

**WATKINS MEMORIAL HIGH  
SCHOOL  
CAREER PATHWAYS RESOURCE**

***A CAREER DEVELOPMENT PLANNING TOOL  
FOR THE HIGH SCHOOL COURSE OFFERINGS  
SELECTION PROCESS***

**THE RECOMMENDED COURSES FOR EACH HIGH  
SCHOOL GRADE LEVEL ARE ORGANIZED BY CAREER  
CLUSTERS**

**ARTS AND COMMUNICATIONS  
BUSINESS AND MARKETING  
INDUSTRIAL AND ENGINEERING SYSTEMS  
ENVIRONMENTAL AND AGRICULTURE SYSTEMS  
HEALTH SERVICES  
HUMAN RESOURCES AND SERVICES  
INFORMATION TECHNOLOGY**

# “Begin with the end in mind.”

-Steven Covey

Seven career clusters have been identified to make the process of choosing a career and planning for future careers easier for students. The seven career clusters and logos are:



Arts and Communications



Environmental and Agricultural Systems



Business and Marketing



Health Services



Industrial and Engineering Systems



Human Resources and Services



Information Technology

All occupations fall under these broad career cluster headings. These seven career clusters have different levels of employment, based most frequently, on education and/or training. Professional careers require education or specialized training, usually a four-year college degree or higher. Technical careers normally require a two-year degree or specialized training. Entry-level careers usually require only a high school diploma with a limited amount of additional training. The list of careers on the following pages is a partial listing obtained from OCIS (Ohio Career Information System). It is a representative list only. For a complete listing of potential careers, see your school counselor.

Career Pathways are created to provide a map to help students pursue relevant coursework for their chosen career cluster. The following pages identify a recommended schedule and electives directly related to the career cluster. The map can help you prepare to take advantage of a tremendous number of opportunities in your career cluster.



# HEALTH SERVICES CAREER PATHWAY OCCUPATIONS

## PROFESSIONAL CAREERS

Athletic Trainer	Audiologist	Dentist
Speech Pathologist	Chiropractor	Dietician
Embalmer	Funeral Director	OB/GYN Doctor
Health Service Administrator	Internist	Optician
Pharmacist	Nurse Practitioner	Registered Nurse
Physical Therapist	Pediatrician	Podiatrist
Psychiatrist	Surgeon	Nutritionist
Biologist	Physician	Health Educator
Medical Researcher	Research Scientist	Veterinarian

## TECHNICAL CAREERS

Medical Assistant	Medical Records Tech	EKG Tech
Dental Hygienist	Dental Lab Tech	EMT
Medical Secretary	Surgical Tech	Radiological Tech
Physical Therapist Asst	Nursing Asst	Psychiatric Aide
Health Service Administrator	Respiratory Therapy Asst	EEG Tech

## ENTRY-LEVEL CAREERS

Medical Records Clerk	Home Health Assistant	Nursing Home Assistant
Nursing Assistant	Animal Caretaker	Military
Medical Receptionist	Dental Assistant	Pharmacy Assistant
State Tested Nurses Aide	Phlebotomist	Lab Manager
Dietary Aide	Orderly	Office Clerk



# HEALTH SERVICES CAREER CLUSTER



## RECOMMENDED COURSES FOR EACH GRADE LEVEL

9 <sup>TH</sup>	10 <sup>TH</sup>	11 <sup>TH</sup>	12 <sup>TH</sup>	
<b>SELECT ONE</b> ENGLISH 9 COLLEGE PREP ENGLISH 9	<b>SELECT ONE</b> ENGLISH 10 COLLEGE PREP ENGLISH 10	ENGLISH 11 OR AP LIT/COMP	<b>SELECT TWO SEMESTER ENGLISHES</b> OR COLLEGE ENGLISH 12 OR AP ENGLISH LANG/COMP	<b>4 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> ALGEBRA I GEOMETRY HONORS GEOMETRY	<b>SELECT ONE</b> GEOMETRY C GEOMETRY ALGEBRA 2 HONORS ALGEBRA 2	<b>SELECT ONE</b> ALGEBRA 1-B GEOMETRY ALGEBRA 2 PRE-CALCULUS HONORS PRE-CAL INTRO TO STATISTICS AP STATISTICS	<b>SELECT ONE</b> ALGEBRA 2 ADVANCED MATH AP CALCULUS (AB) INTRO TO STATISTICS AP STATISTICS	<b>3 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> PHYSICAL SCIENCE *HONORS PHYSICAL SCIENCE	<b>SELECT ONE</b> *BIOLOGY 10	<b>SELECT ONE</b> *ANATOMY/PHYSIOLOGY *BIOLOGY 2 ENVIRONMENTAL SCI. CHEMISTRY AP CHEMISTRY PHYSICS AMERICAN CIVIL WAR *SOCIOLOGY *PSYCHOLOGY ECONOMICS INT'L RELS/FOR. POLICY	<b>SELECT ONE</b> *ANATOMY/PHYSIOLOGY *BIOLOGY 2 ENVIRONMENTAL SCI. *CHEMISTRY AP CHEMISTRY PHYSICS +AMER GOVERNMENT AMERICAN CIVIL WAR *SOCIOLOGY *PSYCHOLOGY ECONOMICS INT'L RELS/FOR. POLICY	<b>3 UNITS NEEDED FOR GRADUATION</b>
+WORLD STUDIES	+AMERICAN STUDIES			<b>3 UNITS NEEDED FOR GRADUATION</b>
FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	<b>2 CREDITS RECOMMENDED FOR COLLEGE ADMISSION ½ CREDIT PE ½ CREDIT HEALTH NEEDED FOR GRADUATION</b>
+PE 1, +HEALTH	+PE 2	P.S.E.O.P.	P.S.E.O.P.	
▶ HEALTH SERVICES PATHWAY ELECTIVE	▶ HEALTH SERVICES PATHWAY ELECTIVE	▶ HEALTH SERVICES PATHWAY ELECTIVE	▶ HEALTH SERVICES PATHWAY ELECTIVE	

