

CAREER PATHWAYS



BUSINESS AND MARKETING



HEALTH SCIENCE AND TECHNOLOGY



INDUSTRIAL AND
ENGINEERING TECHNOLOGY

**A PERSONALIZED
PLAN FOR STUDENTS
GRADES 9-12**

2009-2010



HUMAN DEVELOPMENT
MANAGEMENT & SERVICES



PERSONAL AND
PROTECTIVE SERVICES

**HIDALGO
EARLY COLLEGE
HIGH SCHOOL**

**HIDALGO EARLY COLLEGE HIGH SCHOOL
CAREER PATHWAYS
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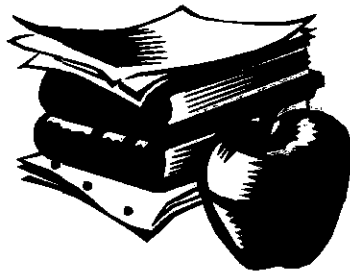
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The Hidalgo Independent School district does not discriminate on the basis of race, color, national origin, sex or handicap in providing education services. The principal has been designated to coordinate compliance with the nondiscrimination of requirements of Title IX and to coordinate compliance with the nondiscrimination requirements of Section 504 of the Rehabilitation Act. You are hereby notified that pursuant to the requirements of the Rehabilitation Act of 1973, this school district does not discriminate on the basis of handicap in any of the programs and services offered by the district. Qualified students with handicaps are entitled to be provided with regular or special education in related aides and services that are designed to meet individual's educational needs as adequately as the needs of non-handicapped persons are met. You may contact the school for more information and for the names of the person or persons in the district responsible for coordinating the district's efforts to comply with this law.

WHAT ARE MY OPTIONS FOR CAREER PREPARATION AFTER GRADUATION?

- Military
- Technical College
- Associate Degree (2 years of college)
- Bachelor's Degree (4 or 5 years of college)
- Master's Degree (6 years of college)
- Advanced Degree (i.e. PhD) (8 or more years of college)



To find out more:

- Visit your school and public libraries
- Visit or call possible colleges of interest
- Do research via the Internet
- Visit with people in careers you are interested
- Ask your guidance counselor for resources
- Ask teachers, parents, relatives or adult friends
- Attend Career Fairs at your school

EARN A DEGREE. GO FURTHER.

EARNINGS PER HOUR BY EDUCATION LEVEL:

Master's Degree	\$32.25
Bachelor's Degree	\$24.78
Associate Degree	\$17.30
HS Diploma	\$13.75 or less

EARNINGS PER WEEK BY EDUCATION LEVEL:

Master's Degree	\$1,290
Bachelor's Degree	\$991
Associate Degree	\$692
HS Diploma	\$550 or less

ANNUAL EARNINGS BY EDUCATION LEVEL:

Master's Degree	\$67,073
Bachelor's Degree	\$51,568
Associate Degree	\$36,021
HS Diploma	\$28,631 or less

LIFETIME EARNINGS BY EDUCATION LEVEL:

Master's Degree	\$2,500,000
Bachelor's Degree	\$2,100,000
Associate Degree	\$1,600,000
HS Diploma	\$1,200,000 or less

Source: Bureau of Labor Statistics, www.bls.gov

WHY COLLEGE?

- More job opportunities
- More money
- Greater knowledge
- Increased potential



WHERE DO I START?

Choose a Career

- Self-Assessment
- Investigate Your Career Choices
- Find a Career Match

Evaluate Your Educational Options (college, tech. school, military, etc.)

Make a Career Plan – Have a Plan A, but also a Plan B in case Plan A does not work.

HOT CAREERS:

Three of the fastest growing career fields are:

- Health Care
- Education
- Computers

Health Related Careers

Chiropractor
Dental Assistant/Hygienist
Emergency Med. Technician
Home Health Aide
LPN/RN
Medical Assistant
Medical Records Tech.
Occupational Therapist/Assistant
Pharmacist
Physical Therapist/Assistant
Respiratory Therapist
Speech Pathologist
Surgical Technician
Veterinarian

Service Related Careers

Cashier
Child Care Worker
Corrections Officer
Counselor
Human Services Worker
Police Officer
Receptionist
Restaurant Chef
Salesperson
Social Worker

Computer Careers

Computer Software Engineer
Comp. Support Specialist
Comp. Systems Manager
Database Administrator
Engineer
Systems Analyst

Other Hot Careers

Advertising/Promotions
Automotive Service Tech.
Animal Caretaker
Carpenter
College Professor
Desktop Publishing
Electrician
Paralegal
Secretary(Admin.)
Teacher
Welder

FUTURE JOBS IN THE VALLEY 2002 – 2012

Rio Grande Valley Top Growth Occupations

1. General Managers & Top Executives
2. Registered Nurses
3. Teachers – Secondary
4. Teachers – Special Education
5. Health Professionals/Technicians
6. Marketing/Sales Supervisors
7. Social Workers
8. Truck Drivers, Heavy
9. Teacher Aides/Education Assistants
10. Child Care Workers

Rio Grande Valley Targeted Occupations

High School Diploma On-the-Job Training

Compliance Officers
Insurance Sales Agents
Business Services Agents
Firstline Supervisors
Sales Representatives
Truck Drivers, Heavy
Telemarketing Sales Rep.
Emergency Medical Tech.
Secretaries
Carpenters

Under Two Years of Training or College

Management Support
Paralegal/Legal Assistant
Tool & Die Makers
Medical Lab Technician
Purchasing Agents
Radiological Technician
Welders & Cutters
Auto Mechanics
Machinists
Physical Therapy Assistant

Two Years of College (AAS)

Dental Hygienists
Telecommunications Tech.
Computer Programmers
Professional Technical Workers
Respiratory Therapists
Electrical/Electronic Tech.
Engineering Tech.
Licensed Vocational Nurse
Health Professional/Tech.
Marketing/Sales

