

EDUCATIONAL CAREER PLAN

Career Path: Human Services

Career Cluster: Law, Public Safety & Security

High School	10 th Grade			11 th Grade		12 th Grade*	
	9 th Grade	10 th Grade	11 th Grade	12 th Grade	13 th Grade	14 th Grade	15 th Grade
Sample Careers	English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English			
	Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus			
	Physical Science	Biology	ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics			
	American History	World History	Government	Social Studies Elective			
	PE Elective	Health/Personal Finance	Elective	Elective			
	Fine Arts Elective	Elective	Elective	Elective			
	Practical Arts Elective	Elective	Elective	Elective			
	Career Major Elective(s) Career and Family Leadership	Career Major Elective(s) Child Development Family and Individual Health	Career Major Coursework: Marriage and Family Relations Sociology Contemporary Issues		Communications Psychology		
	Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology I or II					
	Correction Services Warden Jail Administrator Program Coordinator and Counselor Public Information Officer Correctional Officer/Trainer Case Manager Probation/Parole Officer Correction Educator Detention Deputy Youth Service Worker Transport Officer	Emergency and Fire Management Services Emergency Management Emergency Response Coordinator Emergency Planning Manager Emergency Medical Technician Fire Fighter Wild land Fire Fighter Hazardous Materials Responder Dispatcher Training Officer Rescue Worker Law Enforcement Services Criminal Investigator and Special Agent Federal Marshall Police, Fire and Ambulance Driver Evidence Technician Bailiff Park Ranger	Security and Protective Services Security Director Security System Designer/Consultant Physical Security Specialist Information Systems Security Specialist Computer Forensics Specialist Private/Corporate Investigator Security Trainer/Educator Loss Prevention Specialist Security Systems Technician Armored Car Guard Immigration and Customs Inspector Police Detective and Criminal Investigator Sheriff and Deputy Sheriff Game Enforcement Officer Animal Control Officer Police and Patrol Officers	Legal Services Judge Magistrate Attorney Case Management Specialist Legal Assistant Court Reporter File and Document Manager Law Clerk Paralegal Mediator/Arbitrator Legal Secretary			

Adapted from the National Career Clusters

This is only a suggested course of study and should be evaluated and adapted to fit your individual needs.

EDUCATIONAL CAREER PLAN

Career Path: Industrial & Engineering Technology

Career Cluster: Manufacturing

High School	9 th Grade			10 th Grade			11 th Grade			12 th Grade*		
	English I			English II, Fundamental English			English III, Fundamental English			English IV, Fundamental English, Practical Senior English		
	Pre-Algebra, Algebra A Algebra I or Geometry			Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra			Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus			Algebra II, College Algebra, Trigonometry & Statistics or Calculus		
	Physical Science			Biology			ChemComm, Chemistry, Advanced Biology or Physics			Advanced Biology or Physics		
	American History			World History			Government			Social Studies Elective		
	PE Elective			Health/Personal Finance			Elective			Elective		
	Fine Arts Elective			Elective			Elective			Elective		
	Practical Arts Elective			Elective			Elective			Elective		
	Career Major Elective(s) Computer Technology I Ag Science I Conservation Ag Science I Animal			Career Major Elective(s) Computer Technology I or II Ag Science II			Career Major Coursework: Agriculture Power Industrial Welding I Agriculture Structures					
	Additional Coursework Foreign Language or Computer Technology			Additional Coursework Foreign Language or Computer Technology								
Sample Careers	Production Assembler Automated Manufacturing Technicians Book Binders Calibration Technicians Electromechanical Equipment Assemblers Extruding and Drawing Machine Operators Machine Operators Medical Appliance Makers Tool and Die Makers	Manufacturing Production Process Development Design Engineers Industrial Engineers Labor Relation Manager Manufacturing Engineer Power Generating and Rector Plant Operator Security System Installer/Repair Precision Inspectors, Testers, and Grader Production Manager Process Improvement Tech						Logistics and Inventory Control Dispatchers Traffic Managers Logisticians Logistical Engineer Safety Technician Safety Engineers Freight Stock and Material Movers Materials Handler Process Improvement Technician Industrial Truck and Tractor Operators				
		Quality Assurance Process Control Technicians Quality Control Managers Inspectors Lab Technicians SPC Coordinators Quality Control Technicians Quality Engineers						Maintenance, Installation and Repair Biomedical Equipment Technicians Instrument Control Technician Communication System Installer Laser System Technician Meter Installer and Repair				
		Health Safety and Environmental Assurance Environmental Engineer Environmental Specialists Safety Specialists Safety Technician Health and Safety Representatives Safety Coordinator Safety Team Leader										

