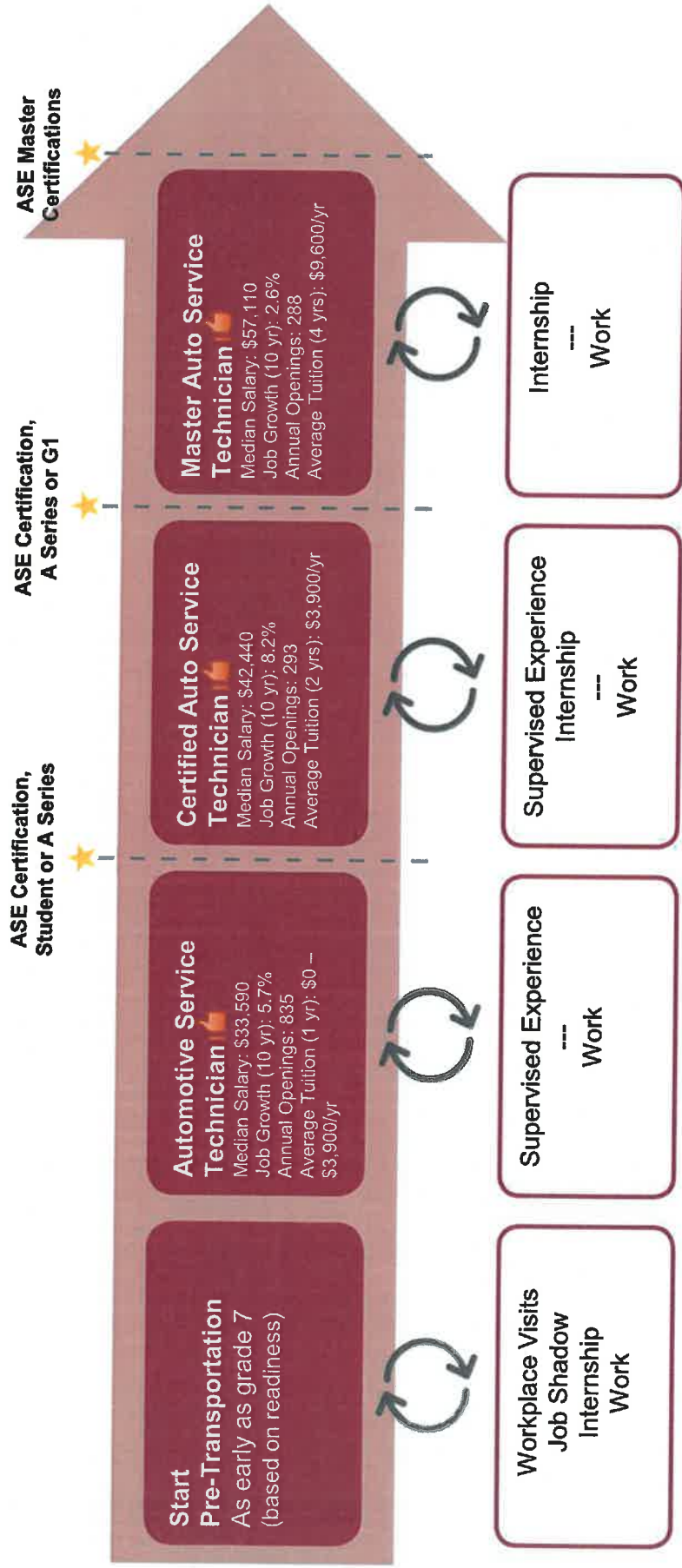




Transportation Systems Career Pathway

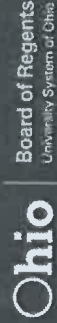


Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:
 gainful employment and/or postsecondary study.



Data reflects 2014 Ohio labor statistics and public institutions of higher education for 2013-2014. For specific tuition costs, visit ohiohighered.org.