Four Years of College (BA) or more

Pharmacists
Physical Therapists
Physician Assistant
Computer Systems Analysts
Registered Nurses
Construction Managers
Teachers – Secondary
Teachers – Special Education
Teachers – Elementary
Accountants & Auditors

Career choices: Circle 3

BUSINESS & MANAGEMENT

Accounting
Banking & Finance
Business Administration/Management
Business Data Processing
Computer Operation
Court Reporting
Fashion Merchandising
Hotel/Motel/Restaurant Mgt.
Human Resources Development
Insurance
International Business Mgt. Marketing and Research
Office Supervision & Mgt.
Real Estate
Transportation Mgt.
Travel Services & Tourism

INDUSTRIAL ENGINEERING

Aerospace Engineering
Agricultural Engineering
Bioengineering /Biomedical Eng.
Chemical Engineering
Civil Engineering
Computer Engineering
Computer Programming
Construction Engineering
Electrical/Electronics Engineering
Geological/Geophysical Eng.
Industrial Engineering
Interior Design
Landscape Architecture
Mechanical Engineering
Metallurgical Engineering
Mining/Mineral Eng.
Nuclear Engineering Petroleum Engineering

ENGINEERING TECHNICIANS

Architectural Design
Biomedical Equipment Tech.
Computer Tech.
Construction Tech.
Drafting
Electrical/Electronics
Electromechanical
HVAC Technicians
Instrumentation Tech.
Laser/Fiber Optic Tech.
Machine Tech.
Manufacturing Tech.
Mechanical Tech.
Plumber, Pipefitters
Welding Tech.

HEALTH & SCIENCES

Biochemistry/Biophysics
Biology
Botany
Chemistry
Chiropractic
Dental Assistant
Dental Hygienist
Dental Lab/Tech.
Dentistry
EMT./Paramedic
Health Care Administration
Medical Records
Med/Clinical Lab Tech.
Mental Health
Microbiology
Nuclear Medicine

Nurse Practitioner
Nursing
Occupational Therapy

Optometry
Pharmacy/Pharmacy Assist.
Physical Therapy/PT Assist.
Physician/Physician Assistant
Psychiatrist
Radiology Tech.
Respiratory Therapy
Speech Path./Audiology
Surgical Technicians
Veterinarian Assistant
Veterinary Medicine

HUMAN SERVICES

Child Care Workers
Culinary Arts/Chef
Education/Teacher/Coach
Dietician
Family/Consumer Mgt.
Fashion Design
Food Production & Mgt.
Funeral Services
Home Health Aides
Lawyer
Legal Assistant/Paralegal
Nutritionist
Psychologist
Social Worker
Textiles & Clothing

PERSONAL & PROTECTIVE

Cosmetologist
Criminal Justice/Criminology
Firefighter

Law enforcement & Admin.

Police, FBI, Border Patrol, US
Customs, DEA, TABC, DPS,
Sheriff, Coast guard, Park
Rangers & Wildlife
Management

ART/COMMUNICATION & MEDIA CAREERS

Advertising
Art
Cinematography/Film
Dance
Design, General
Drama/Theater Arts
Graphics/Commercial Arts
Journalism
Music
Photography
Public Relations
Radio/TV Broadcasting
Radio/TV Production

Other: _____

Other: _____

Other: _____



THE NEXT STEP

Write a plan of action to help yourself explore post-secondary school options and make the right choices. Do some research and answer the following questions. You may want to do this for several possible careers.

Resources: <http://www.techpreprgv.com/lmi>. Click on the *Occupations Profiles.

The job I want:

Training/education availability for this job:

Length of training/education for this job:

Cost of training/education for this job:

High School requirements prior to training/education for this job:

Future outlook for this job:

Salary:

General conditions of the work:

16 CAREER CLUSTERS & PATHWAYS
(IN ACCORDANCE WITH THE U.S. FEDERAL GUIDELINES)

1. **Agriculture, Food & Natural Resources:** Planning and managing agriculture, food, fiber, and natural resources systems. Includes production, financing, processing, marketing and distribution of agricultural products, farm production and supply, horticulture and landscaping services, and the use and conservation of land and water resources. It also includes development and maintenance of recreational resources and mining and extraction operations and related environmental management services.
2. **Architectural & Construction Technologies:** Designing, planning, managing, building and maintaining physical structures and the larger built environment including roadways and bridges, and industrial, commercial, and residential facilities and buildings.
3. **Arts & Communications Technologies:** Designing, producing, exhibiting, performing, writing and publishing multimedia content – including visual and performing arts and design, journalism, and entertainment services.
4. **Business Management & Administration:** Planning, managing and providing administrative support, information processing, accounting, and human resource management services and related management support services.
5. **Education & Training:** Planning, managing and providing education and training services, and related learning support services – including assessment and library and information services.
6. **Finance:** Planning, managing and providing banking, investment, financial planning, and insurance services.
7. **Government & Public Administration:** Planning, managing and providing government legislative and administrative and regulatory services and related general purpose government services at the federal, state and local levels.
8. **Health Sciences:** Planning, managing and providing diagnostic, therapeutic and information and environmental services in health care.
9. **Hospitality & Tourism:** Planning, managing and providing lodging, food, recreation, convention and tourism and related planning and support services such as travel-related services.
10. **Human Services:** Planning, managing and providing human services – including social and related community services.
11. **Information Technology:** Designing, developing, managing and supporting hardware, software, multimedia and systems integration services.
12. **Law, Public Safety & Security:** Planning, managing and providing judicial, legal, and protective services – including professional and technical support services in the fire protection and criminal justice systems.
13. **Manufacturing Technologies:** Planning, managing and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.
14. **Marketing, Sales & Service:** Planning, managing and performing wholesaling and retailing services and related marketing and distribution support services – including merchandise/product management and promotion.
15. **Science, Engineering & Mathematics:** Planning, managing and providing scientific research and professional and technical services (e.g., physical science, social science, engineering) including laboratory and testing services and research and development services.
16. **Transportation, Distribution & Logistics:** Planning, management and movement of people, materials and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services and facility maintenance.

