SURVEYING AND MAPPING, BS

Bachelor of Science in Surveying and Mapping (298103BS)

More on the Land Surveying and Surveying and Mapping programs (https://www.uakron.edu/engineering/ce/undergraduate/surveying-mapping/)

Program Information and Program Description

The Bachelor of Science in Surveying and Mapping program is an upper level degree program designed to provide the student with additional education beyond the A.A.S. degree in Land Surveying. This degree is also designed to meet the formal education requirements for registration as a Professional Surveyor in the state of Ohio.

This upper level degree program is defined as follows:

- The first two years are completed as an AAS degree in Land Surveying (https://bulletin.uakron.edu/undergraduate/colleges-programs/engineering-polymer-science/engineering-science-technology/land-surveying-aas/) or similarly based program.
- Two of the remaining three years are for the completion of prescribed course work.
- The remaining year of the three years is devoted to a cooperative work experience in the surveying and mapping field. The student normally enters the co-op segment between the junior and senior years.

The BS in Surveying and Mapping degree program includes classroom, laboratory, and industry experiences which stress the application of established surveying and mapping knowledge.

This degree program is accredited by the Applied and Natural Science Accreditation Commission of ABET, http://www.abet.org.

Requirements for Admission

Applicants for the Surveying and Mapping program must hold an associate degree in Land Surveying from an accredited program or provide an equivalent academic background. The applicant must have a minimum cumulative grade point average of out of a possible 4.0. Applicants with an associate degree in a discipline other than Land Surveying will be required to complete a specific formal set of courses as specified at the time of admission. Final approval for admission is based upon recommendations from the Director of the Surveying and Mapping Program.

Cooperative Work Study Requirement

The required Cooperative Work Study experience of the Surveying and Mapping program consists of 52 weeks of surveying work experience which may begin after the student has completed 34 hours of course work in the Surveying and Mapping program. This program may be satisfied by any one of the following options:

1. One calendar year with appropriate cooperative education course registration.
2. Three semesters (Summer I and II counts as one semester for the co-op) with appropriate cooperative education course registration.
3. Department review of prior or concurrent work experience.

Students having prior or concurrent work experience should submit to the Surveying and Mapping Co-op Review Committee appropriate documentation before signing their program contract. The Surveying and Mapping Co-op Review Committee will determine whether this work experience satisfies the co-op requirement. All students must be cleared through the Cooperative Education Office.

Requirements for Graduation

- Compliance with the requirements of the general education program as outlined in the Bulletin.
- Completion of the requirements for the associate degree in Land Surveying at The University of Akron or an approved associate degree program. Students transferring from another institution must have their transcripts evaluated to ensure that they have the required number of credits in surveying courses. Those found deficient must complete lower level surveying course work before upper level surveying and mapping courses can be taken.
- Successful completion of a minimum of 124 credits in the B.S. in Surveying and Mapping program including the associate degree program, the general education courses, the one-year co-op, and the Year 3, Year 4, and Year 5 course requirements.

The following information has official approval of The Department of Civil Engineering and The College of Engineering and Polymer Science, but is intended only as a supplemental guide. Official degree requirements are established at the time of transfer and admission to the degree-granting college. Students should refer to the Degree Progress Report (DPR) which is definitive for graduation requirements. Completion of this degree within the identified time frame below is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others. The transfer process is completed through an appointment with your academic advisor.

3rd Year

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<th>Fall Semester</th>
<th>Hours</th>
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<tr>
<td>2030:345</td>
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<td>2985:201</td>
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<td>3300:222</td>
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<th>Spring Semester</th>
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<td>3400:210</td>
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2. Boundary Control & Legal Principles
3. Applied Photogrammetry
4th Year

Fall Semester
Cooperative Work Study

Hours 0

Spring Semester
Cooperative Work Study

Hours 0

Summer Semester
Cooperative Work Study

Hours 0

5th Year

Fall Semester

2980:415 Legal Aspects of Surveying 3
2980:422 Global Positioning System Surveying 3
2980:431 Senior Seminar 2
3350:443 Urban Applications in GIS 3

Surveying Electives 1 2

Select one of the following:

3370:421 Coastal Geology

Complex Issues Requirement

Hours 16

Spring Semester

2420:103 Essentials of Management Technology 3
2980:421 Subdivision Design 2 3
2980:430 Surveying Project 3
2980:xxx Surveying Elective 1 2
5550:211 First Aid & Cardiopulmonary Resuscitation 2

Select one of the following:

7100:210 Visual Arts Awareness
7500:201 Exploring Music: Bach to Rock
7900:200 Viewing Dance

Arts Requirement

Hours 16

Total Hours 63

1 Surveying Electives - see below.
2 Traditionally Spring only (See Program Contact).
3 Traditionally Fall only (See Program Contact).

Policy Alert: By the end of your first 48 credit hours attempted, you must have completed your required General Education English, Mathematics, and Communications (Speech) requirements.

Surveying Electives

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<tr>
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<th>Title</th>
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<td>2880:151</td>
<td>Industrial Safety &amp; Environmental Protection</td>
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<td>2980:325</td>
<td>OSHA Safety Requirements for Surveyors</td>
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<td>2980:335</td>
<td>The Business of Surveying</td>
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<td>2980:420</td>
<td>Route Surveying</td>
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<td>2980:425</td>
<td>Land Navigation</td>
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<td>History of Surveying To 1785</td>
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<td>2980:428</td>
<td>History of Surveying Since 1785</td>
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<td>2980:445</td>
<td>Applications in GIS using GPS</td>
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