Transportation Systems Career Pathway

Secondary Pathway: Automotive Technology Postsecondary Program: Automotive Technology

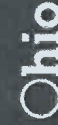
An Example of Courses with Secondary and Postsecondary Credits

| Grade | English I | Algebra I | Physical Science | Social Studies | Fine Arts | World Languages |
|------------------------|-------------------------|---------------------------------|---------------------------|----------------------------------|-----------------------------|------------------------------------|
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | English II | Geometry | Biology | World History | Health (.5) PE (.5) | Ground Transportation Maintenance |
| 10 | | | | | | Breaking, Suspension, & Steering |
| 11 | English III | Algebra II | Chemistry | U.S. History | Engine & Power Train | World Languages |
| 12 | English IV | Trigonometry/Calculus | Physics | U.S. Government | Electrical/Electronic | Transportation Capstone |
| Year 1 1st Semester | English | Computer Applications | Shop Safety & Procedures | Numerical Applications | Intro to Automotive Service | Automotive Electrical Fundamentals |
| Year 1 2nd Semester | Math | Humanities Elective | Automotive Engines | Alignment, Steering & Suspension | Braking Systems | |
| Year 2 1st Semester | Communication | Intro to Business | Economics | Automotive HVAC | Engine Performance | Automotive Field Experience |
| Year 2 2nd Semester | Automatic Transmissions | Auto Electronic Engine Controls | Auto Electrical Diagnosis | Auto Service Operations | Automotive Field Experience | |

| | |
|---|--|
| High School Career-Technical Education Program Courses | |
| High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses | |
| Required Courses | |
| Recommended Electives | |

Visit education.ohio.gov/CareerConnections for reference information.
Course titles and sequences will vary between schools.

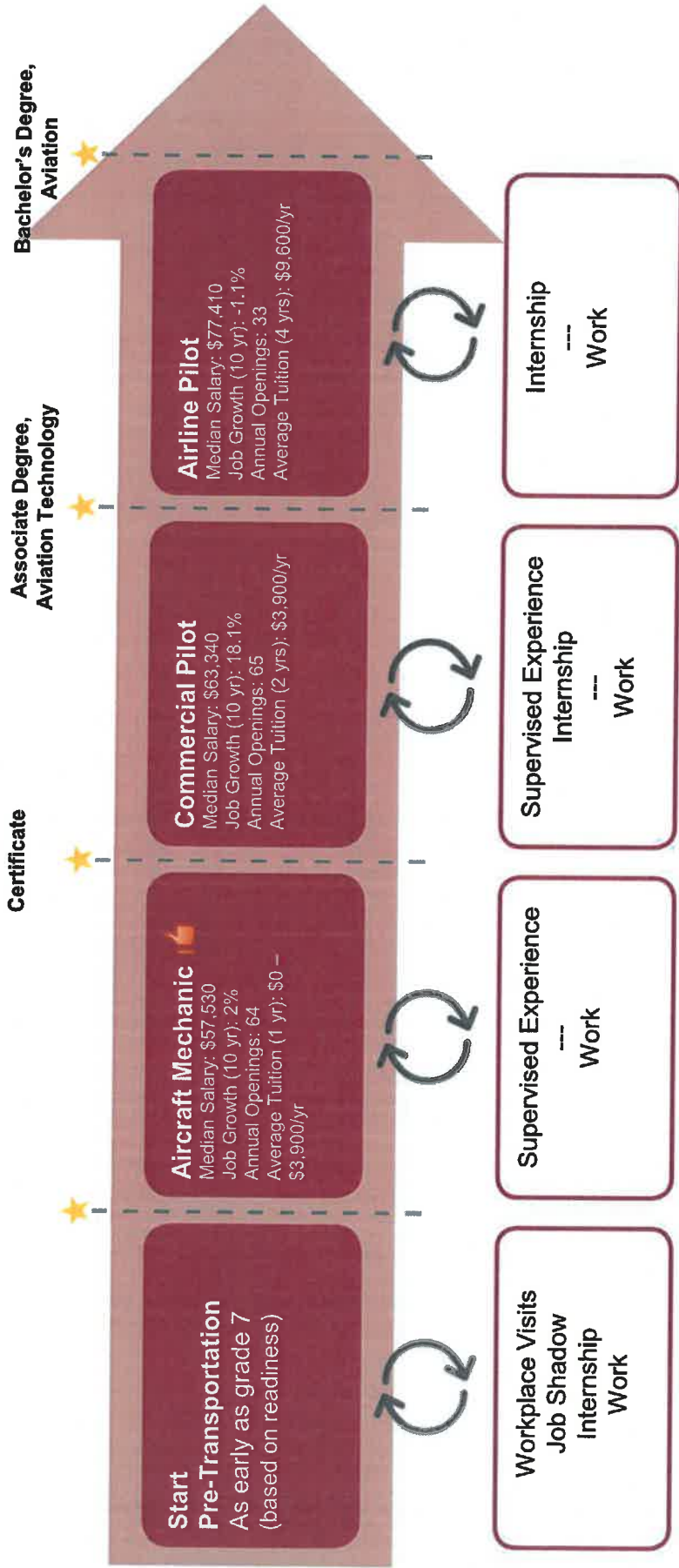
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Transportation Systems Career Pathway