BUSINESS

BUSINESS

Business and marketing careers may include financial and organizational activities. Some may involve positions of high responsibility in the organization, administration and efficient functioning of businesses. Business careers may involve sales and promotions as well as clerical and secretarial skills.

The business and marketing field requires the ability to work well with all kinds of people, to keep accurate records and to use math skills in dealing with money.

If you answer "yes" to most of these questions, this career pathway could be for you!



- Do you enjoy planning and directing the activities of an organization?
- Are you accurate in the work you do?
- Would you prefer working in a structured environment?
- Do you have the ability to think about and make decisions?
- Do you like to work with numbers?
- Would you enjoy working with people?
- Are you enthusiastic and self-confident?
- Do you like to be organized and keep records of things you do?
- Do you enjoy working with office equipment?

BUSINESS

Business Management & Administration
Finance
Marketing, Sales & Service

ENTRY LEVEL: High School, Apprenticeship or On-the-job Training

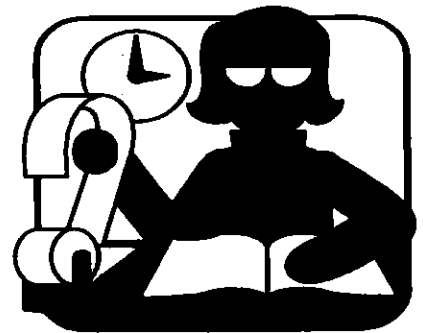
Administrative Assistant
Automobile Salesperson
Bookkeeper & Accounting Clerk
Cashier
Computer Operator
Court Clerk
Data Entry Clerk
General Office Clerk
Insurance Agent
Real Estate Sales Agent
Retail Salesperson
Teller
Word Processor

TECHNICAL: Technical Certificate, Associate Degree or Community College (1-2 yrs)

Clothes Designer
Credit Manager
Court Reporter
Interior Designer
Legal Secretary
Medical Transcriber
Paralegal
Purchasing Agent
Secretary
Wholesale Sales Representative

PROFESSIONAL: College, University or Graduate School (2 to 6 yrs or more)

Accountant
Advertising Agent
Auditor
Executive Secretary
Financial Manager
General Manager & Top Executive
Health Administrator
Human Resources Manager
Market Research Analyst
Pharmaceutical Sales Representative
Technical Sales Representative



Business, Marketing and Finance Course Sequence

Middle School	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Degreed Professional Careers (4 years or more)
Regular English or Enhanced 8 th English	English I or Pre-AP English I	English II or Pre AP English II	English III or AP English Lang III	English IV or AP English Lit IV	Accountant Financial Mgr Actuary General Mgr.
Regular 8 th Math Algebra I (8 th) Algebra 1 (7 th) Geom. (8)	Algebra I → Geometry or PAP → Algebra II or PAP →	Geometry or PAP → Algebra II or PAP → Pre-Cal or PAP →	Algebra II/ MMA → Pre-Cal or PAP → AP Cal (AB) →	Algebra II or Precal AP Calculus (AB) AP Statistics AP Calculus BC AP Computer Science	Auditor Executive Secretary Pharmaceutical Sales Rep
8 th Science RHSP → DAP →	Biology or PAP → Biology or PAP →	Chemistry or PAP → Chemistry or PAP →	Physics or IPC or Prin. Of Tech I → Physics or PAP →	Physics Anat.&Physiology, AP Env. Sci., AP Bio., AP Chem., AP Physics	Research Analyst Salary Projection: \$50,000 - \$140,000
8 th History	World Geography or PAP	World History or PAP	US History or AP	Government or AP Economics or AP	
Spanish 7 th & 8 th → AP Span. II → No Foreign Language →	Span. II or AP Span. II Span. Lit. PAP Spanish I →	Span. II or AP Sp. II →	Span. III/ AP Sp. III Span. III/ AP Sp. III Span. III/ AP Sp. III	Dual Enrollment or CATE	
Technology Applications	Teen Lead/CCO	Bus. Management/ Bus. Ownership or Intro. to Business/ Record keeping	Intro. to Comp. Sci. & Bus. Part I or BCIS I, International Business	Adv. Comp. Sci. & Bus. Part II or AP Computer Science or BCIS II, International Marketing	Administrative Asst. Auto Sales Court Reporter Data Entry Court Clerk Legal secretary
Career Investigation	Art I or Equivalent	Health /Comm. Application	Accounting I	Accounting II	Credit Mgr. Paralegal Office Clerk
	PE or Equivalent	PE/Elective	Dual Enrollment or CATE	Dual Enrollment or CATE	Purchasing Agent Retail Clerk Medical Transcriber Salary Projection: \$25,000 - \$40,000

Advanced Measures Options:

1. National Merit Commended or Higher
2. AP Test, Score 3 or higher
3. Tech Prep/Articulated Courses, 80% or better
4. College/University Course, B or Better
5. Original Research/Project

Pointers:

- *Participate in University Summer Camps
- *Take PSAT, PLAN (In 10th & 11th Grade)
- *Take SAT, ACT, THEA (Spring Semester of 10th grade)

Courses in bold may count for DAP measures.

LEGEND:

- RHSP-Recommended High School Program
- DAP- Distinguished Achievement Program
- CATE-Career and Technology Education

HEALTH SERVICES

HEALTH

Health science careers involve helping others. These careers include positions of high responsibility in caring for the personal needs and well-being of others. People who enter the health science field make important decisions using their own judgments. They also work with ideas and concepts that make advances possible in the quality of life.

