Southeast Missouri Regional Tech Prep Education Program Course of Study

Welding Technology

Area Career Center or Comprehensive High School
Career Pathway:

Required for Admission:
• Average or Above Reading Ability

Prerequisite or co-requisite:
• Applied Mathematics I and II or Algebra I

All prerequisite courses must be completed with a grade of "C" or above

Not Required for Admission but Strongly Recommended High School Courses:
• Applied Communications
• Algebra II
• Principles of Technology I & II or Physics
• Geometry

Communication Electives (1 Written & 1 Oral)
ENG132 Applied Communications * (3) (Written)
ENG133 English Composition I+ (3) (Written)
ENG144 Public Speaking+ (3) (Oral)
ENG167 Interpersonal Communications I (3) (Oral)
TEC104 Technical Writing * (3) (Written)

Human Development Electives
SOC113 General Sociology (3)
SOC140 Human Relations+ (3)
PSY113 General Psychology I+ (3)
PSY116 Applied Psychology (3)

History/Psychology Science Electives
HIS123 American History I (3)
HIS124 American History II (3)
POS113 American National Government+ (3)
POS114 American State and Local Government+ (3)
POS133 International Relations (3)

Mathematics Electives
MAT113 Intermediate Algebra * (3)
MAT114 Applied Mathematics * (3)
MAT123 College Algebra+* (3)
MAT133 Trigonometry+* (3)
MAT160 Calculus for Business/Social Sciences+* (3)
MAT165 Analytical Geometry & Calculus I * (5)
MAT215 Analytical Geometry & Calculus II * (5)
TEC190 Technical Mathematics I * (3)
TEC191 Technical Mathematics II * (3)

Physical Science Electives
Any Science course with a PHS prefix
TEC107 Unified Technical Concepts I+* (4)
TEC108 Unified Technical Concepts II+* (4)

Computer Literacy Electives
CIS105 Introduction to Computers (3)
CIS175 Microcomputer Applications * (3)

* Designates courses with prerequisites
+ Designates recommended courses for students planning to transfer to another institution or another program in the future

MINERAL AREA COLLEGE
ASSOCIATE OF APPLIED SCIENCE
WELDING TECHNOLOGY

WLD102 Orientation to Welding (cc)......................3
WLD110 Welding Print Read/Layout/Fab (cc).........3
WLD116 Shielded Metal Arc Welding (cc)............3
WLD118 Adv. Shielded Metal Arc Welding (cc).....3
WLD120 Gas Metal Arc Welding (cc)..................3
WLD122 Flux Cored Arc Welding (cc)................3
WLD124 Gas Tungsten Arc Welding (cc)..............3
WLD130 Plasma Arc Cutting (cc).......................3
WLD140 Metallurgy and Heat Treating (cc)........3
WLD150 Carbon Arc Gouging (cc)......................3
WLD160 Desr., Non-Des., Visual Weld Tst.(cc)....3
WLD170 Welding Technical Internship I..............3
WLD172 Welding Technical Internship II............3
PAW106 Preparation for Employment (cc)..........1
PAW120 Occupational Leadership Dev. I (cc).....1
PAW122 Occupational Leadership Dev. II (cc)....1

Communication Electives (6):

--- 3
--- 3

Human Development Elective (3):

--- 3

History/Psychology Science Elective (3):

--- 3

Mathematics Electives (6 - 10):

--- ( )
--- ( )

Physical Science Elective (3 - 5):

--- ( )

Computer Literacy Elective (3):

--- ( )

Total Cr. Hrs. 66 - 72

(cc) These courses are available only through the area career centers.

Revised: November, 2002