### ▶ HEALTH SERVICES PATHWAY ELECTIVE CHOICES

COMPUTER SKILLS 1  
COMPUTER SKILLS 2  
CHILD DEVELOPMENT

ACCOUNTING 1  
INTRO TO BUSINESS

SOCIOLOGY  
PSYCHOLOGY  
ECONOMICS

## C-TEC HEALTH SERVICES CAREER CLUSTER OPTIONS

(THESE CAREER/TECHNICAL PROGRAMS ARE FOR JUNIOR AND SENIOR STUDENTS)



DENTAL ASSISTING  
CLINICAL CARE (CTP)  
PHYSICAL THERAPY/EXERCISE SCIENCE (CTP)  
(CTP) INDICATES A COLLEGE TECH PREP PROGRAM

\* INDICATES RECOMMENDED COURSES THAT PROVIDE FOUNDATION FOR THE HEALTH CAREER CLUSTER

+ INDICATES REQUIRED CLASS FOR GRADUATION

P.S.E.O.P. = Post Secondary Educational Options Program (ask School Counselor for more details)



# ENVIRONMENTAL AND AGRICULTURAL SYSTEMS CAREER PATHWAY OCCUPATIONS

## PROFESSIONAL CAREERS

Agricultural Engineer	Agricultural Scientist	Agronomist
Landscape Architect	Earth Scientist	Game Warden
Forester	Geographer	Life Scientist
Oceanographer	Recreational Resort Manager	Park Ranger
Physical Scientist	Soil Scientist	Meteorologist
Environmental Researcher	Petroleum Engineer	Marine Biologist
Chemist	Extension Specialist	Agriculture Teacher
Veterinarian	Waste Management Researcher	Geologist

## TECHNICAL CAREERS

Agricultural Inspector	Animal Caretaker	Farmer
Farm Equipment Mechanic	Fish/Wildlife Technician	Rancher
Commercial Fisherman	Floral Designer	Forest Firefighter
Groundskeeper	Meat Cutter	Pulp/Paper Worker
Petroleum Processor	Farm Sales Representative	Forest Technician
Farm Operations Manager	Wildlife Ranger	Ranch Manager
Grain Elevator Operator	Veterinarian Assistant	Sanitarian

## ENTRY-LEVEL CAREERS

Military	Animal Caretaker	Farm Hand
Ranch Hand	Deck Hand/Fisherman	Logger
Environmental Clean-up Laborer	Landscaper	Pet Store Worker
Food Processing Worker	Horticulture Worker	Florist
Groundskeeper Assistant	Pest Control Worker	Cannery Worker
Frozen Food Worker	Lumber Production Worker	Nursery Manager
Sanitation Worker	Frozen Food Worker	Petroleum Helper



# ENVIRONMENTAL AND AGRICULTURAL SYSTEMS CAREER CLUSTER



## RECOMMENDED COURSES FOR EACH GRADE LEVEL

9 <sup>TH</sup>	10 <sup>TH</sup>	11 <sup>TH</sup>	12 <sup>TH</sup>	
<b>SELECT ONE</b> ENGLISH 9 COLLEGE PREP ENGLISH 9	<b>SELECT ONE</b> ENGLISH 10 COLLEGE PREP ENGLISH 10	ENGLISH 11 OR AP LIT/COMP	<b>SELECT TWO SEMESTER ENGLISHES</b> OR COLLEGE ENGLISH 12 OR AP ENGLISH LANG/COMP	<b>4 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> ALGEBRA I GEOMETRY HONORS GEOMETRY	<b>SELECT ONE</b> GEOMETRY C GEOMETRY ALGEBRA 2 HONORS ALGEBRA 2	<b>SELECT ONE</b> ALGEBRA 1-B GEOMETRY ALGEBRA 2 PRE-CALCULUS HONORS ADV MATH INTRO TO STATISTICS AP STATISTICS	<b>SELECT ONE</b> ALGEBRA 2 PRE-CALCULUS AP CALCULUS (AB) INTRO TO STATISTICS AP STATISTICS	<b>3 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> PHYSICAL SCIENCE HONORS PHYSICAL SCIENCE	<b>SELECT ONE</b> BIOLOGY 10	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. *CHEMISTRY AP CHEMISTRY PHYSICS	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. *CHEMISTRY AP CHEMISTRY PHYSICS	<b>3 UNITS NEEDED FOR GRADUATION</b>
+WORLD STUDIES	+AMERICAN STUDIES	*AMERICAN CIVIL WAR *SOCIOLOGY PSYCHOLOGY *ECONOMICS *INT'L RELS/FOR. POLICY	+AMER GOVERNMENT *AMERICAN CIVIL WAR *SOCIOLOGY PSYCHOLOGY *ECONOMICS *INT'L RELS/FOR. POLICY	<b>3 UNITS NEEDED FOR GRADUATION</b>
FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	<b>2 CREDITS RECOMMENDED FOR COLLEGE ADMISSION</b> <b>½ CREDIT PE</b> <b>½ CREDIT HEALTH</b> <b>NEEDED FOR GRADUATION</b>
+PE 1, +HEALTH	+PE 2	P.S.E.O.P.	P.S.E.O.P.	
► ENVIRONMENTAL & AGRICULTURAL SYSTEMS PATHWAY ELECTIVE	► ENVIRONMENTAL & AGRICULTURAL SYSTEMS PATHWAY ELECTIVE	► ENVIRONMENTAL & AGRICULTURAL SYSTEMS PATHWAY ELECTIVE	► ENVIRONMENTAL & AGRICULTURAL SYSTEMS PATHWAY ELECTIVE	