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EDUCATIONAL CAREER PLAN

Career Path: Human Services

Career Cluster: Marketing, Sales & Service

High School				
9 th Grade	10 th Grade	11 th Grade	12 th Grade*	
English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English	
Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus	
Physical Science	Biology	ChemComm, Chemistry , Advanced Biology or Physics	Advanced Biology or Physics	
American History	World History	Government	Social Studies Elective	
PE Elective	Health/Personal Finance	Elective	Elective	
Fine Arts Elective	Elective	Elective	Elective	
Practical Arts Elective	Elective	Elective	Elective	
Career Major Elective(s) Career & Family Leadership	Career Major Elective(s) Accounting I Introduction to Business	Career Major Coursework: Entrepreneurship/Junior Achievement Contemporary Issues Accounting II Graphic Arts II		
Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology I or II			
Management and Entrepreneurship Chief Executive Officer Entrepreneur Franchisee Independent Distributor Owner Partner President Small Business Owner	Professional and Sales Marketing Account Executive Broker Field Representative Regional Sales Manager Retail Sales Specialist Sales Executive Store Manager	Buying and Merchandising Clerk Department Manager Merchandise Buyer Merchandising Manager Operations Manager Sales Associate Retail Merchandising Coordinator	Distributions and Logistics Distribution Coordinator Inventory Manager/Analyst Logistics Analyst/Engineer Logistics Manager Materials Manager Shipping and Receiving Administrator Shipping and Receiving Clerk Warehouse Manager	
Marketing Information Management and Research Director of Market Development Research Manager Knowledge Management Specialist Product Planner Brand Manager Data base Manager Research Manager Strategic Planner	Marketing Communications and Promotion Advertising Manager Art/Graphics Director Creative Director Interactive Media Specialist Marketing Associate Public Relations Manager Sales Representative Technical Sales Specialist Research Specialist		E-Marketing Copywriter/Designer Customer Support Specialist E-Commerce Director E-Merchandising Specialist Fulfillment Manager On-Line Market Researcher Site Architect Web Site Project Manager Web Master	
Sample Careers				

