

Academy of Architecture & Construction

Career Cluster: Architecture & Construction

Program Strand: Welding Technology

Students who choose a career in Welding Technology are knowledgeable in the use of hand-welding, flame-cutting, hand soldering, or brazing equipment to weld or join metal components or to fill holes, indentations, or seams of fabricated metal products.

Secondary Career Academy Development Timetable Academy classes are listed in bold type.

| Pre-Academy Grades 6 – 8 | Grade 9 | Grade 10 | Grade 11 | Grade 12 |
|--|---|---|---|---|
| 6 th grade—Middle Moves 7 th grade—Career Preparation Requirement 8 th grade—Transition Tools | English I | English II | English III | English IV |
| | Algebra or higher | Geometry or higher | Algebra II or higher | Pre-calculus or Other Mathematics Course |
| | Earth & Space Science or Biology | Biology or Chemistry | Chemistry or Physics or Physical Science | Science Elective or Other Elective |
| | World History | Elective | American History | American Government / Economics |
| | 9 th Grade Transition | Foreign Language or Other Elective | Foreign Language or Other Elective | Foreign Language or Other Elective |
| | Welding Technology 1 875451001 | Welding Technology 3 875453001 | Welding Technology 5 875455001 | Welding Technology 7 875457001 |
| | Welding Technology 2 875452001 | Welding Technology 4 875454001 | Welding Technology 6 875456001 | Welding Technology 8 875458001 |
| | Elective | Elective | Elective | Industrial Cooperative Education (I.C.E.) |

Suggested Electives:

- Students may in their Junior or Senior year opt to participate in the Career Experience Opportunity (CEO) internship program using the following course numbers: Workplace Essentials – 83003101A (Honors .5) and CEO internship – 0500330CE (Honors .5).
- Students may complete more than one program within the Academy of Architecture and Construction providing courses are offered at the school site.
- In addition, students can choose to enroll in Materials and Processes Technology or Construction Technology classes to enhance their marketability.

To find a Miami-Dade County Public High School with this Program Strand, please link to http://ssr.dadeschools.net/acad_tally_schls.pdf

| Internship Opportunities | Student Organizations / Clubs | Earn Upon Completion |
|--|---|---|
| <ul style="list-style-type: none"> • Internship • Job Shadowing • School-Based Enterprise • Service Learning • Dual Enrollment • Portal to CEO | <ul style="list-style-type: none"> • SkillsUSA | <ul style="list-style-type: none"> • Industry Title & FLDOE OCP's correlated to the individual areas. • For more information on the Florida Department of Education Bright Futures Scholarship Programs: Florida Academic Scholars Award (FAS), Florida Medallion Scholars Award (FMS), and Florida Gold Seal Vocational Scholars Award (GSV) please contact a guidance counselor or visit: http://www.floridastudentfinancialaid.org/ssfad/factsheets/BF.htm. • For more information on advanced standing at local public and private post secondary institutions as established per articulation agreements please contact a guidance counselor. |

POSTSECONDARY OPTIONS

| Certification Programs | Community College (A.A./A.S.) or Proprietary Programs | Four-Year College and University Programs | Other |
|--|--|---|---|
| <ul style="list-style-type: none"> • American Welding Society | <ul style="list-style-type: none"> • Welding Technology | <ul style="list-style-type: none"> • Metallurgical Engineering | <ul style="list-style-type: none"> • On the job training |

CAREER OPTIONS

| Entry Level | After Post-Secondary Education |
|--|--|
| <ul style="list-style-type: none"> • Welder Helper • Shielded Metal Arc Welder Helper • Gas Metal Arc Welder Helper • Flux Cored Arc Welder Helper • Gas Tungsten Arc Welder Helper • Pipe Welder Helper | <ul style="list-style-type: none"> • Welder • Metallurgical Engineer • Welding Machine Operator • Welding Technician • Welding Schedule Developer • Welding Instructor • Welding Procedure Writer • Testing Laboratory Technician • Welding Non Destructive Testing Inspector • Welding Supervisor • Welding Engineer |