

# CAREER PATHWAYS AND CLUSTERS

The Career Cluster initiative is coordinated by the National Association of State Directors of Career Technical Education Consortium. Career Clusters provide 16 groupings of occupations and associated career pathways that help students explore similarly grouped career options. The Career Cluster is an organization tool that helps students navigate their way to greater success in college and career.

## CAREER PATHS

Each of the following career paths have corresponding career clusters with more specific career pathways to help students understand how similar careers may be grouped together.

- **Arts and Communications:** Designed to cultivate students' awareness, interpretation, application and production of visual, verbal and written work.
- **Business, Finance and Information Technology:** Designed to prepare students for careers in the world of business, finance and information services.
- **Engineering and Industrial Technology:** Designed to cultivate students' interest, awareness and application to areas related to technologies necessary to design, develop, install or maintain physical systems.
- **Human Services:** Designed to cultivate students' interests, skills and experience for employment in careers related to families and human needs.
- **Health Services:** Designed to cultivate students' interest in the life, physical and behavioral sciences. In addition, the planning, managing and providing of therapeutic services, diagnostic services, health information and biochemistry research development.
- **Natural Resources Agriculture:** Designed to cultivate students' interest in preserving our agriculture, food and natural resources.

## HEALTH SERVICES

- Health Sciences

Health Path

## ENGINEERING AND INDUSTRIAL TECHNOLOGY

- Architecture & Construction
- Manufacturing
- Transportation, Distribution & Logistics
- Science, Technology, Engineering & Mathematics

Building & Fixing Path

## Career Paths

## BUSINESS, FINANCE AND INFORMATION TECHNOLOGY

- Business Management & Administration
- Finance
- Information Technology
- Marketing

Business Path

## HUMAN SERVICES

- Education and Training
- Government & Public Administration
- Hospitality & Tourism
- Human Services
- Law, Public Safety, Corrections & Security

Helping Path

## NATURAL RESOURCES AGRICULTURE

- Agriculture, Food and Natural Resources

Nature Path

## ARTS AND COMMUNICATIONS

- Arts, A/V Technology & Communications

Creative Path

## CAREER CLUSTERS

### ARTS AND COMMUNICATIONS

Arts, A/V Technology and Communications		
<b>Description:</b>	<p>This cluster offers two different avenues of concentration. Careers in the Performing Arts, Visual Arts or certain aspects of Journalism, Broadcasting and Film require courses and activities that challenge students' creative talents.</p> <p>Careers in Audio-Video Communications Technology, Telecommunications or Printing Technology require strong backgrounds in computer and electronic-based technology and a solid foundation in math and science. All require an ability to effectively communicate in both oral and written form. In addition, the creative aspects of this cluster are rapidly merging with the technological, making it even more challenging. Preparation for careers in this cluster must begin in the early years and continue through high school, allowing students to gain experience in the performing and visual arts as well as in the academic foundations.</p>	
<b>Career Pathways:</b>	<p>Audio and Video Technology and Film Journalism and Broadcasting Performing Arts Printing Technology Telecommunications Visual Arts</p>	
<b>Suggested Elective Courses:</b>	<p>145 Speech 142 Creative Writing 251 Psychology 257 AP Psychology 260 IB Psychology 263 Sociology 709 Interior Design 711 Fashion Design &amp; Construction 776 Introduction to 2D Art 778 2D Studio Art 780 IB Visual Arts SL/HL-11 781 IB Visual Arts SL/HL-12 782 Introduction to Ceramics 784 Introduction to Sculpture 786 3D Studio Art 788 Digital Arts 1 788 Digital Arts 2: Design and Fabrication 802 Wind Ensemble 803 Symphonic Band</p>	<p>804 HN Jazz Ensemble 805 Jazz Lab Ensemble 807 Orchestra 808 Basic Guitar 809 Beginning Instrumental Studies 811 Music Theory and Technology 812 Music Tech &amp; Digital Production 813 AP Music Theory 814 Marching Band/Majorettes/Pantherettes/Color Guard 815 String Ensemble 965 Introduction to Video 968 Video and Media Communications 1 969 Video Media Essentials - Online 975 Multimedia Journalism 1 976 Multimedia Journalism 2 977 Multimedia Journalism – Print 900 IB Theory of Knowledge-11 903 IB Theory of Knowledge-12</p>