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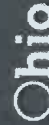
Preparing students for multiple options after high school:
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Department of Education



Board of Regents
University System of Ohio



Transportation Systems Career Pathway

Secondary Pathway: Air Transportation

Postsecondary Program: Aviation Technology

An Example of Courses with Secondary and Postsecondary Credits

| | | | | | | | | |
|---------------|------------------------|---------------------|------------------------------|---------------------------------|------------------------------------|-----------------------------------|--------------------------|----------------------------|
| Secondary | 7 8 | English I | Algebra I | Physical Science | Social Studies | Fine Arts | | |
| | 9 10 | English II | Geometry | Biology | World History | Health (.5) PE (.5) | Aviation | World Languages |
| | 11 | English III | Algebra II | Chemistry | U.S. History | Aviation Maintenance | Airframe Systems | World Languages |
| | 12 | English IV | Trigonometry/ Calculus | Physics | U.S. Government | Aviation Meteorology | Airport Management | Air Traffic Control |
| Postsecondary | Year 1 1st Semester | English Composition | College Algebra | Orientation to Aviation | Introduction to Airline Operations | Aviation Meteorology | Computer Applications | |
| | Year 1 2nd Semester | Public Speaking | Flight Simulator Instruction | Pilot Ground School | Instrument Ground School | Instrument Flight Lab | Private Pilot Flight Lab | |
| | Year 2 1st Semester | Trigonometry | Flight Instructor Flight Lab | Aerodynamics & Flight Mechanics | Commercial Pilot Ground | Aircraft Accident Investigation | Blind Flying Hazards | Flight Instructor Ground |
| | Year 2 2nd Semester | Physics | Multi Engine Flight Lab | Human Factors in Aviation | Advanced Navigation Science | Principles of Aviation Leadership | Aviation Internship | Arts & Humanities Elective |

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information.

Course titles and sequences will vary between schools.