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EDUCATIONAL CAREER PLAN

Career Path: Natural Resources/ Agriculture

Career Cluster: Agriculture, Food & Natural Resources

High School			
9 th Grade	10 th Grade	11 th Grade	12 th Grade*
English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English
Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry, Geometry Concepts, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus
Physical Science	Biology	ChemComm, Chemistry , Advanced Biology or Physics	Advanced Biology or Physics
American History	World History	Government	Social Studies Elective
PE Elective	Health/Personal Finance	Elective	Elective
Fine Arts Elective	Elective	Elective	Elective
Practical Arts Elective	Elective	Elective	Elective
Career Major Elective(s) Ag Science I Animal Ag Science I Conservation	Career Major Elective(s) Ag Science II	Career Major Coursework: Agricultural Business Management Greenhouse Operation & Management Landscaping & Turf Management Principles of Economics Welding I & II	
Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology I or II	Advanced Livestock Agricultural Construction Agricultural Power Agricultural Structures Small Animal Care Auto Technology I & II	
Sample Careers			
Food Products and Processing Food Scientist Bacteriologist Food and Drug Inspector Meat Processor Meat Cutter Fish and Game Officer Forest Worker Park Manager	Plant Systems Soil and Water Specialist Certified Crop Advisor Botanist Tree Surgeon Green House Manager Forest Geneticist Golf Course Superintendent Education and Extension Specialist	Animal Systems Animal Geneticist Aquaculturalist Embryo Technologist Veterinarian Farm and Ranch Manager Feed/ Farm Store Manager Artificial Insemination Technician	Power, Structural and Technical Systems Welder Machinist Agricultural Engineer Communications Technician Equipment Parts Manager Recycling Technician Agricultural Engineer Electronic Systems Technician Global Positioning System Technician
Environmental Service Systems Pollution Prevention & Control Manager Environmental Sampling Tech Health and Safety Sanitarian Hazardous Materials Handler	Natural Resource Systems Wildlife Manager or Technician Specialist Water Monitoring Technician Natural History Interpreter Forest Manager or Technician Forest Worker or Logger Fish and Game Officer	Agribusiness Systems International Agri – Marketing Agricultural Loan Officer Agricultural Commodity Broker Agricultural Economist Livestock Buyer/ Seller Agricultural Products Buyer Agricultural Salesperson	

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EDUCATIONAL CAREER PLAN

Career Path: Industrial & Engineering Technology

Career Cluster: Architecture & Construction

High School	Sample Careers			
	9 th Grade	10 th Grade	11 th Grade	12 th Grade*
	English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English
	Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry, Geometry Concepts, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus
	Physical Science	Biology	ChemComm, Chemistry Advanced Biology or Physics	Advanced Biology or Physics
	American History	World History	Government	Social Studies Elective
	PE Elective	Health/ Personal Finance	Elective	Elective
	Fine Arts Elective	Elective	Elective	Elective
	Practical Arts Elective	Elective	Elective	Elective
	Career Major Elective(s) Computer Tech I	Career Major Elective(s) Computer Tech II	Career Major Coursework: Principles of Economics Building Trades I Housing & Interior Design Ag Structures Industrial Welding I	
	Additional Coursework Foreign Language or Computer Technology	Additional Coursework Foreign Language or Computer Technology		
	Design/Pre-Construction Architect Computer Information System Manager Designer Computer-Aided Drafter (CAD) Landscape Designer Mechanical Designer Mechanical Engineer Renderer Surveyor Urban Planner Preservationist	Construction Carpenter Education and Training Director Electrician General Contractor Iron/Metal Worker Pipe Fitter	Maintenance/Operations Boilermaker Demolition Engineer Environmental Engineer Equipment Operator Highway Worker Maintenance Planner Millwright Specialty Contractor Thermal Control Technician	

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EDUCATIONAL CAREER PLAN

Career Path: Arts & Communications

Career Cluster: Arts, AV Technology & Communications

High School				9 th Grade	10 th Grade	11 th Grade	12 th Grade*
Sample Careers				English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English
				Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus
				Physical Science	Biology	Contextual Chemistry, Chemistry Advanced Biology or Physics	Advanced Biology or Physics
				American History	World History	Government	Social Studies Elective
				PE Elective	Health/ Personal Finance	Elective	Elective
				Fine Arts Elective	Elective	Elective	Elective
				Practical Arts Elective	Elective	Elective	Elective
				Career Major Elective(s) Art I	Career Major Elective(s) Art II	Career Major Coursework: Communications Art IV Graphic Arts II Advanced Desktop Publishing	
				Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology I or II		
				Audio, Video, Technology & Film Audio Visual System Technician Audio Technician Sound Board Operator Video Technician Lighting Technician Installer/ Installation Engineer Service Technician	Journalism and Broadcasting Reporter Correspondent News Analyst Camera Operator Broadcast and Sound Technician Broadcast Field Supervisor Transmission Engineer Chief Engineer	Telecommunications Network Technician Telecommunications Specialists Central Office Installer	Performing Arts Playwright Desktop Publishing Specialist Script Writer Actor/ Actress Lighting Designer Set Designer Instrumentalist Stage Crew Musician Singer Conductor Dance Instructor
				Printing Technology Job Printer Plate Maker Press Operator	Visual Arts Commercial Photographer Painter Art Teacher Fashion Artist Computer Artist Visual Information Specialist	Illustrator College Professor Art Director Sculptor Animator	