If you answer “yes” to most of these questions, this selection may have a career for you!

- *Do you like helping others?*
- *Do you like science?*
- *Do you like to do research?*
- *Are you accurate and precise in things you do?*
- *Do you like to learn about new things?*
- *Do you like to care for people or animals who are sick or help them stay well?*
- *Are you interested in new diseases and in how the body works?*
- *Do you enjoy observing patients and looking for changes in how they are doing?*
- *Do you remain fairly calm in traumatic or emergency situations?*



HEALTH

Health Science

ENTRY LEVEL: High School, Apprenticeship or On-the-job Training

Ambulance Attendant/Driver
Dental Assistant
Dental Laboratory Technician
Dispensing Optician
Dialysis Technician
Electrocardiograph Technician
Home Health Aide
Optometry Assistant
Veterinarian Assistant Technician

TECHNICAL: Technical Certificate, Associate Degree or Community College (1-2 yrs)

Dental Hygienist
Dental Laboratory Technician
Electrocardiograph Technician
Emergency Medical Technician
Health Information Technician
Licensed Practical Nurse/Licensed Vocational Nurse
Medical Assistant
Nuclear Medical Technologist
Occupational Therapy Assistant
Optician
Physical Therapy Assistant
Radiology Technologist
Registered Nurse (ADN)
Respiratory Therapist
Surgical Technologist
Ultrasound Technologist
Veterinary Assistant/Technician

PROFESSIONAL: College, University or Graduate School (2-6 yrs or more)

Anesthesiologist	Pharmacist
Biochemist/Biophysicist	Physical Therapist
Chiropractor	Physician - General
Dentist	Physician - Specialist
Dietitian & Nutritionist	Physician Assistant
Medical & Health Services Mgr.	Podiatrist
Medical Examiner	Registered Nurse (BSN/MSN)
Neurologist	Surgeon
Nurse Practitioner	Veterinarian
Optometrist	



Health Occupations Course Sequence

Middle School	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Degreed Professional Careers (4 years or more)
Regular English or Enhanced 8 th English	English I or Pre-AP English I	English II or Pre AP English II	English III or AP English Lang III	English IV or AP English Lit IV	Anesthesiologist Optometrist Biochemist Pharmacist
Regular 8 th . Math Algebra I (8 th) Algebra I (7 th) Geom. (8)	Algebra I → Geometry or PAP → Algebra II or PAP →	Geometry or PAP → Algebra II or PAP → Pre-Cal or PAP →	Algebra II/ MMA → Pre-Cal or PAP → AP Cal (AB) →	Algebra II or Precal AP Calculus (AB) AP Statistics AP Calculus BC AP Computer Sci.	Chiropractor Phys. Therapist Dentist Physician Dietician RN (BSN/MSN)
8 th Science RHSP → DAP →	Biology or PAP → Biology or PAP →	Chemistry or PAP → Chemistry or PAP →	Physics or IPC or Prin. Of Tech I → Physics or PAP →	Physics Anat.&Physiology, AP Env.Science, AP Bio., AP Chem., AP Physics	Medical Examiner Surgeon Neurologist Veterinarian <i>Salary Projection:</i> \$45,000 - \$240,000
8 th History	World Geography or PAP	World History or PAP	US History or AP	Government or AP Economics or AP	
Spanish 7 th & 8 th → AP Spanish II → No Foreign Lang. →	Span II or AP Sp. II Span Lit PAP Span I →	Span II or AP Sp. II	Span III / AP Sp III Span III / AP Sp III Span III / AP Sp III	Dual Enrollment or CATE	Technical/Community College (1 – 3 years)
Technology Applications	Teen Lead/CCO	Health/Commun. Application	Intro. Comp. Sci. & Bus. Part I or BCIS I	Adv. Comp. Sci. & Bus. Part II or AP Computer Science or BCIS II	Dental Hygeinist Vet. Asst. Dental Asst. PT Asst. EMT OT Asst. ECG Tech. RN (ADN)
Career Investigation	Intro.to Health Sci./ Medical Terminology	Health Sci. Tech. I Mental Health/ Gerontology	HST II (PE Waiver) Cert.NurseAsst.I	HST III (3 blk) Cert.NurseAsst.II	LPN/LVN/CNA Med. Asst.
	PE or Equivalent	Art I or Equivalent	Dual Enrollment or CATE (CD/P for Parentg)	Dual Enrollment or CATE	Radiology Tech Surgical tech.
					<i>Salary Projection:</i> \$25,000 - \$40,000

Courses in bold may count for DAP measures

Advanced Measures Options:

1. National Merit Commended or Higher
2. AP Test, Score 3 or higher
3. Tech Prep/Articulated Courses, 80% or better
4. College/University Course, B or Better
5. Original Research/Project

Pointers:

- *Participate in University Summer Camps
- *Take PSAT, PLAN (In 10th & 11th Grade)
- *Take SAT, ACT, THEA (Spring Semester of 10th grade)

LEGEND:

- RHSP-Recommended High School Program
- DAP- Distinguished Achievement Program
- CATE-Career and Technology Education

Human Services

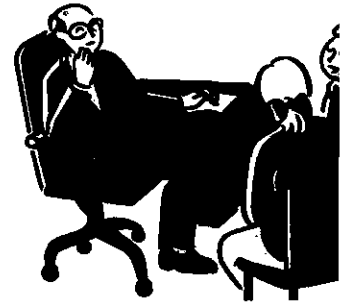
HUMAN SERVICES

Human Services careers involve working with people. These careers include education and related services, social and government services. Human services careers are the largest and most varied occupational area within our economy. For example, one can enter any one of these fields with minimum training (restaurant hostess, cook, lifeguard) or with one or more advanced degrees (child psychologist, teacher, coach).