### ► ENVIRONMENTAL & AGRICULTURAL SYSTEMS PATHWAY ELECTIVE CHOICES

**COMPUTER SKILLS 1**  
**COMPUTER SKILLS 2**  
**INTERNATIONAL BUSINESS**  
**HEALTHY & SAFE FOODS**

**INTRO TO BUSINESS**  
**BUSINESS MANAGEMENT**  
**BUSINESS LAW**  
**ELECTRIC WELDING**

**ACCOUNTING 1**  
**BUSINESS MATH**  
**GAS WELDING**

## C-TEC ENVIRONMENTAL & AGRICULTURAL SYSTEMS CAREER CLUSTER OPTIONS

(THIS CAREER/TECHNICAL PROGRAM IS FOR HIGH SCHOOL GRADUATES/ADULTS)

P.L.A.N.T.



\* INDICATES RECOMMENDED COURSES THAT PROVIDE FOUNDATION FOR THE ENVIRONMENTAL AND AGRICULTURE SYSTEMS CAREER CLUSTER

+ INDICATES REQUIRED CLASS FOR GRADUATION

P.S.E.O.P. = Post Secondary Educational Options Program (ask School Counselor for more details)



# INFORMATION TECHNOLOGY CAREER PATHWAY OCCUPATIONS

## PROFESSIONAL CAREERS

Systems Analyst	Computer Programmer	Software Specialist
Technical Support Engineer	Senior Programmer	Network Administrator
Systems Administrator	Database Administrator	Programmer Analyst
Product Support Engineer	Network Engineer	IS Analyst
Graphic Designer	Multi-Media Director	

## TECHNICAL CAREERS

Certified Network Tech	Software Designer	Entry Programmer
Database Developer	Customer Service Rep	Media Designer
Call Center Support Rep	PC System Coordinator	Animator
LAN Support Analyst	Telecommunications Tech	Project Manager
Interactive Digital Media	Network Operations Analyst	Test Specialist
Software Application Specialist	Computer Operator	Cable Installer
Visual Design Consultant	Web Page Designer	Graphics Tech
Instructional Designer	Data Analyst	Production Assistant
Hardware Installer	Multi-Media Specialist	LAN Technician
Audio/Visual Specialist	Technical Sales Rep	Technical Writer
Operations Scheduler	Web Content Designer	Imaging Specialist
Virtual Reality Designer	Production Assistant	PC Technician
Quality Assurance Tech	Multi-Media Programmer	IS Operator

## ENTRY-LEVEL CAREERS

Computer Operator	Computer Equipment Repairer	Computer Security Specialist
-------------------	-----------------------------	------------------------------



# INFORMATION TECHNOLOGY CAREER CLUSTER



## RECOMMENDED COURSES FOR EACH GRADE LEVEL

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>	
<b>SELECT ONE</b> ENGLISH 9 COLLEGE PREP ENGLISH 9	<b>SELECT ONE</b> ENGLISH 10 COLLEGE PREP ENGLISH 10	ENGLISH 11 OR AP LIT/COMP	<b>SELECT TWO SEMESTER ENGLISHES</b> OR COLLEGE ENGLISH 12 OR AP ENGLISH LANG/COMP	<b>4 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> ALGEBRA I GEOMETRY HONORS GEOMETRY	<b>SELECT ONE</b> GEOMETRY C GEOMETRY ALGEBRA 2 HONORS ALGEBRA 2	<b>SELECT ONE</b> ALGEBRA I-B GEOMETRY *ALGEBRA 2 *PRE-CALCULUS HONORS PRE-CAL INTRO TO STATISTICS AP STATISTICS	<b>SELECT ONE</b> *ALGEBRA 2 *PRE-CALCULUS AP CALCULUS (AB) INTRO TO STATISTICS AP STATISTICS	<b>3 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> PHYSICAL SCIENCE HONORS PHYSICAL SCIENCE	<b>SELECT ONE</b> BIOLOGY 10	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. CHEMISTRY AP CHEMISTRY *PHYSICS AMERICAN CIVIL WAR SOCIOLOGY PSYCHOLOGY ECONOMICS INT'L RELS/FOR. POLICY	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. CHEMISTRY AP CHEMISTRY *PHYSICS +AMER GOVERNMENT AMERICAN CIVIL WAR SOCIOLOGY PSYCHOLOGY ECONOMICS INT'L RELS/FOR. POLICY	<b>3 UNITS NEEDED FOR GRADUATION</b>
+WORLD STUDIES	+AMERICAN STUDIES			<b>3 UNITS NEEDED FOR GRADUATION</b>
FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	<b>2 CREDITS RECOMMENDED FOR COLLEGE ADMISSION</b> <b>½ CREDIT PE</b> <b>½ CREDIT HEALTH NEEDED FOR GRADUATION</b>
+PE 1, +HEALTH	+PE 2	P.S.E.O.P.	P.S.E.O.P.	
► INFORMATION TECHNOLOGY PATHWAY ELECTIVE	► INFORMATION TECHNOLOGY PATHWAY ELECTIVE	► INFORMATION TECHNOLOGY PATHWAY ELECTIVE	► INFORMATION TECHNOLOGY PATHWAY ELECTIVE	

