INTRODUCTION

A knowledge of the earth's surface and how people interact with it is essential to the practice of landscape design. A landscape designer needs to understand the issues of grading and drainage to 1) aid in determining correct use or activity and plant selection or an area, 2) troubleshoot on a clients' behalf concerning any possible site problems, 3) converse intelligently with other design professionals, such as Civil Engineers, and 4) prepare a workable grading plan suitable for a clients' need. On the surface (no pun intended) this course could be considered simply a study of water flowing in a controlled manner. In more depth, however, a design cannot be considered "good" if it is impractical or pitted with drainage problems. From the perspective of a landscape designer, grading can be considered sculpture, i.e. learning the practical side of the art of land design. Remember, Michelangelo started in a marble quary.

OBJECTIVE

The intent of HORT 336 is to develop and expand the student's knowledge of surveying, grading, surface drainage and the horizontal and vertical elements of circulation systems. Most importantly every student should be able to read and manipulate contour lines easily and understand how slope, berms and swales to direct water flow.

METHODS

HORT 336 is primarily a lecture/studio course. The majority of your learning experience will be through homework, project assignments, plus in-class exercises and critiques. Pop quizzes and assignments will be based on lectures and assigned reading material. Thus it is important to have your textbook during class time. Each student will also be required to develop and maintain a notebook which will be reviewed and evaluated at the end of the semester. This notebook should be considered a working professional notebook. The notebook should include assignments, handouts, exercises, class notes, work sheets, etc. At the beginning of the semester a few of the assignments will be graded check, check plus, and check minus this is to give you a chance to get use to general homework requirements and they will be part of your notebook grade. The notebook will be worth 20 points of your homework grade.

Students will be allowed to generate homework assignments in AutoCAD or by hand. For the most part, base plans in AutoCAD will be provided.
Each student will be required to hand in a sheet of lettering (alphabet and numeric) usually every Wednesday by the end of class until it is signed. Blobs will also be assigned like in HORT 232. In pencil on A size vellum or trace. Once they are signed put them in your notebook and you are done.

This course will be taught from the concept of building knowledge through repetition. The initial exercises may seem quite simple; however, each additional exercise will require you to add more information. Slowly but surely we will add more and more information. By the end of the semester, you will be amazed at how much you have learned. Also, I will drop 20 points from the homework grades this is intended to reduce stress so that you can miss an assignment if needed for sickness or other reasons, lateness etc. (the majority of assignments will be due at 9 o’clock)

Every student will be assigned a number which will be used in place of your name on all of your assignments. This is to insure student confidentiality when returning work and class grading.

** Pro-Green and PLANET Student Career Fair 2014 ****

** COURSE POLICIES **

Lectures shall begin promptly at 9 o’clock on Wed. and Mon. Attendance of lectures and during studio time is crucial to the success of your learning experience. Reference materials and problem assignment will be handed out during lecture periods and individual critics during studio time are unquestionably the best methods to achieve your highest grade. During studio time you will be responsible for having certain working materials to make studio a success (see Materials List). Also, it is highly recommended to work on projects in the studio. You will find it of great benefit to learn from others as well as teach others, and the inconvenience of lugging supplies from home to studio does become tiresome. Studio policies are simple use: common sense, courtesy, and if you have a problem, say something before it becomes big.

**HONOR PLEDGE:** I will not give, receive, or use any unauthorized assistance.

Examples of the Honor Pledge endorsed by the Associated Students of Colorado State University and other information regarding penalties, academic Integrity etc. may be found on the TILT Academic Integrity website.

**GRADES**

All projects and exercises shall be evaluated in terms of 1) accuracy of technical content such as correct slope, notes, scales, north arrows etc., 2) creativity and depth of design solution and 3) organization, legibility and graphic quality of drawings; in other words all work should be approached and developed in a professional manner (scales, north arrow etc.). **Tracing/copying of other students homework is Not Allowed** - see above.
A: Excellent academic performance such as: understanding of correct drainage (water drains away from structures efficiently), technical data is complete and accurate, graphic quality is excellent and work is submitted on time. Mistakes are minor and could easily and quickly be corrected without returning to the drafting table.

B: Good academic performance (see above qualities). Minor mistakes which would require additional notation at the drafting board.

C: Average academic performance. Mistakes are apparent which seriously affect solution and would require revision of drawings or rechecking of calculations.

D: Poor academic performance. Major mistakes which would render an unworkable solution.

F: Failing work not submitted or solution is totally unworkable.

Late projects will be penalized one letter grade per (24-hour) day (i.e., late 1 day, max. grad = B, late 2 days max. grade = C, etc.). If a student wishes to discuss a project after grades have been issued, contact the instructor within one week from the date the project was returned.

Homework: 20%             Mid-term Exam: 20%
Two major projects: 40%                                Final Exam: 20%

**MATERIALS LIST**

**Texts:** Strom and Nathan; *Site Engineering for Landscape Architects*, 2009. *(Bring to class every day.)*

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<tr>
<th>Required</th>
<th>Suggested</th>
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<tbody>
<tr>
<td>Calculator</td>
<td>Eraser</td>
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<tr>
<td>Large 3-ring binder</td>
<td>Metal erasing shield</td>
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<tr>
<td>Engineering scale</td>
<td>Mechanical pencils</td>
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<tr>
<td>Architectural scale</td>
<td>Leads (at least one soft and one hard)</td>
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<td>Drafting tape</td>
<td>Drawing pencils - 2H-2B</td>
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<td>Black felt tip markers (at least two widths)</td>
<td>Graph paper - <strong>10 squares per inch</strong></td>
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<td>Trace paper - choose a size and color that you need</td>
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<td>Cardboard for models</td>
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**5 lbs.** Of clay to share with a partner - Kleen Clay (1 lb approximately $3.00) or Plastalina (get the softer type #2 - 2 lbs app. $9.00) or another brand is okay as long as it can be put in water and reused. Some available in studio.

Other materials will be designated throughout the semester.