# BUSINESS, FINANCE AND INFORMATION TECHNOLOGY

Business Management and Administration		
<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Business Management and Administration. Learners need a solid background in math, science and technical skills. Education and training can be obtained in high schools, technical colleges/institutes, and universities.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare learners for professional and technical careers.</p> <p>The Business Management and Administration Cluster prepares learners for careers in planning, organizing, directing and evaluating business functions essential to efficient and productive business operations. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.</p>	
<b>Career Pathways:</b>	Administrative Support Business Information Management General Management Human Resources Management Operations Management	
<b>Suggested Elective Courses:</b>	145 Speech 239 Economics 245 AP Macro & Microeconomics 248 IB Economics 251 Psychology 257 AP Psychology 260 IB Psychology 272 21 <sup>st</sup> Century Global Affairs 320 College in HS Statistics	333 Calculus 334 CHS Business Calculus 336 AP Calculus AB 339 AP Calculus BC 342 AP Statistics 958 Financial Literacy 980 Integrated Studies: Service Learning & Social Entrepreneurship

Finance		
<b>Description:</b>	<p>There are thousands of challenging educational and training opportunities within the high-skilled world of Finance. Learners need a solid background in math, science and technical skills. Education and training can be obtained in high schools, technical colleges, two-year community colleges, four-year colleges, and career technical schools/ institutes.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare learners for professional and technical careers.</p> <p>The Finance Cluster prepares learners for careers in financial and investment planning, banking, insurance and business financial management. Career opportunities are available in every sector of the economy and require specific skills in organization, time management, customer service and communication.</p>	
<b>Career Pathways:</b>	Accounting Banking Services Business Finance Insurance Securities and Investments	
<b>Suggested Elective Courses:</b>	145 Speech 239 Economics 245 AP Macro & Microeconomics 248 IB Economics 272 21 <sup>st</sup> Century Global Affairs 320 College in HS Statistics 333 Calculus	334 CHS Business Calculus 336 AP Calculus AB 339 AP Calculus BC 342 AP Statistics 958 Financial Literacy

## Information Technology

<b>Description:</b>	<p>IT careers involve the design, development, support and management of hardware, software, multimedia and systems integration services. The IT industry is a dynamic and entrepreneurial working environment that has a revolutionary impact on the economy and society. In addition to careers in the IT industry, IT careers are available in every sector of the economy from Financial Services to Medical Services, from Business to Engineering and Environmental Services.</p> <p>Anyone preparing for an IT career should have a solid grounding in math and science.</p> <p>A career in IT is challenging and ever-changing. Those who pursue jobs in the IT sector will quickly discover ongoing opportunities to learn about and work with exciting new technologies that are transforming the world. IT education can be obtained in high schools, technical colleges/institutes and universities.</p>																				
<b>Career Pathways:</b>	<p>Information Support and Services  Network Systems  Programming and Software Development  Web and Digital Communications</p>																				
<b>Suggested Elective Courses:</b>	<table border="0"> <tr> <td>145 Speech</td><td>346 HN Math SL Analysis &amp; Approaches (1<sup>st</sup> Year)</td></tr> <tr> <td>216 AP World History</td><td>348 IB Math SL Analysis &amp; Approaches (2<sup>nd</sup> Year)</td></tr> <tr> <td>251 Psychology</td><td>349 HN IB Math SL Analysis &amp; Approaches (2<sup>nd</sup> year)</td></tr> <tr> <td>257 AP Psychology</td><td>354 IB Math HL Analysis &amp; Approaches (1<sup>st</sup> Year)</td></tr> <tr> <td>275 21<sup>st</sup> Century Global Affairs</td><td>357 IB Mathematics HL (2<sup>nd</sup> Year)</td></tr> <tr> <td>320 College in HS Statistics</td><td>953 AP Computer Science A</td></tr> <tr> <td>336 AP Calculus AB</td><td>956 IB Computer Science SL</td></tr> <tr> <td>339 AP Calculus BC</td><td>965 Introduction to Video</td></tr> <tr> <td>342 AP Statistics</td><td>968 Video and Media Communications 1</td></tr> <tr> <td>345 IB Math SL Analysis &amp; Approaches (1<sup>st</sup> Year)</td><td>969 Video Media Essentials - Online</td></tr> </table>	145 Speech	346 HN Math SL Analysis & Approaches (1 <sup>st</sup> Year)	216 AP World History	348 IB Math SL Analysis & Approaches (2 <sup>nd</sup> Year)	251 Psychology	349 HN IB Math SL Analysis & Approaches (2 <sup>nd</sup> year)	257 AP Psychology	354 IB Math HL Analysis & Approaches (1 <sup>st</sup> Year)	275 21 <sup>st</sup> Century Global Affairs	357 IB Mathematics HL (2 <sup>nd</sup> Year)	320 College in HS Statistics	953 AP Computer Science A	336 AP Calculus AB	956 IB Computer Science SL	339 AP Calculus BC	965 Introduction to Video	342 AP Statistics	968 Video and Media Communications 1	345 IB Math SL Analysis & Approaches (1 <sup>st</sup> Year)	969 Video Media Essentials - Online
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345 IB Math SL Analysis & Approaches (1 <sup>st</sup> Year)	969 Video Media Essentials - Online																				