These careers require knowledge and skills that are used by all people in their daily lives. Courses in this area will enhance your personal well-being, give you satisfaction of having helped others and can lead to an occupation that will always be in demand.

If you answer “yes” to most of these questions, this selection may have a career for you!

- Do you like working with people to solve problems?
- Do you like to plan and participate in activities?
- Can you make decisions quickly and fairly?
- Do you like physical work?
- Do you like helping and pleasing others?
- Are you friendly, open, outgoing, understanding and cooperative?
- Is it important to you to do something that makes things better for people?



HUMAN

Education & Training
Government & Public Administration
Hospitality & Tourism
Human Services

ENTRY LEVEL: High School, Apprenticeship or On-the-job Training

Actor
Barber
Child Care Worker
Construction & Building Inspector
Cook/Chef
Cosmetologist
Food & Beverage Service
Laundry & Dry Cleaning Operator
Library Technician
Meat Cutter
Quality Control Inspector
Waiter/Waitress



TECHNICAL: Technical Certificate, Associate Degree or Community College (1-2 yrs)

Dance/Choreographer
Flight Attendant
Food Service Manager
Funeral Director
Hotel/Restaurant Manager
Radio/TV Announcer & Newscaster
Recreation Assistant
Teacher Assistant
Travel Agent

PROFESSIONAL: College, University or Graduate School (2-6 yrs or more)

Accountant (Government)	Management Analyst
Art Director	Musician & Composer
City Manager	Media Specialist
Clergy	Psychologist
Coach/Sports Instructor	Public Administrator
Counselor	Radio/TV Newscaster
Economist	Recreation Program Director
Educational Administrator	Social Worker
Hotel/Restaurant Manager	Sports & Fitness Prog. Coordinator
Inspector & Compliance Officer	Substance Abuse Counselor
Interpreter & Translator	Teacher: Pre-School, Elementary, Secondary,
Journalist	Special Ed.
Librarian	Writer & Editor

Human Services Course Sequence

Middle School	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Degreed Professional Careers (4 years or more)
Regular English or Enhanced 8 th English	English I or Pre-AP English I	English II or Pre AP English II	English III or AP English Lang III	English IV or AP English Lit IV	City Manager Counselor Economist Educational Adm. Teacher
Regular 8 th Math Algebra I (8 th) Algebra I (7 th) Geom. (8)	Algebra I → Geometry or PAP → Algebra II or PAP →	Geometry or PAP → Algebra II or PAP → Pre-Cal or PAP →	Algebra II/ MMA → Pre-Cal or PAP → AP Cal (AB) →	Algebra II or Precal AP Calculus (AB) AP Statistics AP Calculus BC AP Computer Sci.	Interpreter Librarian Musician Psychologist Radio/TV
8 th Science RHSP → DAP →	Biology or PAP → Biology or PAP →	Chemistry or PAP → Chemistry or PAP →	Physics or IPC or Prin of Tech I → Physics or PAP →	Physics Anat. & Physiology AP Env. Science, AP Bio., AP Chem., AP Physics	Hotel/Rest Mgr. Journalist <i>Salary Projection:</i> \$28,000 - \$66,000
8 th History	World Geography or PAP	World History or PAP	US History or AP	Government or AP Economics or AP	
Spanish 7 th & 8 th AP Span. II No Foreign Language	Span II or AP Span. II Span Lit PAP Span I →	Span II or AP Sp. II	Span III /AP Sp. III Span III /AP Sp. III Span III /AP Sp. III	Accounting I	
Technology Applications	Teen Lead/CCO	Personal Family Development	Intro. Comp. Sci. & Bus. Part I or BCIS I	Adv. Comp. Sci. & Bus. Part II or AP Computer Science or BCIS II	Choreographer Flight Attendant Food Service Mgr. Funeral Director Teacher Asst. Travel Agent
Career Investigation	PE or Equivalent	Health /Comm. Application	Dual Enrollment or CATE	ESTA (P.E Waiver)	Actor Child Care Worker Cook/Chef
	Art I or Equivalent	PE/Record keeping	Fam. Health Needs/ Individual Fam Life., CD/P for Prtg, FST/NFS	Dual Enrollment or CATE	
					<i>Salary Projection:</i> \$25,000 - \$30,000

Advanced Measures Options:

1. National Merit Commended or Higher
2. AP Test, Score 3 or higher
3. Tech Prep/Articulated Courses, 80% or better
4. College/University Course, B or Better
5. Original Research/Project

Pointers:

- *Participate in University Summer Camps
- *Take PSAT, PLAN (In 10th & 11th Grade)
- *Take SAT, ACT, THEA (Spring Semester of 10th grade)

Courses in bold may count for DAP measures.

LEGEND:

- RHSP-Recommended High School Program
- DAP- Distinguished Achievement Program
- CATE-Career and Technology Education

INDUSTRIAL & ENGINEERING

INDUSTRIAL & ENGINEERING

Industrial and engineering technology careers involve working primarily with things: machines, tools and materials, such as food, wood, metal or plastics.

This is for persons interested in solving problems using technology. Industrial careers are vital to the efficient functioning of a society in the operation, maintenance and repair of its equipment and machinery. Engineering careers involve designing and planning things used in the technical fields.

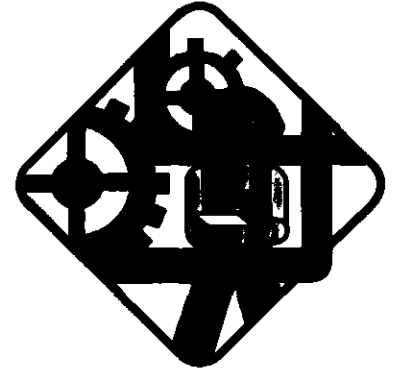
If you answer "yes" to most of these questions, this selection may have a career for you!



