal Fabrication Adv. Math for Decision Making, P	Architectural Design, P Geometry, P, HP Algebra II, P, HP Statistics, P AP Statistics AP Calculus Physics, P AP Physics Drawing and Design, P AP Environmental Science Woods I, II World Languages, P Internship	Mechanical Engineer Civil Engineer Aerospace Engineer Electrical Engineer Robotics/Automation Engineer Nuclear Technician Industrial Engineer Machinist Manufacturing Engineer	SAIC Asyntek ViaSat Batelle Qualcomm Nypro AFCEA Rancho Santa Fe Security

INDUSTRY SECTOR

ARTS, MEDIA, AND ENTERTAINMENT

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PATHWAY	CONCENTRATION COURSES	SUGGESTED SUPPORT CLASSES	SOME RELATED CAREERS	COMMUNITY PARTNERSHIP
Media Arts	Architectural Design P Digital Photography Photo Imaging, P, ROP Video and Film, P Intro to Technology Game Design, ROP Advanced Video Film, P Speech and Debate, P	Journalism, P Yearbook, P World Languages, P Psychology, P AP Psychology Woods Metals Screen Printing, ROP World History, AP US History, AP Advanced Journalism, P Internship	Graphic Designer Advertising/Marketing Film Maker Producer, Director Public Relations Director Surf Board Designer Critic Multimedia Animator Technical Writer Public Relations Specialist Publicist Broadcaster Amusement and Recreation Educator	CMG Calumet Photo-graphic Skateboarder Magazine
Design Arts	Drawing and Design, P Seminar in Art, P Cartooning Painting, P Sculpture, P AP Studio in Art Intro to Technology	Psychology, P AP Psychology Woods Metals Screen Printing, ROP World Languages, P Advanced Video Film, P Internship	Artist Painter Sculptor Animator Commercial Artist Museum/Gallery Curator Interior Designer Fashion Designer Educator	Rhino Art
Graphic Communica-tions	Screen Printing, ROP Intro to Technology Photo Imaging, P, ROP Digital Photography Photo Technology II, ROP	Seminar in Art, P Drawing & Design, P Journalism, P Advanced Journalism, P Yearbook, P World Languages, P Video and Film, P Internship	Photographer Video Journalist TV Production Advertising/Marketing Photojournalist Marketing Print Management, Sales, and Production Graphic Designer Educator	Bravo Shirt Co. Moonlight Printing Wreck'n Ball Enterprises McLogan Supply One Day Sign 101
Performing Arts	Video and Film, P Advanced Video Film Acting I, P Acting Advanced, P Dance Choreography P Symphonic Band, P Wind Ensemble, P Guitar MIDI Recording Arts Intro to Technology Drama Production, P Musical Theater, P	Speech and Debate, P Journalism, P Yearbook, P Psychology, P Dance, P Culinary Arts, ROP Guitar Manufacturing, ROP World Languages, P Yoga AP Psychology Advanced Journalism, P Internship	Actor Agent Musician Critic Choreographer Dancer Set Designer Public Relations Reporter Announcer Director Public Speaker Motivational Speaker Educator	Intrepid Shake-speare Company Coastal Community Concert Band Music Mart Studio West Toastmasters
Production and Managerial Arts	Screen Printing, ROP MIDI Recording Arts AP Music Theory TV Production Game Design, ROP Drama Production Musical Theater Production Technical Theater	World Languages, P All English classes Creative Writing, P Yearbook Journalism, P Advanced Journalism, P Ad. Math for Decision Making, P Internship	Director Lighting Technician Audio Design Audio Technician Stage Manager Costume Designer Lighting Designer Sound Designer Makeup Artist	Intrepid Shake-speare

INDUSTRY SECTOR

INFORMATION TECHNOLOGY FINANCE AND BUSINESS

P=College Prep, HP=Honors, AP=Adv. Placement, ROP=Regional Occupational Program (Certificate of Competency)

PATHWAY	CONCENTRATION COURSES	SUGGESTED SUPPORT CLASSES	SOME RELATED CAREERS	COMMUNITY PARTNERSHIP
Information Technology	Intro to Technology Digital Photography Adv. Math for Decision Making, P	Upper level math courses Statistics, P, AP Biology, P, AP Chemistry, P, AP MIDI World Languages, P English 9-12, P, AP Recording Arts Internship	Computer Programmer Telecommunications Engineer Systems Analyst Computer Scientist Data Technician Database Administrator Equipment/Repair Printing Press Operator Electronic Engineer Internet Technician Network Management Web Designer/Development Network and Computer Computer Forensics Graphics/Multi Media CAD Technician Computer Hardware Engineer Computer Support Specialist Marketing Director Administrative Assistant 3 D Design/Printing Educator	
Business	Economics, P AP Economics AP Comparative Politics Business Management and Ownership, ROP Business Math Advanced Math for Decision Making, P	Office Aide English 9-12 P, AP Statistics, P AP Statistics Culinary Arts Leadership World Languages, P Internship	Entrepreneur Business Manager Hotel Management Restaurant Management Accountant	Barney & Barney LLC Pipes Café Lotus Cafe, Tri Line Marketing Transworld Media The Skateboard Mag Rev Cult Marketing Youth Entrepreneurship Program Mira Costa College SDSU Union Bank of CA Wheat Inc. Moonlight Music, Rhino Art Supply Automatic Media Chelsea's Light Organization Rob Machado Foundation Hurley Inc.

INDUSTRY SECTOR

HEALTH SCIENCE AND MEDICAL TECHNOLOGY

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PATHWAY	CONCENTRATION COURSES	SUGGESTED SUPPORT CLASSES	SOME RELATED CAREERS	COMMUNITY PARTNERSHIP
Biotechnology	Healthcare Essentials ROP Intro to Biotechnology, P Biotechnology Applications Internship and Research	Biology, P AP Biology AP Environmental Science All Math classes, P, HP, AP World Languages, P Internship	Bio Technician Lab Assistant Medical Researcher Quality/Regulatory Affairs	Vertex Life Technologies BIOCOM SD Workforce Partnership Scripps Encinitas Genentech Miramar College Mira Costa College
Health Science and Medical Technology	Healthcare Essentials Biology, P AP Biology Chemistry, P AP Chemistry Year One PE Yoga Psychology, P AP Psychology Weight Training Introduction to Biotechnology Biotechnology Applications Adv. Math for Decision Making	Marine Biology Culinary Arts, ROP World Languages, P All Math Classes, P, HP Internship Social Justice	Physician Physician Assistant Research Scientist Nurse Chemist Medical Records Technician Respiratory Therapist Midwife Radiologist Pharmacist Medical Assistant Microbiologist Psychologist Occupational Therapist Physical Therapist Home Health Care Aide Dentist Dental Assistant Emergency Medical Technician Surgeon Orderly/ Attendant Psychiatrist Alternative Medicine Chiropractor Alternative Medicine Pharmacy Technician Dental Hygienist Medical Clinician Laboratory Technician Medical Services Manager Cardiovascular Technologist Nursing Aide Veterinarian	Scripps Encinitas Vertex BIOCOM RiverVest Lifesharing, (<i>a Donate Life Organization</i>) American Heart Association



SAN DIEGUITO ACADEMY *Community Partners*



Your company can also get involved in the Career Pathways program at SDA.

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