

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

**Communications Electives – 1 course**

- ENG 1330 English Composition I \* + (3) (written)
- ENG 1440 Public Speaking + (3) (oral)
- ENG 1670 Interpersonal Communications I (3) (oral)
- TEC 1040 Technical Writing \* (3) (written)

**Human Development Electives – 1 course**

- PSY 1130 General Psychology I + (3)
- PSY 1160 Applied Psychology (3)
- PSY 1250 Human Growth and Development (3)
- SOC 1130 General Sociology (3)
- SOC 1230 Social Problems (3)
- SOC 1540 Introduction to Cultural Anthropology (3)
- SOC 1600 Ethnicity and Cultural Differences In America (3)

**Mathematics Electives – 1 course**

- MAT 1130 Intermediate Algebra \* (3)
- MAT 1230 College Algebra \* + (3)
- MAT 1330 Trigonometry \* + (3)
- MAT 1600 Calculus for Business/Soc. Sciences \* (3)
- MAT 1650 Analytical Geometry & Calculus I \* (5)
- MAT 2150 Analytical Geometry & Calculus II \* (5)
- TEC 1900 Technical Math I \* (3)
- TEC 1910 Technical Math II \* (3)

**Physical Science Electives – 1 course**

- BIO 1100 Introduction to Biological Science (3)
- BIO 1150 General Biology (5)
- BIO 1250 General Botany (5)
- BIO 1350 General Zoology (5)
- BIO 1430 Environmental Science (3)
- PHS 1130 Physical Science \* (5)
- PHS 1200 Introductory Astronomy (3)
- PHS 1230 Oceanography (3)
- PHS 1250 Introductory Chemistry \* (5)
- PHS 1350 General Chemistry I \* (5)
- PHS 1420 College Physics I \* (4)
- PHS 2230 General Physics I \* (4)
- PHS 2400 Earth Science (5)
- PHS 2420 Earth Science I (3)
- PHS 2430 Earth Science II (3)
- TEC 1070 Unified Technical Concepts I \* (4)
- TEC 1080 Unified Technical Concepts II \* (4)

**Computer Literacy Electives – 1 course**

- CIS 1050 Introduction to Computers (3)
- CIS 1750 Microcomputer Applications\* (3)

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

\* Designates courses with prerequisites.

(CC) These courses are available through Participating Area Career Centers.

NOTE: See graduation policies on back

**MINERAL AREA COLLEGE  
CERTIFICATE PLAN**

**CERTIFICATE  
Machine Tool Technology  
(Major Code: MO)**

Sem/Yr		Grade
_____	TEC 1000 Machine Shop I (CC) .....	6 _____
_____	TEC 1160 Machine Shop II * (CC).....	6 _____
Required Technical Courses:		
_____	TEC 1300 Computer Aided Design/Drafting. ....	3 _____
_____	TEC 1320 Adv Comp Aided Design/Drafting * .....	3 _____
_____	TEC 1790 Basic Numerical Control Program.....	3 _____
	Total Core Credits .....	21
Communications Elective: (1 course)		
_____	_____ .....	3 _____
Human Development Elective: (1 course)		
_____	_____ .....	3 _____
Mathematics Elective: (1 course)		
_____	_____ .....	3-5 _____
Physical Science Elective: (1 course)		
_____	_____ .....	3-5 _____
Computer Literacy Elective: (1 course)		
_____	_____ .....	3 _____
_____	<u>TSA0000</u> Technical Skills Assessment .....	0 _____
	Total General Education Credits .....	15 - 19
	Total Credit Hours	36 - 40

Student's GPA: \_\_\_\_\_

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

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

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 applicants are required to complete an Exit Exam and a Technical Skills Assessment.
3. All applicants are required to complete a graduation interview with the Career Services Director.
4. A cumulative 2.0 grade point average is required for graduation.
5. Last fifteen (15) hours must be earned at Mineral Area College.