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EDUCATIONAL CAREER PLAN

Career Path: Business, Management, & Technology

Career Cluster: Business, Management & Administration

High School		9 th Grade	10 th Grade	11 th Grade	12 th Grade*
	English I	English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English
	Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra		Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry Statistics or Calculus
	Physical Science	Biology		ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics
	American History	World History		Government	Social Studies Elective
	PE Elective	Health/Personal Finance		Elective	Elective
	Fine Arts Elective	Elective		Elective	Elective
	Practical Arts Elective	Elective		Elective	Elective
	Career Major Elective(s) Computer Tech I	Career Major Elective(s) Computer Tech I or II		Career Major Coursework: Junior /Senior Survival Accounting I & II Introduction to Business Entrepreneurship/Junior Achievement	
	Additional Coursework Foreign Language or Computer Technology	Additional Coursework Foreign Language or Computer Technology			
Sample Careers		Management Entrepreneur Chief Executive Officer General Manager Controller Public Relations Manager Store Manager <u>Information & Administration Support</u> Executive Assistant Administrative Assistant Office Manager Information Assistant Desktop Publisher Data Entry Specialist Receptionist Computer Operator Word Processor	Human Resources Human Resource Manager Personnel Recruiter Customer Service Supervisor Compensation and Benefits Manager Retail Salesperson Training and Development Specialist Assistant Store Manager Labor and Personnel Relations Specialist Equal Employment Opportunity Specialist OSHA/ADA Compliance Officer Human Resources Information Systems Specialist Meeting and Convention Planner Advertising Agent Telemarketer Customer Service Supervisor Store Manager Retail Salesperson	Business Analysis Project Analyst Business Analyst Systems Analyst Budget Analyst Compensation Analyst Cost Analyst Investment Analyst Management Analyst <u>Marketing</u> Public Relations Specialist Assistant Manager Sales Engineer Wholesale and Retail Buyer	Business Financial Management & Accounting Accountant Adjuster Auditor Bookkeeper Billing Supervisor Price Analyst Treasurer Chief Financial Officer Accounts Payable Clerk Financial Accountant Billing Clerk Marketing Manager

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EDUCATIONAL CAREER PLAN

Career Path: Human Services

Career Cluster: Education & Training

High School				
9 th Grade	10 th Grade	11 th Grade	12 th Grade*	
English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English ,Practical Senior English	
Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus	
Physical Science	Biology	ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics	
American History	World History	Government	Social Studies Elective	
PE Elective	Health/Personal Finance	Elective	Elective	
Fine Arts Elective	Elective	Elective	Elective	
Practical Arts Elective	Elective	Career Major Elective(s) Nutrition & Wellness	Career Major Coursework: Early Childhood Careers Child Development Assoc. CDA Certificate. Health Occupations II CNA Certificate	
Career Major Elective(s) Career & Family Leadership Foods and Nutrition	Career Major Elective(s) Nutrition & Wellness			
Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology I or II			
<u>Teaching and Training</u>		<u>Administrative and Administrative Support</u>		
Preschool or Kindergarten Teacher Elementary Teacher Secondary Teacher Special Education Teacher College/University Lecturer, Professor Management Development Trainer Human Resource Trainer Coach Child Care Director Child Life Specialist Early Childhood Teacher, Assistant		Superintendent Principal Director of Training Supervisor Instructional Coordinator Education Researcher Test Measurement Specialist College President College Dean Curriculum Developer Instructional Media Designer		
<u>Professional Support Services</u>		Psychologists, Clinical, Developmental, & Social Social Worker Parent Educator Counselor Speech Language Pathologist and Audiologist		

