

CERTIFICATE OF ACHIEVEMENT

This certificate prepares students to operate surveying equipment and provides them with a comprehension of legal surveying principles and state laws regarding surveying and mapping. It also acquaints students with advanced boundary and survey adjustments and with Global Positioning Systems applications. Students are prepared for employment with civil engineering and surveying firms or they may continue their studies to complete the AAS degree in Land Surveying.

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Comprehend the problem solving and the analysis of raw and computed data as related to surveying.
- Comprehend and utilize the proper usage of surveying field equipment.
- Comprehend and utilize the proper interpretation of surveying data used within construction application.
- Comprehend applicable legal aspects and terminology to land surveying.
- Comprehend and utilize global positioning satellite controlled equipment as used in land surveying.

GENERAL EDUCATION REQUIREMENTS (3 Credits):

| | CR | SEMESTER |
|---|-----|----------|
| COMMUNICATIONS: BUS 108, COM 101, 102, 215, ENG 100, 101, 102, 107, 113, 114, 205, JOUR 102, THTR 105 | 3-5 | _____ |

SPECIAL PROGRAM REQUIREMENTS (44 Credits):

| | CR | SEMESTER |
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| CADD 100 Introduction to Computer Aided Drafting | 3 | _____ |
| CADD 230B Civil Drafting I | 4 | _____ |
| GIS 109 Introduction to Geographic Information Systems | 3 | _____ |
| MATH 128 Precalculus and Trigonometry OR MATH 126 Precalculus I AND MATH 127 Precalculus II | 5-6 | _____ |
| SUR 161 Elementary Surveying | 4 | _____ |
| SUR 162 Advanced Surveying | 4 | _____ |
| SUR 261 Legal Aspects of Surveying | 3 | _____ |
| SUR 262 Principles of Land Surveying | 3 | _____ |
| SUR 263 Civil Survey Design | 3 | _____ |
| SUR 264 Introduction to Global Positioning Systems | 3 | _____ |
| SUR 265 Introduction to Construction Surveying | 4 | _____ |
| SUR 266 Land Development | 3 | _____ |
| SUR 268 Surveying Project | 2 | _____ |

Computation included in MATH 126, 127, or 128

Human Relations included in SUR 261

47
Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

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