Marketing			
<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Marketing. Learners need a solid background in communication, math and technical skills. Education and training can be obtained in high schools, technical colleges/institutes and universities.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare learners for professional and technical careers.</p> <p>This diverse Career Cluster prepares learners for careers in planning, managing and performing marketing activities to reach organizational objectives.</p>		
<b>Career Pathways:</b>	<p>Marketing Communications Marketing Management Marketing Research Merchandising Professional Sales</p>		
<b>Suggested Elective Courses:</b>	<p>145 Speech 239 Economics 245 AP Macro and Microeconomics 248 IB Economics 251 Psychology 257 AP Psychology 260 IB Psychology 263 Sociology 320 College in HS Statistics 333 Calculus 334 CHS Business Calculus 336 AP Calculus AB 339 AP Calculus BC 342 AP Statistics 500 Passport to French 501 MYP Passport to French 502 French 2 504 MYP French 2 508 506 French 3 509 MYP French 3 510 Honors French 4 512 Honors French 5</p>	<p>515 IB French 4 SL/HL-11 516 IB French 5 SL/HL-12 518 Passport to German 519 MYP Passport to German 520 German 2 522 MYP German 2 524 German 3 526 MYP German 3 528 Honors German 4 530 Honors German 5 533 IB German 4 SL/HL-11 534 IB German 5 SL/HL-12 536 Latin 1 538 Latin 2 540 Latin 3 542 Honors Latin 4 544 Passport to Spanish 545 MYP Passport to Spanish 548 Spanish 2 550 MYP Spanish 2 552 Spanish 3 554 MYP Spanish 3</p>	<p>556 Honors Spanish 4 558 Honors Spanish 5 560 IB Spanish 4 SL/HL-11 561 IB Spanish 5 SL/HL-12 564 Japanese 1 566 Japanese 2 558 Japanese 3 560 Chinese 1 571 Chinese 2 572 Chinese 3 573 HN Chinese 4 575 AP Chinese Language 576 Intercultural Studies I 577 Intercultural Studies II 900 IB Theory of Knowledge-11 903 IB Theory of Knowledge -12 958 Financial Literacy 965 Introduction to Video 968 Video and Media Communications 1 969 Video Media Essentials - Online 975 Multimedia Journalism 1 976 Multimedia Journalism 2 977 Multimedia Journalism – Print</p>

## ENGINEERING AND INDUSTRIAL TECHNOLOGY

Architecture and Construction	
<b>Description:</b>	<p>The Architecture and Construction Career Cluster is divided into three pathways. Pathways are grouped by the knowledge and skills required for occupations in these fields. Each pathway provides instruction as a basis for success in an array of careers and educational pursuits. This diverse Career Cluster prepares learners for careers in designing, planning, managing, building and maintaining the built environment. People employed in this cluster work on new structures, restorations, additions, alterations and repairs.</p>
<b>Career Pathways:</b>	<p>Construction Design/Pre-Construction Maintenance/Operations</p>
<b>Suggested Elective Courses:</b>	<p>145 Speech 724 Intro to Architecture 725 Advanced Architecture 735 Home Repair and Maintenance</p>