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EDUCATIONAL CAREER PLAN

Career Path: Business, Management, & Technology

Career Cluster: Finance

High School		9 th Grade	10 th Grade	11 th Grade	12 th Grade*
Sample Careers		English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English
		Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry Statistics or Calculus
		Physical Science	Biology	ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics
		American History	World History	Government	Social Studies Elective
		PE Elective	Health/Personal Finance	Elective	Elective
		Fine Arts Elective	Elective	Elective	Elective
		Practical Arts Elective	Elective	Elective	Elective
		Career Major Elective(s) Career & Family Leadership Computer Tech I	Career Major Elective(s) Computer Tech II	Career Major Coursework: Junior/ Senior Survival Sociology Principals of Economics Accounting I & II Introduction to Business	
		Additional Coursework Foreign Language or Computer Technology	Additional Coursework Foreign Language or Computer Technology		
		Financial and Investment Planning Personal Finance Advisor Tax Preparer Sales Agent for Securities and Commodities Investment Advisor Brokerage Clerk Development Officer	Business Financial Management Accountant Financial Analyst Treasurer Controller Chief Revenue Agent Auditor Economist Tax Examiner Tax Collector Revenue Agent	Banking and Related Services Credit Analyst Loan Officer Bill and Account Collector Bank Teller Loan Processor Data Processor Internal Auditor Title Researcher and Examiner Repossession Agent Operations Manager Debt Counselor	Insurance Services Insurance Claims Agent Insurance Examiner Insurance Investigator Claims Clerk Insurance Underwriter Insurance Appraiser Actuary Insurance Sales Agent Customer Service Agent Insurance Processing Clerk Direct Marketing Specialist

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EDUCATIONAL CAREER PLAN

Career Path: Human Services

Career Cluster: Government & Public Administration

High School		9 th Grade	10 th Grade	11 th Grade	12 th Grade*
Sample Careers	Governance Legislative Assistant Congressional Aide Lobbyist County Commissioner Senator State Representative Mayor Governor Lieutenant Governor	English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English
		Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus
		Physical Science	Biology	ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics
		American History	World History	Government	Social Studies Elective
		PE Elective	Health/ Personal Finance	Elective	Elective
		Fine Arts Elective	Elective	Elective	Elective
		Practical Arts Elective	Elective	Elective	Elective
		Career Major Elective(s) Career & Family Leadership	Career Major Elective(s) Family and Individual Health Introduction to Business	Career Major Coursework: Accounting I & II Sociology Psychology Business Technology Communications	
		Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology I or II		
		Governance Legislative Assistant Congressional Aide Lobbyist County Commissioner Senator State Representative Mayor Governor Lieutenant Governor	Revenue and Taxation Tax Examiner Tax Clerk Revenue Agent Internal Revenue Investigator County Assessor Auditor	Planning Planner Census Enumerator Census Clerk Federal Aide Coordinator Economic Development Coordinator Chief of Vital Statistics	National Security Combat Control Officer Missile and Space System Officer Submarine Officer Munitions Officer/Specialist Infantry Officer/Specialist Air Defense Artillery Officer Military Intelligence officer Cryptographer Intelligence Analyst
			Public Management and Administration Court Administrator/Clerk City or County Clerk City Council Member City Manager Purchasing Manager	Regulation Code Inspector Bank Examiner Election Supervisor Child Support Officer Cargo Inspector Border Inspector Aviation Safety Officer Foreign Service Foreign Service Officer Diplomatic Officer Consular Officer Ambassador Diplomatic Courier	

