



Name: \_\_\_\_\_  
 Grade: \_\_\_\_\_  
 Parent Signature: \_\_\_\_\_



## Construction & Manufacturing Program

### Career Pathway Plan of Study for ► Learners ► Parents ► Counselors ► Teachers/Faculty

This Career Cluster Plan of Study (based on the Design/Pre-Construction Program of the Architecture and Construction Career Cluster) can serve as a guide, along with other career planning materials, as learners continue on a career path. Courses listed within this plan are only recommended coursework and should be individualized to meet each learner's educational and career goals. \*This Plan of Study, used for learners at Ponaganset High School is customized with course titles and appropriate high school graduation requirements as well as career program requirements.

| EDUCATION LEVELS  | GRADE  | English/ Language Arts (4 credits)   | Math (4 credits = 3 + 1 math-related)   | Science (3 credits; 3 lab sciences for 4 year college)                      | Social Studies/ Sciences (3 credits)  | Physical Education/Health (2 credits = 0.5 x 4 years)             | Other  | Scheduling Notes  | SAMPLE Occupations Relating to This CTE Program   |
|---|--|--|---|---|---|---|--|---|---|
| <b>Interest Inventory Administered and Plan of Study Initiated for all Learners</b> |  |  |   |   |   |   |  |   |   |
| <b>GRADUATION REQUIREMENTS</b>  | 9  | English 9 CP/H OR Humanities English CP/H (1 credit)                                   | Algebra I CP OR Alg II CP/H (1 credit)  | Biology CP/H (1 credit)   | Topics in Social Studies CP/H or other SS elective (1 credit)                                       | Physical Education/Health 9/10 (0.5 credit)                       | Spanish I or Chinese I (1 credit)<br>Required for 4 yr. college students                 |   | <ul style="list-style-type: none"> <li>► Architect</li> <li>► Building Code Official</li> <li>► Building Designer</li> <li>► Civil Engineer</li> <li>► Code Official</li> <li>► Cost Estimator</li> <li>► Drafter</li> <li>► Electrical Engineer</li> <li>► Electronic Engineer</li> <li>► Environmental Designer</li> <li>► Environmental Engineer</li> <li>► Fire Prevention and Protection Engineer</li> <li>► Industrial Engineer</li> <li>► Interior Designer</li> <li>► Landscape Architect</li> <li>► Materials Engineer</li> <li>► Mechanical Engineer</li> <li>► Regional and Urban Planner</li> <li>► Safety Director</li> <li>► Specification Writer</li> <li>► Structural Engineer</li> <li>► Surveying and Mapping Technician</li> </ul> |
|   | 10   | English 10 CP/H (1 credit)   | Geometry CP/H OR Algebra II CP (1 credit)   | Physical Science CP/H (1 credit)  | U.S. History CP/H/EEP/AP (1 credit)   | Physical Education/Health 9/10 (0.5 credit)                       | Spanish II or Chinese II (1 credit)<br>Required for 4 yr. college students               |   |   |
|   | 11   | English 11 CP/H OR Language (1 credit) AP  | Algebra II CP OR PreCalc CP/H OR Stats (1 credit)   | Chemistry OR Physics CP/H (1 credit)  | Twentieth Century CP/H or other SS elective (1 credit)  | Physical Education/Health 11/12 or Strength Training (0.5 credit) | Spanish III or Chinese III (1 credit)<br>Recommended for many 4 yr. college students     |   |   |
|   | <b>College Placement Assessments-Academic/Career Advisement Provided</b> |  |   |   |   |   |  |   |   |
| <b>GRADUATION REQUIREMENTS</b>  | 12   | English 12 CP/H OR AP Literature (1 credit)  | PreCalculus, Principles of Stats, AP Statistics, Personal Finance, AP Calculus or math-related course | AP Biology / AP Chemistry / AP Physics / AP Environmental (1 credit)        | Elective: Economics, US/Global Affairs, Sociology, etc.   | Physical Education/Health 11/12 or Strength Training (0.5 credit) | Spanish IV H/EEP or Chinese IV (1 credit)<br>Recommended for some 4 yr. college students |   |   |
|   | <b>PLAN of STUDY: Program Courses and Additional Electives</b>           |  |   |   |   |   | <b>TOTAL CREDITS</b>   | <b>SCHEDULING REMINDERS</b>   |   |
|   |  | <b>Manufacturing Concentration</b>   | <b>Construction Management Concentration</b>  |   |   |   |  |   |   |
| <b>CAREER RELATED ELECTIVES</b>   | 9  | Material Processing (1 credit)   | Material Processing (1 credit)  | Mandatory for the Program   |   |   | Fine Art elective (0.5 credits)  | <p>*All plans of study need to meet learner's career goals and program requirements.</p> <p>*All course selections should meet required annual credit maximum.</p> <p>*All course requests are utilized to build the master schedule for the following school year.</p> <p>*Please be sure to select the appropriate courses at the time of registration.</p> <p>*Participation in Skills USA and appropriate work-based learning activities support and reinforce classroom and laboratory learning is recommended for all students.</p> |   |
|   | 10   | Fabrication (1 credit)   | Construction (1 credit)   | Mandatory for the Program   |   |   |  |   |   |
|   | 11   | Manufacturing (1 credit)   | Construction Management (1 credit)  | Mandatory for the Program   |   |   |  |   |   |
|   | 12   | Advanced Manufacturing OR PLTW Engineering Design & Development-Honors (1 credit each) | PLTW Engineering Design & Development-Honors OR Plans, Codes & Site Work (1 credit each)              | Must take a minimum of 3 years of manufacturing courses - 4 is recommended. | <b>RECOMMENDED COURSES:</b> Math for Industry; Alg II with Financial Applications; College Writing. |   |  |   |   |