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 counselor to help you fill in the required courses you need to graduate.**

<table>
<thead>
<tr>
<th>Grade</th>
<th>English 8 semesters</th>
<th>Math 6 semesters</th>
<th>Science 6 semesters</th>
<th>Social Studies 6 semesters</th>
<th>Other Required Courses, Recommended Electives</th>
<th>Career &amp; Technical Courses and/or Degree Major Courses</th>
<th>SAMPLE Occupations Relating to this Pathway</th>
</tr>
</thead>
</table>
| 9     | Comm Arts I         | High School Math | High School Science| High School S.S.          | Personal Finance  
Computer Science  
Check with your high school counselor for additional course offerings | Ask your counselor about course options | ► Assembler  
► Boilermaker  
► Design Engineer  
► Environmental Engineer  
► Foundry Worker  
► Freight, Stock and Material Mover  
► Health and Safety Representative  
► Industrial Machinery Mechanic  
► Inspector  
► Labor Relations Manager  
► Logistician  
► Manufacturing Technician  
► Pattern and Model Maker  
► Production Manager  
► Quality Control Technician  
► Safety Engineer  
► SPC Coordinator  
► Tool and Diemaker  
► Traffic Manager  
► Welder |
| 10    | Comm Arts II        | High School Math | High School Science| High School S.S.          | Personal Finance  
Computer Science  
Check with your high school counselor for additional course offerings | Ask your counselor about course options | ► Products Manager  
► Quality Control Technician  
► Quality Assurance Engineer  
► Safety Engineer  
► Transportation Manager |
| 11    | Comm Arts III       | High School Math | High School Science| High School S.S.          | *Personal Finance  
*Computer Science  
*(Available as Dual Enrollment) | *Unitec - Collision Repair Technology, Electronics Technology, Automotive Technology, Welding Technology  
*Ask your counselor about additional college course offerings  
*Farmington PLTW Courses | ► Assembler  
► Boilermaker  
► Design Engineer  
► Environmental Engineer  
► Foundry Worker  
► Freight, Stock and Material Mover  
► Health and Safety Representative  
► Industrial Machinery Mechanic  
► Inspector  
► Labor Relations Manager  
► Logistician  
► Manufacturing Technician  
► Pattern and Model Maker  
► Production Manager  
► Quality Control Technician  
► Safety Engineer  
► SPC Coordinator  
► Tool and Diemaker  
► Traffic Manager  
► Welder |
| 12    | Senior Comm Arts & Comm Arts elective | High School Math | High School Science | High School S.S – Government History | *Personal Finance  
*Computer Science  
*(Available as Dual Enrollment) | *Unitec - Collision Repair Technology, Electronics Technology, Automotive Technology, Welding Technology  
*Ask your counselor about additional college course offerings  
*Farmington PLTW Courses | ► Assembler  
► Boilermaker  
► Design Engineer  
► Environmental Engineer  
► Foundry Worker  
► Freight, Stock and Material Mover  
► Health and Safety Representative  
► Industrial Machinery Mechanic  
► Inspector  
► Labor Relations Manager  
► Logistician  
► Manufacturing Technician  
► Pattern and Model Maker  
► Production Manager  
► Quality Control Technician  
► Safety Engineer  
► SPC Coordinator  
► Tool and Diemaker  
► Traffic Manager  
► Welder |

*Dual Credit courses can often be substituted for high school credit. Check with your Counselor.  
*Dual Enrollment courses can be taken online or on a MAC campus.

**Assessments/Certifications:** College Placement Assessments, Compass, ACT, SAT

** Clubs/Extracurricular Activities:** Ask your Counselor what is available at your school.

**CTSO(s):** □ FBLA □ FFA □ TSA □ Skills USA

**Work-Based Learning:** □ After School Employment □ Internship/Mentorship □ Job Shadowing □ Service Learning □ Supervised Business Experience
## Sample Career Specialties / Occupations

### Air/Space

- Transportation
  - Managers (Air)
  - Commercial Pilots
  - Flight Engineers
  - Flight Attendants
  - Dispatchers (Air)
- Traffic Managers
  - Air Traffic Controllers
  - Aircraft Cargo Handling
  - Supervisors
  - Airfield Operations
- Specialists

### Rail

- Transportation
  - Managers (Rail)
  - Dispatchers (Rail)
  - Traffic Managers
  - Locomotive Engineers
  - Carriers
  - Railyard Conductor and Yardmasters
  - Railroad Brake, Signal and Switch Operators
  - Railyard Engineers
  - Railcar Operators
  - and Hostlers

### Water

- Transportation
  - Managers (Water)
  - Dispatchers (Water)
  - Traffic Managers
  - Captains
  - Mates
  - Pilots of Water Vessels

### Logistics

- Oils
  - Able Seamen
  - Ordinary Seamen
- Ship and Boat Captains
- Ship Engineers
- Bridge and Lock Tenders

### Transportation: Road

- Transportation
  - Managers (Road)
  - Dispatchers (Truck/Bus/Taxi)
- Traffic Managers
  - Truck Drivers
  - (Tractor-Trailer)
  - Truck Drivers (Light or Delivery Services)
  - Bus Drivers (Transit and Intercity)
  - School Bus Drivers
  - Taxi Drivers and Chauffeurs

### Transit Systems:

- Transportation
  - Managers (Mass Transit)
  - Traffic Managers
  - Subway and Streetcar Operators

### Facility:

- Facility Maintenance
  - Managers and Engineers
  - Industrial Equipment Mechanics
  - Industrial Electricians
  - Electrical Technicians

### Mobile Equipment (General)

- Mobile Equipment Maintenance Managers
  - Electrical and Electronic Installers and Repairers (Transportation Equipment)
  - Mobile Heavy Equipment Mechanics (Air/Space)

### Aerospace Engineering

- Aircraft Mechanics and Service Technicians
  - Airframe Mechanics
  - Power Plant Mechanics
  - Aircraft Engine Specialists
  - Avionics Technicians (Water)
  - Ship Mechanics and Repairers
  - Motorboat Mechanics
  - Automotive/Truck Mechanics and Body Repairers (Rail)

### Sales and Service

- Marketing Managers
  - Sales Managers
  - Sales Representatives
  - of Transportation Logistics Services
  - Reservation, Travel
  - and Transportation Agents
  - Cargo and Freight Agents
  - Customer Service Managers
  - Cashiers, Counter
  - and Rental clerks

### Health and Safety Managers

- Industrial Health and Safety Engineers
  - Environmental Scientists and Specialists
  - Environmental Science and Protection Technicians
  - Environmental Managers and Engineers
  - Environmental Compliance Inspectors
  - Safety Analysts

### Logistics and Technical Support

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