Manufacturing	
<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Manufacturing. Learners need a solid background in math, science and technical skills. Education and training can be obtained in high schools, technical colleges/institutes and universities.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare learners for professional and technical careers. Apprenticeship programs prepare learners for journey-worker status.</p> <p>Industry plays a major role in training and career development by supporting apprenticeships, training, joint industry/school programs and industry training leading to certification and college/university credit.</p> <p>This diverse Career Cluster prepares learners for careers in planning, managing, and performing the processing of materials into intermediate or final products. Careers also include related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.</p>
<b>Career Pathways:</b>	<p>Health, Safety and Environmental Assurance  Logistics and Inventory Control  Maintenance, Installation and Repair  Manufacturing Production Process Development  Production  Quality Assurance</p>
<b>Suggested Elective Courses:</b>	<p>145 Speech  724 Intro to Architecture  725 Advanced Architecture</p>

Transportation, Distribution and Logistics													
<b>Description:</b>	<p>There are many challenging educational opportunities within the high-skilled world of Transportation, Distribution and Logistics. Students can begin preparing in high school or middle school. Learners need a solid background in communications, math, science and technology.</p> <p>Along the way, career guidance professionals assist students in assessing their educational goals, interests, abilities and skills to ensure a fit to the cluster's many pathway options. Students can participate in coordinated workplace learning experiences such as site visits, job shadowing, and internships. If they choose, they may achieve valuable skill certifications while in high school that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare students for entry-level, professional and technical careers.</p> <p>This diverse Career Cluster exposes students to careers and businesses involved in the planning, management, and movement of people, materials, and products by road, air, rail and water. It also includes related professional and technical support services such as infrastructure planning and management, logistic services, and the maintenance of mobile equipment and facilities.</p>												
<b>Career Pathways:</b>	<p>Facility and Mobile Equipment Maintenance  Health, Safety and Environmental Management  Logistics Planning and Management Services  Sales and Service  Transportation Operations  Transportation Systems/Infrastructure Planning, Management and Regulation  Warehousing and Distribution Center Operations</p>												
<b>Suggested Elective Courses:</b>	<table> <tr> <td>145 Speech</td><td>334 CHS Business Calculus</td></tr> <tr> <td>239 Economics</td><td>336 AP Calculus AB</td></tr> <tr> <td>245 AP Macro and Microeconomics</td><td>339 AP Calculus BC</td></tr> <tr> <td>248 IB Economics</td><td>342 AP Statistics</td></tr> <tr> <td>320 College in HS Statistics</td><td></td></tr> <tr> <td>333 Calculus</td><td></td></tr> </table>	145 Speech	334 CHS Business Calculus	239 Economics	336 AP Calculus AB	245 AP Macro and Microeconomics	339 AP Calculus BC	248 IB Economics	342 AP Statistics	320 College in HS Statistics		333 Calculus	
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320 College in HS Statistics													
333 Calculus													



## Science, Technology, Engineering and Mathematics

<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Science, Technology, Engineering and Mathematics. Learners need a solid background in math, science and technical skills. Education and training can be obtained in high schools, technical colleges/institutes and universities.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare learners for professional and technical careers.</p> <p>A career in science, technology, engineering or mathematics is exciting, challenging, and ever-changing. Learners who pursue one of these fields will be involved in planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.</p>		
<b>Career Pathways:</b>	Engineering and Technology Science and Mathematics		
<b>Suggested Elective Courses:</b>	145 Speech 251 Psychology 257 AP Psychology 260 IB Psychology 336 AP Calculus AB 339 AP Calculus BC 342 AP Statistics 418 AP Biology 442 AP Chemistry 448 AP Environmental Science 451 Academic Physics 456 AP Physics 1 457 AP Physics C: Mechanics 458 AP Physics C: Electricity & Magnetism 459 IB Physics SL 460 IB Physics 1 HL-11 463 IB Physics 2 HL-12 437 Honors Organic Chemistry 439 Forensic Science 440 Honors Forensic Science 420 Honors Bioinformatics 469 Honors LabRATS 415 Honors Human Anatomy & Physiology 412 Honors Biology Topics 500 Passport to French	501 MYP Passport to French 502 French 2 504 MYP French 2 508 506 French 3 509 MYP French 3 510 Honors French 4 512 Honors French 5 515 IB French 4 SL/HL-11 516 IB French 5 SL/HL-12 518 Passport to German 519 MYP Passport to German 520 German 2 522 MYP German 2 524 German 3 526 MYP German 3 528 Honors German 4 530 Honors German 5 533 IB German 4 SL/HL-11 534 IB German 5 SL/HL-12 536 Latin 1 538 Latin 2 540 Latin 3 542 Honors Latin 4 544 Passport to Spanish 545 MYP Passport to Spanish 548 Spanish 2 550 MYP Spanish 2	552 Spanish 3 554 MYP Spanish 3 556 Honors Spanish 4 558 Honors Spanish 5 560 IB Spanish 4 SL/HL-11 561 IB Spanish 5 SL/HL-12 564 Japanese 1 566 Japanese 2 558 Japanese 3 560 Chinese 1 571 Chinese 2 572 Chinese 3 573 HN Chinese 4 575 AP Chinese Language 576 Intercultural Studies I 577 Intercultural Studies II 721 Technology Now & Tomorrow 724 Intro to Architecture 725 Advanced Architecture 729 Technology Design & Development 734 Honors STEAM Innovation and Consulting 900 IB Theory of Knowledge-11 903 IB Theory of Knowledge -12