### ► INFORMATION TECHNOLOGY PATHWAY ELECTIVE CHOICES

COMPUTER SKILLS 1  
COMPUTER SKILLS 2

BUSINESS TECHNOLOGIES  
BUSINESS PROJECTS & APPLICATIONS

## C-TEC INFORMATION TECHNOLOGY CAREER CLUSTER OPTIONS

(THESE CAREER/TECHNICAL PROGRAMS ARE FOR JUNIOR AND SENIOR STUDENTS)

**COMPUTER NETWORKING AND APPLICATIONS (CTP)**

**COMPUTER INFORMATION SYSTEMS (CTP)** Locations at COTC and Lakewood HS  
**DIGITAL DESIGN AND INTERACTIVE MEDIA (CTP)**



**(CTP) INDICATES A COLLEGE TECH PREP PROGRAM**

\* INDICATES RECOMMENDED COURSES THAT PROVIDE FOUNDATION FOR THE INFORMATION TECHNOLOGY CAREER CLUSTER

+ INDICATES REQUIRED CLASS FOR GRADUATION

P.S.E.O.P. = Post Secondary Educational Options Program (ask School Counselor for more details)





# INDUSTRIAL AND ENGINEERING SYSTEMS CAREER PATHWAY OCCUPATIONS

## PROFESSIONAL CAREERS

Aerospace Engineer  
Compliance Inspector  
Cost Estimator  
Industrial Engineer  
Mining Engineer  
Production Superintendent  
Architect

Civil Engineer  
Construction Manager  
Electrical Engineer  
Petroleum Engineer  
Quality Control Inspector  
Automotive Designer  
Pilot

Chemical Engineer  
Air Traffic Controller  
Flight Engineer  
Mechanical Engineer  
Physicist  
Robotics Engineer  
Association Executive

## TECHNICAL CAREERS

Automobile Tech  
Chemical Processor  
Solar Technician  
Wastewater Plant Operator  
Union Executive  
Carpenter  
Molder  
Welding Inspector  
Millwright  
Boilermaker  
CNC Programmer  
Precision Instrument Repairer  
Contractor

Railroad Conductor/Brakeman  
Pipe fitter  
Technical Writer  
Truck/Diesel Mechanic  
Blaster  
Cement Mason  
Fabricator  
Auto Shop Owner  
Electrician  
Building Maintenance Worker  
Small Engine Repairer  
Quality Control Inspector  
Machinist

Cabinet Maker  
Sheet Metal Worker  
Laser Tech  
Line Installer/Repairer  
Bricklayer  
Building Inspector  
Tool & Die Maker  
Fork Lift Operator  
Auto Body Repairer  
HVAC Tech  
Surveyor  
Ironworker

## ENTRY-LEVEL CAREERS

Military  
Auto Parts Counter Worker  
Truck Driver  
Painter/Wallpaper Hanger  
Construction Laborer  
Press Operator  
Aircraft Assembler  
Roofer  
Gas and Oil Driller

Electronics Assembler  
Foundry Worker  
Metal Refining Worker  
Building Supply Sales Rep  
Drywall Hanger  
Mason Tender  
Grinder  
Welder  
Highway Maintenance Worker

Rotary Driller  
Insulation Installer  
Machine Operator  
HVAC Tech Helper  
Freight Handler  
Mine Worker  
Mechanic Helper  
Auto Detailer  
Electrician Helper



