Ohio Articulation Number (OAN)  
Course Submission Form  
2005-2006

College/University  Owens Community College

Course(s) Submitted (Title & Course #)  SVT 230 Land and Route Surveying 
for 
Ohio Articulation Number  OET 015 Surveying

Date  28 October 2006  Course  1  of a  1  Course OAN mapping.

Name and title of individual submitting on behalf of the college/university

Name  Bruce Busby  Title  Vice President for Academic Services

Address  P.O. Box 10,000  
Toledo OH 43699-1947

E-mail  Bruce_Busby@Owens.edu

Phone  (567) 661-7567

Fax  (567) 661-7366

Credit Hours  3  qtr  _____  sem  X

Lecture Hours  2  (if applicable)

Laboratory Hours  3  (if applicable)

Pre-Requisites(s) Course work (if applicable)

MTH 111, CIV 101 or SVT 102

Placement Score (if applicable)

(Domain)  (Score)

Catalog/Course Description (Includes Course Title and Course #)

Explores the principles of surveying with tradition and modern survey equipment. 
Emphasis is placed on turning angles, taping line, determining elevations, calculating 
areas, layout of roadway curves, topography, mapping and route surveying.

Texts/Outside Readings/Ancillary Materials
# Course Objectives and/or Plan of Work

Explores the principles of surveying with tradition and modern survey equipment. Emphasis is placed on turning angles, taping line, determining elevations, calculating areas, layout of roadway curves, topography, mapping and route surveying.

# Description of Assessment and/or Evaluation of Student Learning

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Grade Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tests (2)</td>
<td>40%</td>
<td>90 - 100 = A</td>
</tr>
<tr>
<td>Labs</td>
<td>30%</td>
<td>80 – 89 = B</td>
</tr>
<tr>
<td>Homework</td>
<td>20%</td>
<td>70 - 79 = C</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10%</td>
<td>60 - 69 = D</td>
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<tr>
<td></td>
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<td>0 - 59 = F</td>
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</tbody>
</table>

# Master Syllabi and Working Syllabi (if both are used)

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## Program Name:
Surveying Technology

## Course Name:
Land and Route Surveying

## Course Number:
SVT 230

## Credits:
3

## Contact Hours:
2 Lecture 3 Lab

## Instructor’s Name:
Thomas E. Silva, P.S.

## Office Hours & Location:
1/2 Hour before or after class, other times by appt.

## Home Phone:
419-897-5088

## E-mail:
tomsilva@zande.com or tomsilva@bex.net

## Catalog Description:
Explores the principles of surveying with tradition and modern survey equipment. Emphasis is placed on turning angles, taping line, determining elevations, calculating areas, layout of roadway curves, topography, mapping and route surveying.

## Prerequisites/Co-Requisites:
MTH 111, CIV 101 or SVT 102

## Current Textbooks, Materials, Equipment (software/hardware requirements):
Surveying: Principles and Applications,  
By: Barry Kavanagh, Prentice-Hall, Seventh Addition

Field Exercise Book, by: William C. Mason

Leitz Field Book

TOOLS / EQUIPMENT / MATERIALS REQUIRED: Drafting Kit, field clothes, Boots (at least no open toe shoes), Electronic Calculator, and Raingear.

General Information
For information on FERPA, Cheating and Plagiarism, Assessment of Student Learning Outcomes and Student Code of Conduct, please refer to the appropriate section of the current Owens Community College Catalog online.

Grading Procedure: (i.e., include the way in which the grade is calculated)

Tests (2) 40%  90 - 100 = A
Labs 30%  80 – 89 = B
Homework 20%  70 - 79 = C
Quizzes 10%  60 - 69 = D
0 - 59 = F

GENERAL RULES:
1. No smoking, drinking, or eating in classrooms or laboratories.
2. Attendance although not mandatory is expected.
3. No make-up quizzes or tests will be given without prior arrangement.
4. In the event of an absence from class, it is the student’s responsibility to obtain missed notes, handouts, and assignments
5. All college-wide rules as presented in the STUDENT HANDBOOK will be enforced. Please note policies on CHEATING.
6. Copying of COPYRIGHTED SOFTWARE is PROHIBITED.
ASSIGNMENTS WILL ONLY RECEIVE HALF CREDIT. Missed laboratory work will be handled on a case-by-case basis. i.e. not all labs can be made up.

8. All assignments are due at beginning of next class period unless otherwise stated by the instructor.

9. The student must maintain a clean and orderly work area.

10. The student is expected to have computational means available during all classes and labs.

11. The student is responsible for all work assigned, whether discussed in class or not.

Disability Resources Services: If you have a disability or acquire one, you may be entitled to receive individualized services and/or accommodations intended to assure you an equal opportunity to participate in and benefit from the program. To receive more information or to apply for services, please contact the Disability Resources Services Office.