- Do you like to work with your hands?
- Do you like science and math?
- Do you like to fix or repair things?
- Do you like to design and create new things?
- Do you like to do detailed work?
- Are you mechanically inclined?
- Do you like to use your hands and build things?
- Are you curious about how things work?

INDUSTRIAL & ENGINEERING

Agriculture, Food & Natural Resources
Architectural & Construction Technologies
Arts & Communications Technologies
Information Technology
Manufacturing Technologies
Science, Engineering & Mathematics
Transportation, Distribution & Logistics



ENTRY LEVEL: High School, Apprenticeship or On-the-job Training

Ambulance Attendant/Driver	Highway Maintenance Worker
Apparel Worker	Machinist
Broadcast Technician	Nursery Worker
Camera Operator	Plumber & Pipe Fitter
Carpenter	Precision Assembler
Construction Worker	Printing Press Operator
Diesel Service Technician	Sheet Metal Worker
Drafting Assistant	Sound Engineer
Electrician	Tool & Die Maker
Farmer/Farm Manager	Truck Driver
Graphic Designer	Welder

TECHNICAL: Technical Certificate, Associate Degree or Community College (1-2 yrs)

Aircraft Mechanic	Engineering Tech.
Auto Collision	Farmer/Farm Manager
Automotive Mechanic	Instrumentation Tech.
Biomedical Equipment Technician	Laser Tech.
Commercial Artist	Photographer
Computer-Control Tool Programmer	Pilot
Computer Programmer	Production Coordinator
Construction & Building Inspector	Robotics Tech.
Drafter	Software Designer
Electronics Technician	Travel Agent
	Web Designer

PROFESSIONAL: College, University or Graduate School (2-6 yrs or more)

Aerospace/Aeronautical Engineer	Computer Programmer
Agricultural Engineer	Computer Software Engineer
Agricultural Scientist	Computer Systems Analyst
Air-Traffic Controller	Construction Engineer
Architectural Engineer	Electrical/Electronic Engineer
Biological Scientist	Environmental Scientist
Biomedical Engine	Fashion Designer
Cartoonist	Forester & Conservation Scientist
Chemical Engineer	Industrial Designer
Cinematographer	Interior Designer
Civil Engineer	Landscape Architect
Commercial Artist	Mechanical Engineer
Computer Engineer	Medical & Scientific Illustrator
Computer & Information Mgr.	Pilot

Industrial & Engineering Course Sequence

Middle School	9 th Grade	10 th Grade	11 th Grade	12 th Grade																																			
Regular English or Enhanced 8 th English	English I or Pre-AP English I	English II or Pre AP English II	English III or AP English Lang III	English IV or AP English Lit IV	<div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p style="text-align: center;">Degreed Professional Careers (4 years or more)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Aerospace Eng.</td> <td style="width: 50%;">Computer Eng.</td> </tr> <tr> <td>Air Traffic Cont.</td> <td>Electronic Eng.</td> </tr> <tr> <td>Architect</td> <td>Mechanical Eng.</td> </tr> <tr> <td>Biomedical Eng.</td> <td>Petroleum Eng.</td> </tr> <tr> <td>Chemical Eng.</td> <td>Pilot</td> </tr> <tr> <td>Civil Eng.</td> <td>Systems Analyst</td> </tr> <tr> <td>Commercial Artist</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;"><i>Salary Projection:</i> \$40,000 - \$100,000</td> </tr> </table> </div> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Technical/Community College (1 - 3 years)</p> <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Mechanics</td> <td style="width: 50%;">Carpenter</td> </tr> <tr> <td>Computer Prog.</td> <td>Electrician</td> </tr> <tr> <td>Drafter</td> <td>Graphic Des.</td> </tr> <tr> <td>Electronic Tech.</td> <td>Plumber</td> </tr> <tr> <td>Robotics Tech.</td> <td>Truck Driver</td> </tr> <tr> <td>Web Site Designer</td> <td></td> </tr> <tr> <td>Instrumentation Tech.</td> <td></td> </tr> <tr> <td>Biomedical Equipment Tech</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: center;"> <i>Salary Projection:</i> \$25,000 - \$40,000</td> </tr> </table> </div>	Aerospace Eng.	Computer Eng.	Air Traffic Cont.	Electronic Eng.	Architect	Mechanical Eng.	Biomedical Eng.	Petroleum Eng.	Chemical Eng.	Pilot	Civil Eng.	Systems Analyst	Commercial Artist		<i>Salary Projection:</i> \$40,000 - \$100,000		Mechanics	Carpenter	Computer Prog.	Electrician	Drafter	Graphic Des.	Electronic Tech.	Plumber	Robotics Tech.	Truck Driver	Web Site Designer		Instrumentation Tech.		Biomedical Equipment Tech		 <i>Salary Projection:</i> \$25,000 - \$40,000	
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8 th Science RHSP → DAP →	Biology or PAP → Biology or PAP →	Chemistry or PAP → Chemistry or PAP →	Physics or IPC or Prin.of Tech I → Physics or PAP →	Physics Anat. & Physiology, AP Env. Sci., AP Bio., AP Chem., AP Physics																																			
8 th History	World Geography or PAP	World History or PAP	US History or AP	Government or AP Economics or AP																																			
Spanish 7 th & 8 th AP Spanish II No Foreign Language	Span II or AP Span. II Span Lit PAP Span I →	Span II or AP Sp. II	Span III / AP Sp. III Span III / AP Sp. III Span III / AP Sp. III	Accounting I																																			
Technology Applications	Teen Lead/CCO	Intro. to Engineering	Intro. Comp.Sci.& Bus. Part I or BCIS I	Adv. Comp.Sci. & Bus. Part II or AP Computer Science or BCIS II																																			
Career Investigation	PE or Equivalent	Health /Comm. Application	Drafting	BIMM																																			
	Art I or Equivalent	PE /Elective	Metal Trades I HVAC I Auto Tech I Elect./Comp.Maint.I	Metal trades II HVAC II Auto Tech II Elect./Comp.Maint.II																																			

Advanced Measures Options:

1. National Merit Commended or Higher
2. AP Test, Score 3 or higher
3. Tech Prep/Articulated Courses, 80% or better
4. College/University Course, B or Better
5. Original Research/Project

Pointers:

- *Participate in University Summer Camps
- *Take PSAT, PLAN (In 10th & 11th Grade)
- *Take SAT, ACT, THEA (Spring Semester of 10th grade)

Courses in bold may count for DAP measures.