# INDUSTRIAL AND ENGINEERING SYSTEMS CAREER CLUSTER

## RECOMMENDED COURSES FOR EACH GRADE LEVEL



9 <sup>TH</sup>	10 <sup>TH</sup>	11 <sup>TH</sup>	12 <sup>TH</sup>	
<b>SELECT ONE</b> ENGLISH 9 College Prep English 9	<b>SELECT ONE</b> ENGLISH 10 COLLEGE PREP ENGLISH 10	ENGLISH 11 OR AP LIT/COMP	<b>SELECT TWO SEMESTER ENGLISHES</b> OR COLLEGE ENGLISH 12 OR AP ENGLISH LANG/COMP	<b>4 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> ALGEBRA I GEOMETRY HONORS GEOMETRY	<b>SELECT ONE</b> GEOMETRYC GEOMETRY ALGEBRA 2 HONORS ALGEBRA 2	<b>SELECT ONE</b> ALGEBRA I-B GEOMETRY ALGEBRA 2 *PRE-CALCULUS *HONORS PRE-CAL INTRO TO STATISTICS AP STATISTICS	<b>SELECT ONE</b> ALGEBRA 2 *PRE-CALCULUS *AP CALCULUS (AB) INTRO TO STATISTICS AP STATISTICS	<b>3 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> PHYSICAL SCIENCE HONORS PHYSICAL SCIENCE	<b>SELECT ONE</b> BIOLOGY 10	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. *CHEMISTRY AP CHEMISTRY* *PHYSICS AMERICAN CIVIL WAR SOCIOLOGY PSYCHOLOGY *ECONOMICS INT'L RELS/FOR. POLICY	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. *CHEMISTRY AP CHEMISTRY *PHYSICS +AMER GOVERNMENT AMERICAN CIVIL WAR SOCIOLOGY PSYCHOLOGY *ECONOMICS INT'L RELS/FOR. POLICY	<b>3 UNITS NEEDED FOR GRADUATION</b>
+WORLD STUDIES	+AMERICAN STUDIES		+AMER GOVERNMENT AMERICAN CIVIL WAR SOCIOLOGY PSYCHOLOGY *ECONOMICS INT'L RELS/FOR. POLICY	<b>3 UNITS NEEDED FOR GRADUATION</b>
FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	<b>2 CREDITS RECOMMENDED FOR COLLEGE ADMISSION</b> <b>½ CREDIT PE</b> <b>½ CREDIT HEALTH</b> <b>NEEDED FOR GRADUATION</b>
+PE 1, +HEALTH	+PE 2	P.S.E.O.P.	P.S.E.O.P.	
▶ INDUSTRIAL AND ENGINEERING SYSTEMS PATHWAY ELECTIVE	▶ INDUSTRIAL AND ENGINEERING SYSTEMS PATHWAY ELECTIVE	▶ INDUSTRIAL AND ENGINEERING SYSTEMS PATHWAY ELECTIVE	▶ INDUSTRIAL AND ENGINEERING SYSTEMS PATHWAY ELECTIVE	

### ▶ INDUSTRIAL AND ENGINEERING SYSTEMS PATHWAY ELECTIVE CHOICES

INTRODUCTION TO BUSINESS ECONOMICS	DRAWING 1 DRAWING 2 COMPUTER SKILLS 1	ELECTRIC WELDING GAS WELDING COMPUTER SKILLS 2
---------------------------------------	---	--

### C-TEC INDUSTRIAL AND ENGINEERING SYSTEMS CAREER CLUSTER OPTIONS

(THESE CAREER/TECHNICAL PROGRAMS ARE FOR JUNIOR AND SENIOR STUDENTS)

#### CONSTRUCTION CAREERS

ARCHITECTURAL AND ENGINEERING DESIGN (CTP)  
BUILDING TRADES  
ELECTRICITY

#### TRANSPORTATION CAREERS

AUTOMOTIVE COLLISION REPAIR  
AUTOMOTIVE TECHNOLOGIES  
DIESEL & POWER EQUIPMENT MECHANICS

#### MANUFACTURING CAREERS

ARCHITECTURAL AND ENGINEERING DESIGN (CTP)  
COMPUTER MACHINING TECHNOLOGIES  
WELDING AND SHEET METAL LAYOUT  
ENGINEERING TECHNOLOGIES (CTP) - COTC  
(CTP) INDICATES A COLLEGE TECH PREP PROGRAM



\* INDICATES RECOMMENDED COURSES THAT PROVIDE FOUNDATION FOR THE INDUSTRIAL AND ENGINEERING SYSTEMS CAREER CLUSTER

+ INDICATES REQUIRED CLASS FOR GRADUATION

P.S.E.O.P. = Post Secondary Educational Options Program (ask School Counselor for more details)



# BUSINESS AND MARKETING CAREER PATHWAY OCCUPATIONS

## PROFESSIONAL CAREERS

CPA/Accountant	Insurance Agent	Appraiser
Purchasing Agent	Cost Estimator	Manager
Quality Control Inspector	Office Manager	Real Estate Manager
Securities Salesperson	Advertising Executive	Financial Planner
Marketing Manager	Business Owner	Buyer
Personnel Manager	Lean Officer	Bank Manager
Financial Advisor	Compliance Officer	Union Executive
Market Research Analyst	Actuary	Economist
Health Service Administrator	Restaurant Manager	Hotel/Motel Manager
Clothing Designer	Interior Designer	Commercial Designer

## TECHNICAL CAREERS

Bookkeeper	Accounting Clerk	Statistical Clerk
Adjustment Clerk	Real Estate Agent	Legal Secretary
Legal Assistant	Travel Agent	Retail Buyer
Display Specialist	Credit Clerk	Office Manager
Sales & Service Manager	Telephone Salesperson	Retail Manager
Advertising Manager	Hotel Desk Clerk	Personnel Manager
Bank Teller	Tax Preparer	Administrative Asst

## ENTRY-LEVEL CAREERS

Word Processing Specialist	Counter Clerk	Retail Clerk
General Entry Operator	Route Salesperson	Computer Operator
Sales Associate	Customer Service Rep	Desktop Publisher
Receptionist	Administrative Asst	Military
Bill Collector	Bank Teller	Telemarketer
Telephone Operator	Merchandise Displayer	



