

ID#: \_\_\_\_\_

Student: \_\_\_\_\_

**Mechanical Electives – 9 cr hrs**

- TEC1000 Machine Shop I (6)
- TEC1160 Machine Shop II\* (6)
- TEC1300 Computer Aided Design/Drafting (3)
- TEC1520 Construction Methods and Estimating (3)
- TEC1560 Manuf Processes and Estimating (3)
- TEC1780 Blueprint Reading\* (3)

**Electrical Electives – 9 cr hrs**

- EEE1500 Basic Electronics (3)
- EEE1550 Electrical Systems (3)
- EEE1580 Practical Electronics I (3)

**Electronics Electives – 9-11 cr hrs**

- EEE1810 Solid State Electronics (5)
- EEE1940 Digital Computer Electronics\* (4)
- EEE1970 ..... Programmable Logic Controllers\* (3)
- TEC1770 Computer Numerical Control\* (3)

**Power Electives – 7-8 cr hrs**

- TEC1070 Unified Technical Concepts I\* (4)
- TEC1080 Unified Technical Concepts II\* (4)
- TEC2030 Basic Fluid Power (3)

**Manufacturing Electives – 6 cr hrs**

- MFG1000 Principles of Maintenance (3)
- MFG1030 Intro to Quality Theory (3)
- MFG1050 Supply Chain Mgt & Dist (3)
- MGT1310 Project Management\* (3)
- MGT1730 Safety Management (3)
- TEC1560 Mfg Processes and Estimating (3)
- TEC1580 Quality Control and Testing Fund (3)
- TEC1640 Environmental Analysis (3)

**Additional Electives – 4-6 cr hrs**

- EEE1600 Practical Electronics II\* (3)
- EEE1710 National Electric Code\* (3)
- TEC1100 Technical Internship \* (3)
- TEC1730 Problem Analysis (1)

**Communications Electives – 6 cr hrs** (1 Written & 1 Oral)

- ENG1330 English Composition I \* + (3) (written)
- ENG1440 Public Speaking + (3) (oral)
- ENG1670 Interpersonal Communications I (3) (oral)
- TEC1040 Technical Writing \* (3) (written)

**Human Development Electives – 3 cr hrs**

- PSY1130 General Psychology I + (3)
- PSY1160 Applied Psychology (3)
- PSY1250 Human Growth & Development (3)
- SOC1130 General Sociology (3)
- SOC1230 Social Problems (3)
- SOC1540 Intro to Cultural Anthropology (3)
- SOC1600 Ethnicity & Cultural Differences (3)

**History/Political Science Electives – 3 cr hrs**

- HIS1230 American History I (3)
- HIS1240 American History II (3)
- POS1130 American National Government < (3)
- POS1140 American State & Local Government < (3)
- POS1180 American Political Systems+ (3)

**Mathematics Electives – 6-10 cr hrs**

See List on Back

**Science Electives – 3-5 cr hrs**

See List on Back

**Computer Literacy Electives – 3 cr hrs**

- CIS105 Intro to Computers (3)
- CIS175 Microcomputer Applications \* (3)

+ Recommended course for transfer students.  
 \* Course has prerequisite. See MAC Catalog.

Gen Ed Cr Hrs..... 24-30  
 Major Cr Hrs..... 45-50  
 Total Cr Hrs..... 69-80

**NOTE: See graduation policies on back.**

**MINERAL AREA COLLEGE  
 ASSOCIATE OF APPLIED SCIENCE**

**Industrial Maintenance  
 (Major Code: IM)**

Mechanical Electives (9 Cr Hrs)

\_\_\_\_\_ ( ) \_\_\_\_\_  
 \_\_\_\_\_ ( ) \_\_\_\_\_  
 \_\_\_\_\_ ( ) \_\_\_\_\_

Electrical Electives (9 Cr Hrs)

\_\_\_\_\_ ... 3 \_\_\_\_\_  
 \_\_\_\_\_ ... 3 \_\_\_\_\_  
 \_\_\_\_\_ ... 3 \_\_\_\_\_

Electronics Electives (9-11Cr Hrs)

\_\_\_\_\_ ( ) \_\_\_\_\_  
 \_\_\_\_\_ ( ) \_\_\_\_\_  
 \_\_\_\_\_ ( ) \_\_\_\_\_

Power Electives (7-8 Cr Hrs)

\_\_\_\_\_ ( ) \_\_\_\_\_  
 \_\_\_\_\_ ( ) \_\_\_\_\_

Manufacturing Electives (6 Cr Hrs)

\_\_\_\_\_ ... 3 \_\_\_\_\_  
 \_\_\_\_\_ ... 3 \_\_\_\_\_

Additional Electives (4-6 Cr Hrs)

\_\_\_\_\_ ( ) \_\_\_\_\_  
 \_\_\_\_\_ ( ) \_\_\_\_\_

PAW106 Prep for Employment ..... 1 \_\_\_\_\_

Communication (1 written & 1 oral):

\_\_\_\_\_ ... 3 \_\_\_\_\_  
 \_\_\_\_\_ ... 3 \_\_\_\_\_

Human Development:

\_\_\_\_\_ ... 3 \_\_\_\_\_

History/Political Science:

\_\_\_\_\_ ... 3 \_\_\_\_\_

Mathematics:

\_\_\_\_\_ .. 3-5 \_\_\_\_\_  
 \_\_\_\_\_ .. 3-5 \_\_\_\_\_

Science:

\_\_\_\_\_ .. 3-5 \_\_\_\_\_

Computer Literacy:

\_\_\_\_\_ ... 3 \_\_\_\_\_

**Total Program Credits..... 69-80**

GPA: \_\_\_\_\_

TSA Date: \_\_\_\_\_

Advisor: \_\_\_\_\_

## **Associate of Applied Science Industrial Maintenance**

### **Mathematics Electives – 6-10 cr hrs**

MAT1130 Intermediate Algebra \* (3)  
MAT1230 College Algebra \* + (3)  
MAT1330 Trigonometry \* + (3)  
MAT1600 Calculus for Business/Soc. Sciences \* (3)  
MAT1650 Analytical Geometry & Calculus I \* (5)  
MAT2150 Analytical Geometry & Calculus II \* (5)  
TEC1900 Technical Math I \* (3)  
TEC1910 Technical Math II \* (3)

### **Science Electives – 3-5 cr hrs**

BIO1150 General Biology (5)  
BIO1250 General Botany (5)  
BIO1350 General Zoology (5)  
BIO1430 Environmental Science (3)  
PHS1130 Physical Science \* (5)  
PHS1200 Introductory Astronomy (3)  
PHS1230 Oceanography (3)  
PHS1250 Introductory Chemistry \* (5)  
PHS1350 General Chemistry I \* (5)  
PHS1420 College Physics I \* (4)  
PHS2230 General Physics I \* (4)  
PHS2400 Earth Science (5)  
PHS2420 Earth Science I (3)  
PHS2430 Earth Science II (3)  
TEC1070 Unified Technical Concepts I \* (4)  
TEC1080 Unified Technical Concepts II \* (4)

### **GRADUATION POLICIES: (Diplomas and Certificates)**

1. An Application for Graduation form must be filed with the Registrar's Office by the end of the second week of the fall and spring terms and by the end of the first week of the summer term. Contact advisor for assistance.
2. All degree applicants are required to complete an Exit Exam.
3. All applicants are required to complete a graduation interview with the Career Placement Office.
4. A cumulative 2.0 grade point average is required for graduation.
5. Last fifteen (15) hours must be earned at Mineral Area College.