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EDUCATIONAL CAREER PLAN

Career Path: Health Services

Career Cluster: Health Science

High School				
9 th Grade	10 th Grade	11 th Grade	12 th Grade*	
English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English	
Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus	
Physical Science	Biology	ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics	
American History	World History	Government	Social Studies Elective	
PE Elective	Health/Personal Finance	Elective	Elective	
Fine Arts Elective	Elective	Elective	Elective	
Practical Arts Elective	Elective	Elective	Elective	
Career Major Elective(s) Career & Family Leadership Nutrition & Wellness	Career Major Elective(s) Food and Nutrition Family and Individual Health	Accounting I & II Health Occupations I	Career Major Coursework: Marriage and Family Relations Health Occupations II CNA Certification	
Additional Coursework Foreign Language or Computer Technology	Additional Coursework Foreign Language or Computer Technology			
Sample Careers				
Therapeutic Services Athletic Trainer Certified Nursing Assistant Dental Hygienist Paramedic Pharmacist Physical Therapist Physician Registered Nurse Respiratory Therapist Surgical Technician	Diagnostic Services Geneticist Medical Laboratory Technician Nuclear Medical Technician Pathologist Phlebotomist Radiologist	Health Informatics Admitting Clerk Data Analyst Health Care Administrator Medical Billing Specialist Medical Information Technologist Medical Librarian Reimbursement Specialist Transcriptionist	Support Services Biomedical/Clinical Engineer Central Services Technician Dietary Technician Environmental Services Technician Hospital Maintenance Engineer Materials Management Technician	
Biotechnology Research and Development Biostatistician Microbiologist Bioinformatics Specialist Molecular Biologist Research Assistant				

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EDUCATIONAL CAREER PLAN

Career Path: Human Services

Career Cluster: Hospitality & Tourism

High School				
9 th Grade	10 th Grade	11 th Grade	12 th Grade*	
English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English	
Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus	
Physical Science	Biology	ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics	
American History	World History	Government	Social Studies Elective	
PE Elective	Health/Personal Finance	Elective	Elective	
Fine Arts Elective	Elective	Elective	Elective	
Practical Arts Elective	Elective	Elective	Elective	
Career Major Elective(s) Career & Family Leadership Foods and Nutrition	Career Major Elective(s) Nutrition & Wellness	Entrepreneur/Junior Achievement Culinary Arts I Introduction to Business	Career Major Coursework: Communications Culinary Arts II Business Technology	
Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology II			
Sample Careers				
Restaurant, Food/Beverage Services General Restaurant Manager Food and Beverage Manager Catering and Banquet Manager Maitre'D Restaurant Owner Executive Chef Pastry and Specialty Chef Cook Bartender and Server Banquet Setup Employee Room service Attendant Wine Steward	Lodging General Hotel Manager Front Office Manager Executive Housekeeper Director of Sales and Marketing Director of Operations Room Division Manager Reservations Supervisor Front Desk Supervisor Bell Captain Sales Professional Preservationist Guestroom Attendant	Travel and Tourism Event Planner Convention Services Manager Destination Manager Heritage Tourism Development Interpreter Meeting Planner Tour Guide Tour Operator Travel Agent Tour and Ticket Preservationist Welcome Center Supervisor	Recreation, Amusements and Attractions Club Manager Club Event Planner Club Membership Developer Parks and Gardens Director Resort Instructor Gaming and Casino Supervisor Fairs, Festivals Event Planner Fairs, Festivals Promotional Developer	

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EDUCATIONAL CAREER PLAN

Career Path: Human Services

Career Cluster: Human Services

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade*
	English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English
	Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus
	Physical Science	Biology	ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics
	American History	World History	Government	Social Studies Elective
	PE Elective	Health/Personal Finance	Elective	Elective
	Fine Arts Elective	Elective	Elective	Elective
	Practical Arts Elective	Elective	Elective	Elective
	Career Major Elective(s) Career & Family Leadership Nutrition and Wellness	Career Major Elective(s) Foods and Nutrition Family & Individual Health	Career Major Coursework: Child Development Marriage and Family Living Relations Sociology Accounting I & II	
	Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology I or II		
Sample Careers	Counseling and Mental Health Services Career Counselor Clinical And Counseling Psychologist HIV/Aids Counselor Marriage , Child and Family Counselor Mental Health Counselor Rehabilitation Counselor School Counselor Substance Abuse And Behavioral Counselor	Early Childhood Development Services Assistant Director Childcare Facilities Childcare Assistance/Worker Director of Childcare Facilities Educator for Parents Nanny Preschool Teacher Teachers Assistant	Personal Care Services Barber Cosmetologist Embalmer Funeral Director Nail Technician Personal Trainer Skin Care Specialist Spa Attendant	Consumer Services Certified Financial Planner Consumer Advocate Consumer Affairs Officer Consumer Research Counselor Consumer Research Department Representative Customer Service Representative Employee Benefits Representative Financial Advisor Market Researcher
		Family and Community Services Community Service Director Adult Daycare Worker Coordinator of Volunteer Services Director of Religious Activities/Education Program Emergency and Relief Worker		