# BUSINESS AND MARKETING CAREER CLUSTER



## RECOMMENDED COURSES FOR EACH GRADE LEVEL

9 <sup>th</sup>	10 <sup>th</sup>	11 <sup>th</sup>	12 <sup>th</sup>	
<b>SELECT ONE</b> ENGLISH 9 COLLEGE PREP ENGLISH 9	<b>SELECT ONE</b> ENGLISH 10 COLLEGE PREP ENGLISH 10	ENGLISH 11 OR AP LIT/COMP	<b>SELECT TWO SEMESTER ENGLISHES</b> OR COLLEGE ENGLISH 12 OR AP ENGLISH LANG/COMP	<b>4 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> ALGEBRA I GEOMETRY HONORS GEOMETRY	<b>SELECT ONE</b> GEOMETRY C GEOMETRY ALGEBRA 2 HONORS ALGEBRA 2	<b>SELECT ONE</b> ALGEBRA I-B GEOMETRY *ALGEBRA 2 *PRE-CALCULUS *HONORS PRE-CAL INTRO TO STATISTICS AP STATISTICS	<b>SELECT ONE</b> ALGEBRA 2 *PRE-CALCULUS *AP CALCULUS (AB) INTRO TO STATISTICS AP STATISTICS	<b>3 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> PHYSICAL SCIENCE HONORS PHYSICAL SCIENCE	<b>SELECT ONE</b> BIOLOGY 10	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. CHEMISTRY AP CHEMISTRY PHYSICS AMERICAN CIVIL WAR *SOCIOLOGY *PSYCHOLOGY *ECONOMICS *INT'L RELS/FOR. POLICY	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. CHEMISTRY AP CHEMISTRY PHYSICS +AMER GOVERNMENT AMERICAN CIVIL WAR *SOCIOLOGY *PSYCHOLOGY *ECONOMICS *INT'L RELS/FOR. POLICY	<b>3 UNITS NEEDED FOR GRADUATION</b>
+WORLD STUDIES	+AMERICAN STUDIES			<b>3 UNITS NEEDED FOR GRADUATION</b>
FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	<b>2 CREDITS RECOMMENDED FOR COLLEGE ADMISSION</b>
+PE 1, +HEALTH	+PE 2	P.S.E.O.P.	P.S.E.O.P.	<b>½ CREDIT PE NEEDED FOR GRADUATION</b>
► BUSINESS AND MARKETING PATHWAY ELECTIVE	► BUSINESS AND MARKETING PATHWAY ELECTIVE	► BUSINESS AND MARKETING PATHWAY ELECTIVE	► BUSINESS AND MARKETING PATHWAY ELECTIVE	

### ► BUSINESS AND MARKETING PATHWAY ELECTIVE CHOICES

COMPUTER SKILLS 1 COMPUTER SKILLS 2 BUSINESS TECHNOLOGIES BUSINESS PROJECTS & APPLICATIONS INTERNATIONAL BUSINESS ECONOMICS	ACCOUNTING 1 BUSINESS MATH BUSINESS MANAGEMENT SOCIOLOGY INT'L RELS/FOR. POLICY	INTRO TO BUSINESS BUSINESS LAW VISUAL COMMUNICATIONS 1 VISUAL COMMUNICATIONS 2 PSYCHOLOGY
--	---	---

## C-TEC BUSINESS AND MARKETING CAREER CLUSTER OPTIONS

(THESE CAREER/TECHNICAL PROGRAMS ARE FOR JUNIOR AND SENIOR STUDENTS)

**COMPUTERIZED ACCOUNTING TECHNOLOGY - COTC (CTP)**

**FASHION MERCHANDISING**

**HOTEL AND TRAVEL MANAGEMENT**

**LEGAL OFFICE ADMINISTRATION (CTP)**

**MEDICAL OFFICE ADMINISTRATION (CTP)**

**(CTP) INDICATES A COLLEGE TECH PREP PROGRAM**



\* INDICATES RECOMMENDED COURSES THAT PROVIDE FOUNDATION FOR THE BUSINESS AND MARKETING CAREER CLUSTER

+ INDICATES REQUIRED CLASS FOR GRADUATION

P.S.E.O.P. = Post Secondary Educational Options Program (ask School Counselor for more details)



# HUMAN RESOURCES AND SERVICES CAREER PATHWAY OCCUPATIONS

## PROFESSIONAL CAREERS

Anthropologist	Curator	Archivist
University Professor	Middle/High School Teacher	Elementary Teacher
Career/Technical Teacher	Social Scientist	Chef
Law Enforcement Officer	Social Worker	Coach
School Counselor	Librarian	Judge
Special Education Teacher	Probation Officer	Lawyer
Politician	Corrections Officer	Recreation Director
Pre-School Teacher	Clergy/Minister	Regional Planner
Behavioral Specialist	Sociologist	Educational Therapist
FBI Agent	Home Economist	Urban Planner
Human Resource Manager	Caseworker	Policy Analyst

## TECHNICAL CAREERS

Court Clerk	Mail Carrier	Childcare Worker
Flight Attendant	Legal Assistant	Paralegal
Security Guard	Ticket Agent	Firefighter
Family/Welfare Worker	Public Relations Worker	Postal Clerk
Counseling Aide	Cosmetologist	911 Operator
Sheriff	State Highway Patrol Officer	Evidence Tech
Court Advocate	Detective	Daycare Director
Nail Technician	Aroma Therapist	Massage Therapist
Electrologist	Esthetician	Reflexologist
Skin Care Specialist	Pedicurist	Manicurist

## ENTRY-LEVEL CAREERS

Military	Teacher Aide	Social Services Aide
Child Care Worker	Library Assistant	Waiter/Waitress
Kitchen Helper	Cashier	Tutor
Messenger	Newspaper Carrier	Caterer
Baker	Hostess	Cook
Bailiff	Corrections Officer	Dispatcher
Flight Attendant	Hotel Clerk	Janitor



