

CTSO(s): □ FBLA

□ FFA □ TSA □ Skills USA

Manufacturing Program of StudySouth Iron High School Career Cluster Program of Study

This Program of Study Template can serve as a guide, along with other career planning materials, as you continue your career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. Ask your high school courselor to help you fill in the required courses you need to graduate.

Toward Found Fou	Grade	English 8 semesters	Math 6 semesters	Science 6 semesters	Social Studies 6 semesters	Other Required Courses, Recommended Electives	Career & Technical Courses and/or Degree Major Courses	SAMPLE Occupations Relating to this Pathwa
High School Math High School Science Course See your counselor for more high school offerings See your counselor for more high school offerings National Machine Mechanic Industrial Machine Mechanic Indu	9	Comm Arts I	High School Math			Computer Science Physics See your counselor for more		 ▶ Boilermaker ▶ Design Engineer ▶ Environmental Enginee ▶ Foundry Worker ▶ Freight, Stock and Material Mover
#English Comp I *Public Speaking Pre-Algebra *College Algebra *College Trig College Course General Biology - Science Course General Biology - Science Course General Biology - Welder 12 Senior Comm Arts & College Algebra *College Computer Science Course General Biology - Science Course General Biology - Welder 12 Senior Comm Arts & Comma Arts & College Algebra *College Course Course - Government & High School Math or Pre-Algebra *College Course Course - Government & High School S.S. Course - Computer Science *See counselor for additional college course offering *AVCTC Programs - Collision Repair Technology, Automotive Technology, Production Manage *Personal Finance *Personal Finance *Course *Course - Course - Cours	10	Comm Arts II	High School Math	•	_	Computer Science Physics See your counselor for more		Representative Industrial Machinery Mechanic Inspector Labor Relations Mana Logistician Manufacturing
*English Comp II *Intro to Literature *College Trig *College History I & II *Political Systems *Gen Psyche or *Command Arts elective *Tenglish Comp II *Intro to Literature *College Algebra *College Algebra *College Algebra *College Trig *College Oceanography, Astronomy or Physics *Course - Government & History *Personal Finance *Computer Science *See counselor for additional college course offerings (Available for Dual Enrollment) *Gen Psyche or	11	*English Comp I	or Pre-Algebra *College Algebra	*MFH College	Course – Government & History *Am. College History I & II *Political Systems *Gen Psyche or	*Personal Finance *Computer Science *See counselor for additional college course offering (Available for Dual	more high school offerings *AVCTC Programs- Collision Repair Technology, Automotive Technology, Welding	 ▶ Pattern and Model Mak ▶ Production Manager ▶ Quality Control Technician ▶ Safety Engineer ▶ SPC Coordinator ▶ Tool and Diemaker ▶ Traffic Manager
	12	& Comm Arts elective *English Comp II	or Pre- Algebra *College Algebra	Science Course *MFH Intro to Chem *College Oceanography, Astronomy or	Course – Government & History *Am. College History I & II	*Personal Finance *Computer Science *See counselor for additional college course offerings (Available for Dual	more high school offerings *AVCTC Programs – Collision Repair Technology, Automotive Technology, Welding	
Credit courses can often be substituted for high school credit. Check with your Counselor.					Socio			

Planning, managing, and performing the processing of materials into intermediate or final products and related professional technical support activities such as production planning and control, maintenance and manufacturing/process engineer									
Assembler Automated Manufacturing Technician Bookbinder Calibration Technician Electrical Installer and Repairer Electromechanical Equipment Assembler Extruding and Drawing Machine Setter/Set-Up Operator Extrusion Machine Operator Foundry Worker Grinding, Lapping, and Buffing Machine Operator Hand Packers and Packager Hoist and Winch Operator Instrument Maker Large Printing Press Machine Setter and Set Up Operator Machine Operator Manager, Supervisor Medical Appliance Maker Milling Machine Setter, Set-Up Operator Millwright Operator, Tender, Cutter/Brazer, Solderer, Machine Operator Painter Pattern & Model Maker Precision Layout Worker Precision Optical Goods Worker Production Associate Sheet Metal Worker Solderer and Brazer Tool and Die Maker	Design Engineer Electrical and Electronics Technician and Technologist Electronics Engineer Engineering and Related Technician and Technologist Engineering Technician Industrial Engineer Labor Relations Manager Manufacturing Engineer Manufacturing Technician Power Generating and Reactor Plant Operator Precision Inspector, Tester, and Grader Process Improvement Technician Production Manager Purchasing Agent Supervisor	Biomedical Equipment Technician Boilermaker Communication System Installer/Repairer Computer Installer/Repairer Computer Maintenance Technician Electrical Equipment Installer/Repairer Facility Electrician Industrial Electronic Installer/Repairer Industrial Facilities Manager Industrial Machinery Mechanic Industrial Maintenance Electrician Industrial Maintenance Technician Industrial Maintenance Mechanic Industrial Maintenance Technician Instrument Calibration and Repairer Instrument Control Technician Job/Fixture Designer Laser Systems Technician Maintenance Repairer Meter Installer/Repairer Millwright Plumber, Pipefitter and Steamfitter Security System Installer/Repairer	Calibration Technician Inspector Lab Technician Process Control Technician Quality Control Technician Quality Engineer SPC Coordinator	Communications, Transportation and Utilities Manager Dispatcher Freight, Stock, and Material Mover Industrial Truck and Tractor Operator Logistical Engineer Logistician Material Associate Material Handler Material Mover Process Improvement Technician Quality Control Technician Traffic Manager Traffic, Shipping, and Receiving Clerk	Environmental Engineer Environmental Specialis Health and Safety Representative Safety Coordinator Safety Engineer Safety Team Leader Safety Technician				

Quality

Assurance

Logistics & Inventory

Control

Health, Safety and

Environmental Assurance

Maintenance, Installation &

Repair

Manufacturing

Production Process

Development

Path-ways

Production

Cluster Knowledge and Skills

• Academic Foundations • Communications • Problem Solving and Critical Thinking • Information Technology Applications • Systems • Safety, Health and Environment • Leadership and Teamwork • Ethics and Legal Responsibilities • Employability and Career Development • Technical Skills