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EDUCATIONAL CAREER PLAN

Career Path: Business, Management, & Technology

Career Cluster: Information Technology

High School				
9 th Grade	10 th Grade	11 th Grade	12 th Grade*	
English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English	
Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus	
Physical Science	Biology	ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics	
American History	World History	Government	Social Studies Elective	
PE Elective	Health/ Personal Finance	Elective	Elective	
Fine Arts Elective	Elective	Elective	Elective	
Practical Arts Elective	Elective	Elective	Elective	
Career Major Elective(s) Computer Technology I	Career Major Elective(s) Computer Technology II Introduction to Business	Graphic Arts I & II Desktop Publishing Entrepreneurship/Junior Achievement	Career Major Coursework: Business Technology Advanced Desktop Publishing	
Additional Coursework Foreign Language or Computer Technology	Additional Coursework Foreign Language or Computer Technology			
Network Systems Network Administrator Network Technician PC Support Specialist Telecommunications Network Technician Data Communications Analyst Security Administrator	Programming and Software Development Software Applications Architect Operations System Designer/Engineer Computer Programmer Web Designer Webmaster 3-D Animator Virtual Reality Specialist Multi Media Producer Graphic Artist		Information Support and Services Data Base Administrator Enterprise Systems Engineer Help Desk Specialist Technical Support Engineer Technical Writer Instructional Designer Application Integrator	

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EDUCATIONAL CAREER PLAN

Career Path: Industrial & Engineering Technology

Career Cluster: Science, Technology, Engineering & Mathematics

High School	9 th Grade	10 th Grade	11 th Grade	12 th Grade*
	English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English
	Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus
	Physical Science	Biology	ChemComm, Chemistry, Advanced Biology or Physics	Advanced Biology or Physics
	American History	World History	Government	Social Studies Elective
	PE Elective	Health/Personal Finance	Elective	Elective
	Fine Arts Elective	Elective	Elective	Elective
	Practical Arts Elective	Elective	Elective	Elective
	Career Major Elective(s) Ag Science I Conservation Ag Science I Animal	Career Major Elective(s) Ag Science II	Career Major Coursework:	
	Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology I or II	Business Economics Agriculture Power Greenhouse Management	Advanced Livestock Ag Business Management
Sample Careers	Engineering and Technology			
	<u>Science and Mathematics</u> Quality Control Scientist Mathematician Statistician Research Technician Biologist Chemist Economist Mechanical Engineer Geneticist Physicist			

