INSTRUCTOR:  William F. Eichfeld,  
OFFICE:  ENGR B, Room 30
453-7838 (Office)  
OFFICE HOURS:  1:00 - 3:50 p.m. MW
457-5242 (Home-Before 9:00 p.m.)  
1:00 - 2:50 p.m. T
eichfeld@engr.siu.edu

Laboratory Instructor:  Rex Gower
rexgower@siu.edu

Lecture sections are on Mondays and Wednesdays at 9:00 a.m.  
Laboratory sections are on Thursdays.

Important Facts:  

ISBN 9780470496619

OBJECTIVES: This is a beginning course in surveying designed to introduce students to the principles and equipment of surveying and the profession of surveying.

CATALOG An introductory course designed to introduce the principles, theory, and equipment of surveying. Development of survey field practices on the earth’s surface and subsurface and related computations. Prerequisite: MATH 111.

DESCRIPTION: An introductory course designed to introduce the principles, theory, and equipment of surveying. Development of survey field practices on the earth’s surface and subsurface and related computations. Prerequisite: MATH 111.

GRADING: Exam 1 20 %  90 % - 100 % = A
Exam 2 20 %  80 % - 89 % = B
Homework 10 %  70 % - 79 % = C
Laboratory 25 %  60 % - 69 % = D
Final Exam 25 %  0 % - 59 % = F

LABORATORY: **Laboratory Attendance is Required!**

LATE WORK: Late work will not be accepted.
1. Use engineering computation paper for your homework problems.
2. Work each problem completely and show all work neatly.
3. Homework is due at the beginning of the period on the due date.

SCHEDULE, Week of:
8/22   Introduction, Organization, & Surveying Measurements & Errors 
       Chapters 1, 2, & 24
8/29   Distance Measurement & Survey Units and Conversions 
       Chapters 3 & 4
9/05   (Labor Day – No class on Monday) Surveying Equipment (Transit, Theodolite, Total Stations), Chapter
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Chapters</th>
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<tr>
<td>9/12</td>
<td>Angles (Measurement) and Types</td>
<td>9, 10, &amp; 11</td>
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<td>9/19</td>
<td>Direction (Azimuth &amp; Bearing) and Meridians</td>
<td>9, 10, &amp; 11</td>
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<td>9/28</td>
<td>Traversing (Closed &amp; Radial) and Traverse Computations</td>
<td>11 &amp; 12</td>
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<td>10/03</td>
<td>EXAM 1, Traverse Computations and Rectangular Coordinates</td>
<td>11 &amp; 12</td>
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<td>10/10</td>
<td>(Fall Break – no class on Monday) Traverse Adjustments and Area</td>
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<tr>
<td>10/17</td>
<td>Elevations: Levels &amp; Leveling</td>
<td>6, 7, &amp; 8</td>
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<td>10/24</td>
<td>Profile Leveling and Cross Sections</td>
<td>6, 7, &amp; 8</td>
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<td>10/31</td>
<td>Coordinate Geometry (Inverse and Intersection)</td>
<td>13</td>
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<td>11/07</td>
<td>Coordinate Systems, Datums, Chapter 13 (Veteran’s Day on Friday-no classes)</td>
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<td>11/14</td>
<td>Topographic Mapping (Methods &amp; Types) and Contours</td>
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<td>11/21</td>
<td>EXAM 2, (Thanksgiving – no class on Wednesday or Thursday)</td>
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<td>11/28</td>
<td>Public Land System, Chapter 21</td>
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<td>12/05</td>
<td>Horizontal Curves, Vertical Curves, Chapters 22 &amp; 23</td>
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<tr>
<td>12/12</td>
<td>Final Exam Week</td>
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**FINAL EXAM**
Friday, December 16, 2016
8:00 a.m. – 10:00 a.m.
Each Laboratory Team will receive a Laboratory grade. If you attend and participate in all of the Laboratories that will be your individual Laboratory grade. If you do not attend your Laboratory, your individual grade will be reduced for each unexcused absence.