11/2014

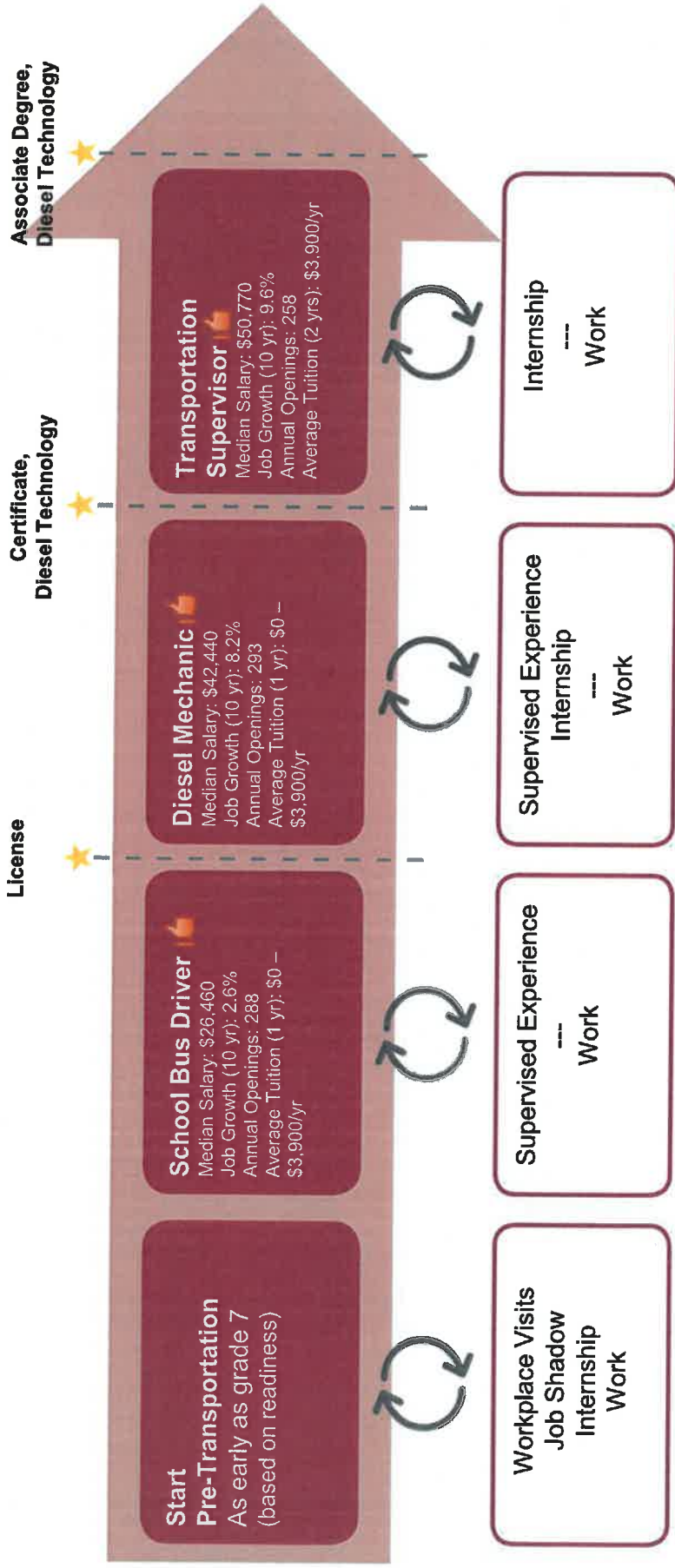
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Transportation Systems Career Pathway

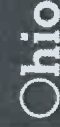


Provided by middle schools, high schools, employers, Ohio Tech Centers, and colleges.

Preparing students for multiple options after high school:
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Board of Regents
University System of Ohio



Transportation Systems Career Pathway

Secondary Pathway: Ground Transportation Postsecondary Program: Diesel Technology

An Example of Courses with Secondary and Postsecondary Credits

| Grade | English I | Algebra I | Physical Science | Social Studies | Fine Arts | | |
|--------------------------------|-----------------------------|----------------------------------|-----------------------------------|--------------------------|-------------------------------------|---|--------------------------------|
| 7 8 | English I | Algebra I | Physical Science | Social Studies | Fine Arts | | |
| 9 10 | English II | Geometry | Biology | World History | Health (.5) PE (.5) | Ground Transportation Maintenance | Braking, Suspension & Steering |
| 11 | English III | Algebra II | Chemistry | U.S. History | Engine & Power Train | Truck Brake, Suspension & Steering Sys. | World Languages |
| 12 | English IV | Trigonometry/Calculus | Physics | U.S. Government | Truck Diesel Engines | Engine Performance | Ground Transportation HVAC |
| Year 1 1st Semester | Personal Finance | Basic Electrical | Preventive Maintenance | Heavy Truck Drive Trains | Industrial & Engineering Technology | | |
| Year 1 2nd Semester | Employability Skills | Industrial Calculations | Hydraulic Theory & Operation | Fundamentals of Engines | Truck Steering & Suspension | Welding Processes | Truck Brake Systems |
| Year 2 1st Semester | English Composition | Computer Concepts & Applications | Advanced Electrical & Electronics | Heavy Truck HVAC | Social Science Elective | | |
| Year 2 2nd Semester | Interpersonal Communication | Business Communication | Customer Relations | Engine Performance | Heavy Truck Automatic Transmissions | | |

High School Career-Technical Education Program Courses

High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses

Required Courses

Recommended Electives

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Course titles and sequences will vary between schools.

6/2015