## HUMAN RESOURCES AND SERVICES CAREER CLUSTER RECOMMENDED COURSES FOR EACH GRADE LEVEL



9 <sup>TH</sup>	10 <sup>TH</sup>	11 <sup>TH</sup>	12 <sup>TH</sup>	
<b>SELECT ONE</b> ENGLISH 9 COLLEGE PREP ENGLISH 9	<b>SELECT ONE</b> ENGLISH 10 COLLEGE PREP ENGLISH 10	ENGLISH 11 OR AP LIT/COMP	<b>SELECT TWO SEMESTER ENGLISHES</b> OR COLLEGE ENGLISH 12 OR AP ENGLISH LANG/COMP	<b>4 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> ALGEBRA I GEOMETRY HONORS GEOMETRY	<b>SELECT ONE</b> GEOMETRY C GEOMETRY ALGEBRA 2 HONORS ALGEBRA 2	<b>SELECT ONE</b> ALGEBRA I-B GEOMETRY ALGEBRA 2 PRE-CALCULUS HONORS PRE-CAL INTRO TO STATISTICS AP STATISTICS	<b>SELECT ONE</b> ALGEBRA 2 PRE-CALCULUS AP CALCULUS (AB) INTRO TO STATISTICS AP STATISTICS	<b>3 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> PHYSICAL SCIENCE HONORS PHYSICAL SCIENCE	<b>SELECT ONE</b> *BIOLOGY 10	<b>SELECT ONE</b> *ANATOMY/PHYSIOLOGY *BIOLOGY 2 ENVIRONMENTAL SCI. *CHEMISTRY AP CHEMISTRY PHYSICS AMERICAN CIVIL WAR *SOCIOLOGY *PSYCHOLOGY *ECONOMICS INT'L RELS/FOR. POLICY	<b>SELECT ONE</b> *ANATOMY/PHYSIOLOGY *BIOLOGY 2 ENVIRONMENTAL SCI. *CHEMISTRY AP CHEMISTRY PHYSICS +AMER GOVERNMENT AMERICAN CIVIL WAR *SOCIOLOGY *PSYCHOLOGY *ECONOMICS INT'L RELS/FOR. POLICY	<b>3 UNITS NEEDED FOR GRADUATION</b>
+WORLD STUDIES	+AMERICAN STUDIES		+AMER GOVERNMENT AMERICAN CIVIL WAR *SOCIOLOGY *PSYCHOLOGY *ECONOMICS INT'L RELS/FOR. POLICY	<b>3 UNITS NEEDED FOR GRADUATION</b>
FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	<b>2 CREDITS RECOMMENDED FOR COLLEGE ADMISSION</b> <b>½ CREDIT PE</b> <b>½ CREDIT HEALTH NEEDED FOR GRADUATION</b>
+PE 1, +HEALTH	+PE 2	P.S.E.O.P.	P.S.E.O.P.	
▶ HUMAN RESOURCES AND SERVICES PATHWAY ELECTIVES	▶ HUMAN RESOURCES AND SERVICES PATHWAY ELECTIVES	▶ HUMAN RESOURCES AND SERVICES PATHWAY ELECTIVES	▶ HUMAN RESOURCES AND SERVICES PATHWAY ELECTIVES	

### ▶ HUMAN RESOURCES AND SERVICES PATHWAY ELECTIVE CHOICES

<b>COMPUTER SKILLS 1</b> <b>COMPUTER SKILLS 2</b> <b>CHILD DEVELOPMENT</b> <b>BUSINESS MANAGEMENT</b> <b>ECONOMICS</b>	<b>INTRO TO BUSINESS</b> <b>BUSINESS LAW</b> <b>HEALTHY &amp; SAFE FOODS</b> <b>SOCIOLOGY</b>	<b>PERSONAL LIFE SKILLS</b> <b>THE ARTS AND HUMANITY</b> <b>THEMES IN ART AND MUSIC</b> <b>PSYCHOLOGY</b>
--	--	--

## C-TEC HUMAN RESOURCES AND SERVICES CAREER CLUSTER OPTIONS

(THESE CAREER/TECHNICAL PROGRAMS ARE FOR JUNIOR AND SENIOR STUDENTS)



**COSMETOLOGY**  
**CRIMINAL JUSTICE (CTP)**  
**CULINARY ARTS**  
**EARLY CHILDHOOD EDUCATION**  
**FIREFIGHTING/EMERGENCY MEDICAL SERVICES (CTP)**  
**TEACHING PROFESSIONS ACADEMY (SENIORS ONLY)**  
**(CTP) INDICATES A COLLEGE TECH PREP PROGRAM**

\* INDICATES RECOMMENDED COURSES THAT PROVIDE FOUNDATION FOR THE HUMAN RESOURCES AND SERVICES CAREER CLUSTER

+ INDICATES REQUIRED CLASS FOR GRADUATION

P.S.E.O.P. = Post Secondary Educational Options Program (ask School Counselor for more details)



# ARTS AND COMMUNICATIONS CAREER PATHWAY OCCUPATIONS

## PROFESSIONAL CAREERS

Actor	Fine Artist	Performing Artist
Professional Athlete	Radio Broadcaster	Television Broadcaster
Editor	Video Maker	Publisher
Public Speaker	Screen Writer	Free Lance Writer
Musician	Advertising Executive	News Manager
Journalist	Interpreter	Reporter
Film Maker	Film Director	Author
Talent Agent	Correspondent	Commentator
Script Writer	Film Producer	Playwright