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EDUCATIONAL CAREER PLAN

Career Path: Industrial & Engineering Technology

Career Cluster: Transportation, Distribution and Logistics

High School			
9 th Grade	10 th Grade	11 th Grade	12 th Grade*
English I	English II, Fundamental English	English III, Fundamental English	English IV, Fundamental English, Practical Senior English
Pre-Algebra, Algebra A Algebra I or Geometry	Algebra Concepts, Algebra B, Geometry Algebra II, or College Algebra	Algebra I, Geometry Concepts, Geometry, Algebra II, College Algebra, Trigonometry or Calculus	Algebra II, College Algebra, Trigonometry & Statistics or Calculus
Physical Science	Biology	ChemComm, Chemistry , Advanced Biology or Physics	Advanced Biology or Physics
American History	World History	Government	Social Studies Elective
PE Elective	Health/ Personal Finance	Elective	Elective
Fine Arts Elective	Elective	Elective	Elective
Practical Arts Elective	Elective	Elective	Elective
Career Major Elective(s) Ag Science I Conservation Ag Science I Animal	Career Major Elective(s) Ag Science II	Agriculture Power Auto Technology I	Career Major Course Work Agriculture Business Management Auto Technology II Business Technology
Additional Coursework Foreign Language or Computer Technology I	Additional Coursework Foreign Language or Computer Technology I or II		
Transportation Operations Transportation Manager Pilot Locomotive Engineer Flight Engineer and Attendants Truck and Bus Driver Air Traffic Controllers Ship and Boat Captains Aircraft Cargo Handling Supervisor Railroad Brake Signal & Switch Operator Airfield Operations Specialists Terminal Supervisor	Logistics Planning and Management <u>Logisticians</u> Logistics Manager Urban and Regional Planners Logistics Engineer and Analysts Consultants International Logistics Specialists <u>Warehouse Distribution Center Operations</u> Storage and Distribution Managers Warehouse Managers Industrial and Packaging Engineers Shipping and Receiving Supervisors <u>Facility and Mobile Equipment Maintenance</u> Electricians and Technicians Facility Maintenance Manager and Engineer Mobile Equipment Maintenance Managers, Technicians, and Mechanics Diesel Engine Specialists	Transportation Systems <u>Infrastructures Planning</u> <u>Management and Regulations</u> Traffic Engineers and Technicians Civil Engineers and Technicians Vehicle and System Inspectors Environmental Compliance Inspector Federal , State, and Local Transportation Agents <u>Warehouse Distribution Center Operations</u> Storage and Distribution Managers Warehouse Managers Industrial and Packaging Engineers Shipping and Receiving Supervisors <u>Facility and Mobile Equipment Maintenance</u> Electricians and Technicians Facility Maintenance Manager and Engineer Mobile Equipment Maintenance Managers, Technicians, and Mechanics Diesel Engine Specialists	Health, Safety and Environmental Management Health and Safety Managers Industrial Health and Safety Engineers Environmental Scientists, Specialists, Technicians, Managers and Engineers Environmental Compliance Inspectors Safety Analysts <u>Sales and Service</u> Marketing Managers Sales Managers Sales Representatives Reservation and Travel Agents Customer Service Mangers and Reps Cargo and Freight Agents Customer Order and Billing Supervisors Cashiers
Sample Careers			

* Adapted from the National Career Clusters*

This is only a suggested course of study and should be evaluated and adapted to fit your individual needs.

Name _____ Date _____

Anticipated Graduation Date _____

Four Year Education and Career Plan (ICAP)

Career Clusters	Goals after High School
Agriculture, Food, and Natural Resources	Work
Architecture & Construction	Military
Arts, A/V Technology & Communication	Vocational- Technical School
Business Management & Administrative	Two year College
Education & Training	Four year College
Finance	
Government & Public Administration	
Health Science	

Macon High School Graduation Requirements/Min. Four Year College Admission Requirements

Communication Arts	4 Units	Communication Arts	4 Units
Mathematics	3 Units	Mathematics (Alg. I and beyond)	3 Units
Science	3 Units	Social Studies	3 Units
Social Studies	3 Units	Science	3 Units
Fine Arts	1 Unit	Fine Arts	1 Unit
Practical Arts	1 Unit	**Electives (2 units of the same foreign language are strongly recommended and / or combinations of the above courses)	3 Units
Physical Education	1 Unit		
Personal Finance	.5 Unit		
Health	.5 Unit		
Electives	<u>7 Units</u>		
	24 Units		

Grade 9	Grade 10
English I	English II
World History	American History
Science	Science
Mathematics	Mathematics
Practical Art	Personal Finance (1/2 Credit)
Physical Education	Health (1/2 Credit)
Fine Arts	Elective
	Elective
Grade 11	Grade 12
English III	Communication Arts
Government	Social Studies
Science	Science
Mathematics	Mathematics
Elective	Elective
Elective	Elective
Elective	Elective

Parent / Guardian Signature _____ Date _____