



**Career Goal (O\*NET Code):** Maintenance and Repair Workers (49-9042), Independent Specialty Contractor (47-2000), Administrative Services Manager (11-3011), Janitors and Cleaners (37-2011), General and Operations Manager (Facilities 11-1021).

**Grade:** \_\_\_\_\_

## EXTENDED LEARNING EXPERIENCES

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|                   |                  |   |   |   |  |  |   |
|-------------------|------------------|---|---|---|--|--|---|
| Middle School     | 8th              | <i>HS Courses:</i>  |   |   |  | <i>Curricular Experiences:</i><br><a href="#">SkillsUSA</a><br><a href="#">Technology Student Association</a>  | <i>Extracurricular Experiences:</i><br>Architecture/Engineering Summer Camps<br>Historic Building Tours<br>Home Tours<br>Language Immersion Programs<br>Student Government<br>UIL Academic Competitions<br>Yearbook |
|                   | 9th              | <i>Core Courses:</i>  | English I<br>Algebra I<br>Biology   | World Geography<br>Physical Education<br>Languages other than English I | Professional Communications  |  |   |
|                   |                  | <i>Career-Related Electives:</i>  | Principles of Architecture and Construction   |   |  |  |   |
|                   | 10th             | <i>Core Courses:</i>  | English II<br>Geometry<br>Chemistry   | World History<br>Languages other than English II                        |  |  |   |
|                   |                  | <i>Career-Related Electives:</i>  | Construction Technology or Architectural Design   |   |  |  |   |
|                   | 11th             | <i>Core Courses:</i>  | English III<br>Algebra II<br>Physics or Principles of Technology I  | United States History   |  |  |   |
|                   |                  | <i>Career-Related Electives:</i>  | Mill and Cabinetmaking Technology or Career Preparation I   |   |  |  |   |
|                   | 12th             | <i>Core Courses:</i>  | English IV<br>Precalculus<br>Environmental Systems  | Government/Economics<br>Fine Arts                                       |  |  |   |
|                   |                  | <i>Career-Related Electives:</i>  | Career Preparation II   |   |  |  |   |
|                   | High School      | On-the-Job Training   | Heating, Ventilation, Air Conditioning<br>Cabinetmaking/Millworking<br>NOTE: These experiences may be started and/or completed as part of the high school experience. | Drafting/CAD<br>Electrical Trades<br>Floor Sanding/Finishing            | Masonry<br>Painting<br>Plumbing  |  |   |
| Certificates      |                  | Carpenter Apprenticeship<br>Construction Trades<br>NOTE: Students may earn all or part of these certificates as part of the high school experience. | National Occupational Competency Testing Institute-Construction Trades  | OSHA CareerSafe   | <i>Career Options:</i><br>Carpenter/Painter<br>Concrete Finisher<br>Grounds Keeper/Landscaper<br>Glazier<br>Iron/Metal Worker                            |  |   |
| Associate Degrees |                  | <a href="#">Construction Technology</a><br><a href="#">Construction Management</a><br><a href="#">Drafting and CAD</a>                              | <a href="#">Engineering Technology</a><br><a href="#">Plumbing/HVAC</a>   | <a href="#">Surveying</a><br><a href="#">Welding</a>                    | <i>Career Options:</i><br>Brickmason/Carpenter/Electrician<br>Maintenance Scheduler/Clerk<br>Engineering Technician<br>Plumber<br>Refrigeration Mechanic | <a href="#">American Institute of Architects</a><br><a href="#">American Institute of Contractors</a><br><a href="#">American Society of Heating, Refrigerating, and Air-Conditioning Engineers</a><br><a href="#">American Subcontractors Associations</a><br><a href="#">Associated Builders and Contractors</a><br><a href="#">Associated General Contractors of America</a><br><a href="#">Design Build Institute of America</a><br><a href="#">Mechanical Contractors of America</a><br><a href="#">National Association of Homebuilders</a><br><a href="#">National Association of Women in Construction</a> |   |
| Postsecondary     | Bachelor Degrees | Architectural Engineering<br>Architecture   | Construction Engineering  | Science/Management  | <i>Career Options:</i><br>Administrative Service Manager<br>Cost Estimator   | Construction & Building Inspector<br>Environmental Engineer  | <a href="#">Texas Association of Builders</a><br><a href="#">Texas Society of Architects</a>  |
|                   | Graduate Degrees | Construction Engineering  | Management  | Science/Management  | <i>Career Options:</i><br>Civil Engineer<br>Instructor/Professor   | Environmental Engineer   |   |

This plan of study serves as a guide, along with other career planning materials, for pursuing a career path and is based on the most recent information as of 2009. All plans meet high school graduation requirements as well as college entrance requirements.