## HUMAN SERVICES

Education and Training		
<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Education and Training. Learners need a solid background in academic, technical and presentation/facilitation skills. The educational background for a career in the education and training field can begin in high schools, technical colleges/institutes, and universities.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees that prepare learners for professional and technical careers.</p> <p>This diverse Career Cluster prepares learners for careers in planning, managing and providing education and training services, and related learning support services. Each year many learners train for careers in education and training in a variety of settings that offer academic instruction, career technical instruction, and other education and training services.</p>	
<b>Career Pathways:</b>	<p>Administration and Administrative Support Professional Support Services Teaching and Training</p>	
<b>Suggested Elective Courses:</b>	<p>145 Speech 251 Psychology 257 AP Psychology 260 IB Psychology 263 Sociology 272 21<sup>st</sup> Century Global Affairs</p>	<p>705 Child Care &amp; Development 1 706 Child Care &amp; Development 2 707 Child Care Growth &amp; Development 715 Practical Living 900 IB Theory of Knowledge -11 903 IB Theory of Knowledge -12</p>

Government and Public Administration		
<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Government and Public Administration. Learners need a solid background in social studies, political science, foreign language and history. Education and training can be obtained in high schools, technical colleges/institutes and universities.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees that prepare learners for professional and technical careers.</p> <p>Government affects everyone in countless ways. In a democratic society, government is the means of expressing the public will. In fact, virtually every occupation can be found within government. There are some activities unique to government. The federal government defends the public from foreign aggression; represents the nation's interests abroad; deliberates, passes and enforces laws; and administers many different programs. State and local governments pass laws or ordinances and provide vital services to constituents. There are many opportunities in government in every career area. The Government and Public Administration Career Cluster focuses on unique careers only available within government.</p>	
<b>Career Pathways:</b>	<p>Foreign Service Governance National Security Planning</p>	<p>Public Management and Administration Regulation Revenue and Taxation</p>
<b>Suggested Elective Courses:</b>	<p>145 Speech 216 AP World History 224 AP US History 227 AP Comparative Government &amp; Politics 228 AP US Government &amp; Politics 239 Economics 245 AP Macro and Microeconomics</p>	<p>248 IB Economics 269 American Law and Justice 272 21<sup>st</sup> Century Global Affairs 958 Financial Literacy 980 Integrated Studies: Service Learning &amp; Social Entrepreneurship</p>