LEGEND:

- RHSP-Recommended High School Program
- DAP- Distinguished Achievement Program
- CATE-Career and Technology Education

PERSONAL & PROTECTIVE SERVICES

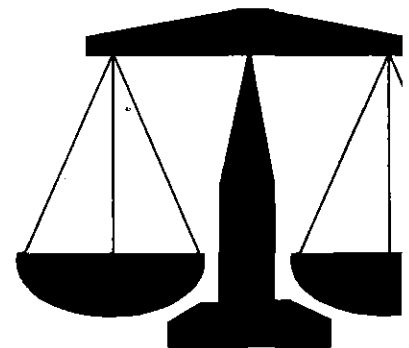
PERSONAL AND PROTECTIVE SERVICES

Personal and Protective Services is a rapidly growing career field. As the population increases, the demand for these services also increases. Careers in these areas are in high demand.

Protective services are those which provide for the safety and well-being of our citizens and our animal population, such as police officers, Homeland Security personnel, security guards. Personal services are those careers that provide a service to individuals, such as a lawyer, a cosmetologist, a pilot or probation officer.

If you answer "yes" to most of these questions, this selection may have a career for you!

- Do you enjoy physical activity?
- Can you follow procedures and orders?
- Are you willing to take risks?
- Can you be a team member?
- Are you concerned for people's well-being and safety?
- Do you like working with people in social, recreational and leisure environments?
- Are you responsible and want to help people?
- Do you like to travel?
- Do you like to work with your mind as well as your hands?
- Are you willing to relocate with your job?



LAW, PUBLIC SAFETY & SECURITY

Government & Public Administration

Law, Public Safety & Security

ENTRY LEVEL: High School, apprenticeship or On-the-job Training

Bailiff

Correction Officer

Dispatcher

Fire Investigators

Guard

TECHNICAL: Technical Certificate, Associate Degree or Community College (1-2 yrs)

Firefighter

Paralegal & Legal Assistant

Police Officer

Sheriff

PROFESSIONAL: College, University or Graduate School (2-6 yrs or more)

Accountant (Government)

Court Administrator

Crime Scene Investigator

Criminologist/Criminal Justice

Federal Law Enforcement Agent (FBI, DEA, CIA)

Fish & Game Warden

Forensic Scientist

Judge

Lawyer: Criminal, Corporate, Insurance, Patent, Probate, Real Estate, Tax

Park Ranger

Parole & Probation Officer

U.S. Customs & Border Protection (Homeland Security)



Personal and Protective Services Course Sequence

Middle School	9 th Grade	10 th Grade	11 th Grade	12 th Grade	Degreed Professional Careers (4 years or more)
Regular English or Enhanced 8 th English	English I or Pre-AP English I	English II or Pre AP English II	English III or AP English Lang III	English IV or AP English Lit IV	Accountant Judge Court Adm. Lawyer Criminologist Park Ranger District Attorney Parole Off. FBI, DEA, CIA Probation Off.
Regular 8 th Math Algebra I (8 th) Algebra I (7 th) Geom. (8)	Algebra I → Geometry or PAP → Algebra II or PAP →	Geometry or PAP → Algebra II or PAP → Pre-Cal or PAP →	Algebra II/ MMA → Pre-Cal or PAP → AP Cal (AB) →	Algebra II or Precal AP Calculus (AB) AP Statistics AP Calculus BC AP Comp. Sci.	
8 th Science RHSP → DAP →	Biology or PAP → Biology or PAP →	Chem. or PAP → Chem. or PAP →	Physics or IPC or Prin. Of Tech I → Physics or PAP →	Physics Anat. & Physiology, AP Env. Science, AP Bio., AP Chem., AP Physics	Fish/Game Warden Border Patrol Forensic Scientist US Customs <i>Salary Projection:</i> \$40,000 - \$124,000
8 th History	World Geography or PAP	World History or PAP	US History or AP	Government or AP Economics or AP	
Spanish 7 th & 8 th → AP Spanish II → No Foreign Lang. →	Span II or AP Span. II Span Lit PAP Span I →	Span II or AP Sp. II	Span III / AP Sp III Span III / AP Sp III Span III / AP Sp III	Dual Enrollment or CATE	Technical/Community College (1 – 3 years)
Technology Applications	Teen Lead/CCO	PE/Record keeping	Intro.Comp. Sci. & Bus. Part I or BCIS I	Adv. Comp. Sci. & Bus. Part II or AP Computer Science or BCIS II	
Career Investigation	PE or Equivalent	Health /Comm. Application	Dual Enrollment or Accounting I	Dual Enrollment or Accounting II	Firefighter Fire Investigator Paralegal Guard Legal Assistant Police Officer Sheriff Bailiff Correction Off. Dispatcher <i>Salary Projection:</i> \$25,000 - \$40,000
	Art I or Equivalent	Correctional Systems & Practices	TICJ	Fundamentals of Criminal Law	

Courses in bold may count for DAP measures.