## TECHNICAL CAREERS

Compositor/Typesetter	Singer	Computer Artist
Photographer	TV Assistant	Model
Radio Assistant	Technical Writer	Broadcast Technician
Film/Videotape Maker	Videographer	Camera Operator
Lighting Technician	Display Designer	Illustrator
TV Production Tech	Stage Manager	Visual Artist
Costume Designer	Dancer	Film/Videotape Editor

## ENTRY-LEVEL CAREERS

Military	Model	Theatrical Make-up Artist
Darkroom Tech	Photographer Tech	Production Controller
Announcer	Sketch Artist	Photograph Processing Worker
Broadcast Technician	Graphic Designer	



# ARTS AND COMMUNICATIONS CAREER CLUSTER



## RECOMMENDED COURSES FOR EACH GRADE LEVEL

9 <sup>TH</sup>	10 <sup>TH</sup>	11 <sup>TH</sup>	12 <sup>TH</sup>	
<b>SELECT ONE</b> ENGLISH 9 COLLEGE PREP ENGLISH 9	<b>SELECT ONE</b> ENGLISH 10 COLLEGE PREP ENGLISH 10	ENGLISH 11 OR AP LIT/COMP	<b>SELECT TWO SEMESTER ENGLISHES</b> OR COLLEGE ENGLISH 12 OR AP ENGLISH LANG/COMP	<b>4 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> ALGEBRA I GEOMETRY HONORS GEOMETRY	<b>SELECT ONE</b> GEOMETRY C GEOMETRY ALGEBRA 2 HONORS ALGEBRA 2	<b>SELECT ONE</b> ALGEBRA I-B GEOMETRY ALGEBRA 2 PRE-CALCULUS HONORS PRE-CAL INTRO TO STATISTICS AP STATISTICS	<b>SELECT ONE</b> ALGEBRA 2 PRE-CALCULUS AP CALCULUS (AB) INTRO TO STATISTICS AP STATISTICS	<b>3 UNITS NEEDED FOR GRADUATION</b>
<b>SELECT ONE</b> PHYSICAL SCIENCE HONORS PHYSICAL SCIENCE	<b>SELECT ONE</b> BIOLOGY 10	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. CHEMISTRY AP CHEMISTRY PHYSICS AMERICAN CIVIL WAR *SOCIOLOGY *PSYCHOLOGY ECONOMICS INT'L RELS/FOR. POLICY	<b>SELECT ONE</b> ANATOMY/PHYSIOLOGY BIOLOGY 2 ENVIRONMENTAL SCI. CHEMISTRY AP CHEMISTRY PHYSICS +AMER GOVERNMENT AMERICAN CIVIL WAR *SOCIOLOGY *PSYCHOLOGY ECONOMICS INT'L RELS/FOR. POLICY	<b>3 UNITS NEEDED FOR GRADUATION</b>
+WORLD STUDIES	+AMERICAN STUDIES			<b>3 UNITS NEEDED FOR GRADUATION</b>
FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	FOREIGN LANGUAGE ELECTIVE	<b>2 CREDITS RECOMMENDED FOR COLLEGE ADMISSION ½ CREDIT PE ½ CREDIT HEALTH NEEDED FOR GRADUATION</b>
+PE 1, +HEALTH	+PE 2	P.S.E.O.P.	P.S.E.O.P.	
▶ ARTS AND COMMUNICATIONS PATHWAY ELECTIVE	▶ ARTS AND COMMUNICATIONS PATHWAY ELECTIVE	▶ ARTS AND COMMUNICATIONS PATHWAY ELECTIVE	▶ ARTS AND COMMUNICATIONS PATHWAY ELECTIVE	

### ▶ ARTS AND COMMUNICATIONS PATHWAY ELECTIVE CHOICES

COMPUTER SKILLS 1 COMPUTER SKILLS 2 BASIC PHOTOGRAPHY ADV PHOTOGRAPHY WOOD TECHNOLOGY ADV WOOD TECH ARTS AND HUMANITY DRAWING 1 ADV ART STUDIES	SCULPTURE 1 SCULPTURE 2 MARCHING BAND SYMPHONIC BAND JAZZ ENSEMBLE SOCIOLOGY THEMES IN ART & MUSIC DRAWING 2 VISUAL COMM 1	CONCERT CHOIR SYMPHONIC CHOIR VOCAL ENSEMBLE MUSIC FOR LIFE MUSIC THEORY MUSIC TECHNOLOGY PSYCHOLOGY PAINTING 1 VISUAL COMM 2	JOURNALISM PRINT PRODUCTION CERAMICS 1 CERAMICS 2 ADV CERAMICS PAINTING 2
---	--	---	--

## C-TEC ARTS AND COMMUNICATIONS CAREER CLUSTER OPTIONS

(THESE CAREER/TECHNICAL PROGRAMS ARE FOR JUNIOR AND SENIOR STUDENTS)

**THEATRE ARTS ACADEMY – IN COOPERATION WITH WEATHERVANE**  
**VISUAL COMMUNICATIONS THROUGH ART – Granville HS**

\* INDICATES RECOMMENDED COURSES THAT PROVIDE FOUNDATION FOR THE ARTS AND COMMUNICATIONS CAREER CLUSTER

+ INDICATES REQUIRED CLASS FOR GRADUATION

P.S.E.O.P. = Post Secondary Educational Options Program (ask School Counselor for more details)