## Hospitality and Tourism

<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Hospitality and Tourism. Learners need a solid background in math, science and technical skills. Education and training can be obtained in high schools, technical colleges/institutes and universities.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare learners for professional and technical careers.</p> <p>The Hospitality and Tourism Cluster prepares learners for careers in the management, marketing and operations of restaurants and other food services, lodging, attractions, recreational events and travel-related services. Hospitality operations are located in communities throughout the world.</p>		
<b>Career Pathways:</b>	<p>Lodging Recreation, Amusements and Attractions Restaurants and Food/Beverage Services Travel and Tourism</p>		
<b>Suggested Elective Courses:</b>	<table border="0" style="width: 100%;"> <tr> <td style="vertical-align: top; width: 50%;"> 145 Speech 216 AP World History 239 Economics 245 AP Macro and Microeconomics 248 IB Economics 251 Psychology 257 AP Psychology 260 IB Psychology 263 Sociology 500 Passport to French 501 MYP Passport to French 502 French 2 504 MYP French 2 508 506 French 3 509 MYP French 3 510 Honors French 4 512 Honors French 5 515 IB French 4 SL/HL-11 516 IB French 5 SL/HL-12 518 Passport to German 519 MYP Passport to German 520 German 2 522 MYP German 2 524 German 3 526 MYP German 3 528 Honors German 4 530 Honors German 5 533 IB German 4 SL/HL-11 534 IB German 5 SL/HL-12 </td><td style="vertical-align: top; width: 50%;"> 536 Latin 1 538 Latin 2 540 Latin 3 542 Honors Latin 4 544 Passport to Spanish 545 MYP Passport to Spanish 548 Spanish 2 FLES/MSE 550 MYP Spanish 2 FLES/MSE 552 Spanish 3 554 MYP Spanish 3 556 Honors Spanish 4 558 Honors Spanish 5 560 IB Spanish 4 SL/HL-11 561 IB Spanish 5 SL/HL-12 564 Japanese 1 566 Japanese 2 558 Japanese 3 560 Chinese 1 571 Chinese 2 572 Chinese 3 573 Honors Chinese 4 575 AP Chinese Language 576 Intercultural Studies I 577 Intercultural Studies II 700 Introduction to Culinary Skills 1 701 Introduction to Culinary Skills 1 (Self-Paced) 702 Introduction to Culinary Skills 2 703 Global Foods 704 Personal Nutrition </td></tr> </table>	145 Speech 216 AP World History 239 Economics 245 AP Macro and Microeconomics 248 IB Economics 251 Psychology 257 AP Psychology 260 IB Psychology 263 Sociology 500 Passport to French 501 MYP Passport to French 502 French 2 504 MYP French 2 508 506 French 3 509 MYP French 3 510 Honors French 4 512 Honors French 5 515 IB French 4 SL/HL-11 516 IB French 5 SL/HL-12 518 Passport to German 519 MYP Passport to German 520 German 2 522 MYP German 2 524 German 3 526 MYP German 3 528 Honors German 4 530 Honors German 5 533 IB German 4 SL/HL-11 534 IB German 5 SL/HL-12	536 Latin 1 538 Latin 2 540 Latin 3 542 Honors Latin 4 544 Passport to Spanish 545 MYP Passport to Spanish 548 Spanish 2 FLES/MSE 550 MYP Spanish 2 FLES/MSE 552 Spanish 3 554 MYP Spanish 3 556 Honors Spanish 4 558 Honors Spanish 5 560 IB Spanish 4 SL/HL-11 561 IB Spanish 5 SL/HL-12 564 Japanese 1 566 Japanese 2 558 Japanese 3 560 Chinese 1 571 Chinese 2 572 Chinese 3 573 Honors Chinese 4 575 AP Chinese Language 576 Intercultural Studies I 577 Intercultural Studies II 700 Introduction to Culinary Skills 1 701 Introduction to Culinary Skills 1 (Self-Paced) 702 Introduction to Culinary Skills 2 703 Global Foods 704 Personal Nutrition
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## Human Services

<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Human Services. Learners need a solid background in communication, science and technical skills. Education and training can be obtained in high schools, technical colleges/institutes and universities.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare learners for professional and technical careers.</p> <p>This diverse Career Cluster prepares individuals for employment in career pathways related to families and human needs</p>		
<b>Career Pathways:</b>	<p>Consumer Services Counseling and Mental Health Services Early Childhood Development and Services Family and Community Services Personal Care Services</p>		
<b>Suggested Elective Courses:</b>	<p>145 Speech 251 Psychology 257 AP Psychology 260 IB Psychology 263 Sociology 500 Passport to French 501 MYP Passport to French 502 French 2 504 MYP French 2 508 506 French 3 509 MYP French 3 510 Honors French 4 512 Honors French 5 515 IB French 4 SL/HL-11 516 IB French 5 SL/HL-12 518 Passport to German 519 MYP Passport to German 520 German 2 522 MYP German 2</p>	<p>524 German 3 526 MYP German 3 528 Honors German 4 530 Honors German 5 533 IB German 4 SL/HL-11 534 IB German 5 SL/HL-12 536 Latin 1 538 Latin 2 540 Latin 3 542 Honors Latin 4 544 Passport to Spanish 545 MYP Passport to Spanish 548 Spanish 2 550 MYP Spanish 2 552 Spanish 3 554 MYP Spanish 3 556 Honors Spanish 4 558 Honors Spanish 5</p>	<p>560 IB Spanish 4 SL/HL-11 561 IB Spanish 5 SL/HL-12 564 Japanese 1 566 Japanese 2 558 Japanese 3 560 Chinese 1 571 Chinese 2 572 Chinese 3 573 Honors Chinese 4 575 AP Chinese Language 576 Intercultural Studies I 577 Intercultural Studies II 737 Partners in Shop@USC 861 Partners in PE 958 Financial Literacy 980 Integrated Studies: Service Learning &amp; Social Entrepreneurship</p>