LEGEND:
 RHSP-Recommended High School Program
 DAP- Distinguished Achievement Program
 CATE-Career and Technology Education

Advanced Measures Options:

1. National Merit Commended or Higher
2. AP Test, Score 3 or higher
3. Tech Prep/Articulated Courses, 80% or better
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Pointers:

- *Participate in University Summer Camps
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Hidalgo Early College High School
Graduation Requirements
For Students who entered Grade 9 in 2007-08 or later
(Revised Summer '09)

Discipline	Recommended High School Program (27 Credits)	Distinguished Achievement Program (27 Credits)
English Language Arts	4	4
Mathematics	4	4
Science	4	4
Social Studies	3.5	3.5
Economics	0.5	0.5
Physical Education/Equiv.	1	1.5
Health	0	0.5
Foreign Language	2	3
Fine Art	1	1
Communication Application	0.5	0.5
Technology Applications	0	1
Elective Courses	6.5	3.5
TOTAL GRADUATION REQUIREMENTS	27	27
Advanced Measures	0	4

* TAKS Exit Level Test must be passed in addition to the 27 credits.

Hidalgo High School 200___-200___ CREDIT CHECK

Name: _____
ID Number: _____

Career Pathway: _____
Career Major: _____

Graduation Plan: _____ Number of Credits: _____ College Hours: _____ SAT: _____
 Post Graduation: _____ Years of Completion: _____ Submitted Transcript: _____ ACT: _____
 Prospective Graduate: _____ Class Rank: _____ THEA: R___ M___ W___ FASFA: _____
 GT:___ SE:___ At Risk:___ Migrant:___ LEP:___ Applied to College/University: _____

Graduation Requirements:

9th	S1	S2	CR	10th	S1	S2	CR	11th	S1	S2	CR	12th	S1	S2	CR
English I				English II				English III				English IV			
Algebra I				Geometry				Algebra II				Pre-Calculus			
Biology				Chemistry				Physics/IPC				Science			
World Geo.				World History				U.S. Hist.				Economics/Govt.			

PE. 1.5			
Health 0.5			
Comm. App. 0.5			
BCIS I 1.0			
Keyboarding 0.5			
Fine Arts 1.0			
Spanish I			
Spanish II			
Spanish III			

Additional Components: 4.5/3.5

Electives:	CR	Electives:	CR
1 _____	_____	7 _____	_____
2 _____	_____	8 _____	_____
3 _____	_____	9 _____	_____
4 _____	_____	10 _____	_____
5 _____	_____	11 _____	_____
6 _____	_____	12 _____	_____

TAKS:	ELA	
	M	
	SS	
	Sci	

Distinguished Achievement Program Extra Measures: _____ Original research project (Maximum of 2)
 _____ Advanced Placement Exam (3 or higher) (Junior Year Results)
 _____ PSAT Score ranking student as: Commended Student, National Hispanic Scholar
 (College Board), or National Achievement Program for Outstanding Negro
 Student (NMSC) (All recognitions count as only one measure) (Junior Year Testing)
 _____ College courses grade of 3.0 or higher including tech prep programs (Junior or Senior Year)

Notes: _____

Date Reviewed: _____ Student's Signature: _____ Counselor's Signature: _____

Hidalgo Early College High School Educational Plan

Name _____ ID# _____ Grade _____

This is a tentative plan to help give you, your parents, and your school some direction as you progress through high school. As you fill in your plan, remember that it is only a plan and should be revisited as needed to ensure your educational success throughout your four years in high school. Plan carefully and select academic courses and electives that will support your interests, career goals, and post-high school plans.

Career Pathway: Business Health Sciences Industrial/Engineering Human Services Personal & Protective Services

Career Major _____ **Graduation Plan:** Minimum Recommended Distinguished Achievement Plan

Credits Required for Promotion to Next Grade: 10th- 5 credits 11th- 12 credits 12th- 18 credits **Graduation:** 27 credits

Post-Secondary Plan: Two-Year College Four-Year College Military Technical Work Force

College of Choice 1. _____ 2. _____ 3. _____

Tech Prep: Yes (Must complete two or more state-approved CATE Courses) No

Student's Signature: _____ **Parent's Signature:** _____

Grade 9 ___ - ___			Grade 10 ___ - ___			Grade 11 ___ - ___			Grade 12 ___ - ___		
Subject	Sem 1	Sem 2	Subject	Sem 1	Sem 2	Subject	Sem 1	Sem 2	Subject	Sem 1	Sem 2
English I			English II			English III			English IV		
Algebra I			Geometry			Algebra II			Pre-Calculus		
Biology			Chemistry			Physics/IPC/P Tech			4 th Science		
World Geo.			World History			U.S. History			Govt./Eco.		
Total Credits for 9th Year			Total Credits for 10th Year			Total Credits for 11th Year			Total Credits for 12th Year		

The Hidalgo ISD does not discriminate on the basis of race, color, national origin, sex, or handicap in providing education services. The principal has been designated to coordinate compliance with the nondiscrimination of requirements of Title IX and to coordinate compliance with nondiscrimination requirements of Section 504 of the Rehabilitation Act.

RESOURCES

General College Information

- www.collegenet.com
- www.mapping-your-future.org
- www.petersons.com
- www.collegeboard.com
- www.act.org/discover/login

College Testing and Preparation

- www.collegeboard.com
- www.act.org
- www.petersons.com

Scholarship Web Sites

- www.gocollege.com
- www.college-scholarships.com
- www.fastweb.com
- www.scholarshipexperts.com
- www.collegefunds.net
- www.act.org

College Searches

- www.globalcomputing.com
- www.allaboutcollege.com
- www.act.org/discover/login

Student Financial Information

- www.studentaid.ed.gov
- www.fafsa.ed.gov
- www.salliemae.com
- www.studentloan.com
- www.nelliemae.com