Disclaimer: “The instructor reserves the right to amend this syllabus as deemed necessary and will communicate such amendment to the students in the course.”

<table>
<thead>
<tr>
<th>Week</th>
<th>Lecture</th>
<th>Laboratory</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction and Surveying Fundamentals - Chapter 1</td>
<td>Equipment Introduction, levels, transits, Sokkia and Topcon Total Stations and GPS Equipment. Witnessing and Pacing Traverse Points</td>
</tr>
<tr>
<td>2</td>
<td>Taping – Chapter 2</td>
<td>Measuring Distance. Measuring Traverse.</td>
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<tr>
<td>3</td>
<td>Holiday – No Class</td>
<td>Holiday – No Class</td>
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<tr>
<td>4</td>
<td>Leveling – Chapter 3</td>
<td>Introduction to Leveling Differential Leveling</td>
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<tr>
<td>5</td>
<td>Leveling Continued</td>
<td>Running a Level Circuit through Traverse Points</td>
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<tr>
<td>Page</td>
<td>Chapter/Section</td>
<td>Description</td>
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<td>6</td>
<td>Pipeline Surveys – Chapter 15.10</td>
<td>Profile Leveling</td>
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<td>7</td>
<td>Angles &amp; Directions – Chapter 4</td>
<td>Plotting a Survey, using basic mathematical relationships and their relationship to the surveying process.</td>
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<td>8</td>
<td>Angles and Instruments</td>
<td>Review / Introduction to the Transit and Total Station. Measuring ET employee Parking with Total Station.</td>
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<td>9</td>
<td>MIDTERM</td>
<td>Weather Date or Extra Practice</td>
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<td>10</td>
<td>Traverse Surveying – Chapter 6</td>
<td>Closing the Horizon</td>
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<td>11</td>
<td>Traverse Surveying Continued</td>
<td>Measuring the Angles of a Triangle</td>
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<tr>
<td>12</td>
<td>Traverse Surveying Continued</td>
<td>Traverse</td>
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<tr>
<td>13</td>
<td>Highway Curves – Horizontal Chapter 14</td>
<td>Traverse and Computations</td>
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<tr>
<td>14</td>
<td>Highway Curves – Vertical Chapter 14</td>
<td>Traverse and Computations</td>
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<td>Mapping from a Traverse</td>
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<td>15</td>
<td>Quantity and Final Surveys Chapter 8</td>
<td>Mapping from a Traverse – Drawing</td>
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<tr>
<td>16</td>
<td>Topography and Maps – Chapter 8</td>
<td>Mapping from a Traverse – Drawing Construction Staking, Stakeout of a Horizontal Curve</td>
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<td>Additional Documentation</td>
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<tr>
<td>8</td>
<td>Final Exam</td>
<td>Final Exam 8:00 AM – 9:45 AM</td>
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<td>OBR Use</td>
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<td>Additional Information Requested</td>
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<td>Rejected</td>
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<td>Date</td>
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</table>
Ohio Articulation Number Form Directions

This form is used to submit your course information to the Ohio Board of Regents, for all courses that make up OAN requirements. This document is a form, so the only fields that need to be filled in can be. When you open this, make sure the top of the screen, where the name of the document is displayed, says “Document1” or something similar to that. When you open this form from a location other than inside of word, it creates a blank template to fill in. Please fill it in with the appropriate course information from your institution. All of the fields in this document are expandable, and will grow to fit as much data in them as you need. Note that these fields are implemented as MS Word tables. Keep that in mind as you are copying and pasting between your syllabi and this form.

Once you are done entering your course information, you need to save this file. Since Word opened a blank version of this file, you will need to rename it to save it. Under file, choose “Save as” and then enter the name of the file. The naming scheme for this form is Institution-Year-OAN number-Course Title.

Example, if you were ABC Community College, and you were submitting your Calculus110 course, the name of the file would be ABC-2005/06-OMT005-Calculus110. If two (or more) courses are required to fulfill that same OAN, you would submit ABC-2005/06-OMT005-Calculus110Calculus111.

When you are done with your submissions, please send them electronically to the Ohio Board of Regents at atpanels@regents.state.oh.us so we can keep your information on file.

If you encounter any problems or have any questions, please contact any of the individuals listed bellow:

Jim Ginzer (614) 752-9486 jginzer@regents.state.oh.us

Sam Stoddard (614) 752-9532 sstoddard@regents.state.oh.us

Nick Wilson (614) 466-4158 nwilson@regents.state.oh.us