## Law, Public Safety, Corrections and Security

<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Law, Public Safety, Corrections and Security. Learners need a solid background in math, science and technical skills. Education and training can be obtained in high schools, technical colleges/institutes and universities. Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees that prepare learners for professional and technical careers. The Law, Public Safety, Corrections and Security Cluster helps prepare students for careers in planning, managing, and providing legal, public safety, protective services and homeland security, including professional and technical support services.</p>		
<b>Career Pathways:</b>	<p>Correction Services Emergency and Fire Management Services Law Enforcement Services Legal Services Security and Protective Services</p>		
<b>Suggested Elective Courses:</b>	<p>145 Speech 224 AP US History 227 AP Comparative Government &amp; Politics 228 AP US Government &amp; Politics 269 American Law &amp; Justice 439 Forensic Science</p>	<p>440 Honors Forensic Science 251 Psychology 257 AP Psychology 260 IB Psychology 263 Sociology</p>	

## HEALTH SERVICES

Health Sciences		
<b>Description:</b>	<p>There are many challenging educational and training opportunities within the high-skilled world of Health Science. Learners need a solid background in math, science, communications, and technical skills. Education and training can be obtained in high schools, technical colleges/institutes and universities.</p> <p>Along the way, career guidance professionals assist learners in assessing their educational goals, interests, abilities and skills to facilitate a good match to the cluster's many pathway options. Learners participate in relevant educational opportunities framed in the context of the cluster. They gain knowledge and skills through coordinated workplace learning experiences such as site visits, job shadowing and internships. If they choose, they may achieve valuable skill certifications that lead to employment. Colleges and universities offer advanced degrees and industry certifications that prepare learners for professional and technical careers.</p> <p>This Health Science Career Cluster orients students to careers that promote health, wellness, and diagnosis as well as treat injuries and diseases. Some of the careers involve working directly with people, while others involve research into diseases or collecting and formatting data and information. Work locations are varied and may be in hospitals, medical or dental offices or laboratories, cruise ships, medivac units, sports arenas, space centers, or within the community.</p>	
<b>Career Pathways:</b>	<p>Biotechnology Research and Development Diagnostic Services Health Informatics Support Services Therapeutic Services</p>	
<b>Suggested Elective Courses:</b>	<p>145 Speech 251 Psychology 257 AP Psychology 260 IB Psychology 320 College in HS Statistics 333 Calculus 334 CHS Business Calculus 336 AP Calculus AB 339 AP Calculus BC</p>	<p>342 AP Statistics 415 Honors Human Anatomy &amp; Physiology 420 Honors Bioinformatics 437 Honors Organic Chemistry 469 LabRATS 704 Personal Nutrition</p>

## NATURAL RESOURCES AGRICULTURE

Agricultural, Food and Natural Resources		
<b>Description:</b>	<p>This diverse Career Cluster prepares learners for careers in the planning, implementation, production, management, processing, and/or marketing of agricultural commodities and services, including food, fiber, wood products, natural resources, horticulture, and other plant and animal products. It also includes related professional, technical and educational services.</p>	
<b>Career Pathways:</b>	<p>Agribusiness Systems Animal Systems Environmental Service Systems Food Products &amp; Processing Systems Natural Resource Systems Plant Systems Power, Structural &amp; Technical Systems Architecture &amp; Construction</p>	
<b>Suggested Elective Courses:</b>	<p>145 Speech 239 Economics 245 AP Macro and Microeconomics 248 IB Economics 272 21st Century Global Affairs 448 AP Environmental Science 700 Introduction to Culinary Skills 1 701 Introduction to Culinary Skills 1 (Self-Paced) 702 Introduction to Culinary Skills 2 703 Global Foods 958 Financial Literacy</p>	

For more information please visit... [www.careertech.org/Career-Clusters](http://www.careertech.org/Career-Clusters)