Civil Engineering and Architecture
Project Lead the Way
Tentative Syllabus
2015-2016

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Office Hours: Open door policy

Textbook: None

Meeting Time: MTWRF: First Period (at CBHS)

Grading Policy

Letter grade assignments conform to the CBHS standard. This can be found in the CBHS Academic Catalogue. Below is the grade component break-down.

Notebooks	= 10%
Homework	= 20%
Problem Sets	= 10%
Quizzes	= 10%
Projects	= 20%
Mid-Quarter Exam	= 10%
Quarter Exam	= 20%

Notebooks

Two notebooks should be kept throughout the school year. One will be an engineering notebook, provided at the beginning of the year. This engineering notebook should include any relevant notes you take in class, as well as assignment sketches and intermediate project work. A second notebook should be kept to organize all returned graded assignments. This second notebook will be purchased by the student and may be any style, although a three-ring binder will be most appropriate. Both of these notebooks will be checked periodically, without notice.

Homework

In general, homework will be assigned several times per week and will be due at the beginning of the specified class period. Under no circumstances will late homework be accepted. If homework is not turned in AT THE BEGINNING of the following class period, a zero will be awarded for that homework assignment. There may be some extra credit opportunities during the semester.

Problem Sets

Problem sets are assignments that consist of problems covering topics that you should have learned in the past. They will generally be assigned on a Monday and be due the following Monday. They will generally consist of problems from pre-algebra, algebra 1, geometry, and material from earlier in this course. The formatting for problem sets is not as strict as the homework assignments. You do not need a title page and you do not need to divide each problem into a Given and Solution section. All you need to do is show all of your work (with units, if applicable), use engineering paper, and draw all figures with a straight edge. Problem sets are due at the beginning of the specified class period. Like homework assignments, late problem sets will not be accepted.

Quizzes

There will generally be one quiz per week, usually on a Friday, but there also may be pop quizzes. They will generally be held at the very beginning of class. Quizzes cannot be made up. If you are absent or late and miss a quiz, you will receive a zero on that quiz. Quizzes generally be very similar to homework problems. The quizzes will be P.L.T.W. EOC style quizzes. I will let you know at the beginning of the quiz exactly how much time you will have. Quizzes will be multiple choice and no partial credit will be awarded. Your quiz grade is additive. What that means is that you will start with a zero quiz grade. Each time we have a quiz, that grade will be added to your current quiz grade. There will be more than 100 possible points during the quarter so it will be possible to earn over a 100% for your quiz grade.

Projects

There will be several projects throughout the school year. Formatting for the projects will be similar to homework formatting and will be strictly enforced. All typed work should be done using Times New Roman, 12 point font unless otherwise specified. A title page is required on all projects or they will not be accepted. See my website for correct formatting for ALL formal typed assignments. Formal typed assignments may not be limited to projects. Specific details of individual project requirements will be given at the time of the project assignments.

Mid-Quarter Exam

This exam will be roughly in the middle of the quarter and will cover material from the entire first half of the quarter.

Quarter Exam

This exam will cover material from the entire quarter.

Homework Requirements

1) Engineering computation paper is required for hand written work.
2) A title page printed off of the computer is required for each homework assignment. See attachment for sample title page.
3) Write the page number at the top right corner of each page (not including the title page).
4) All problems should be divided into Given and Solution sections.
5) Work from left to right, top to bottom.
6) All sketches should be drawn with a straight edge.
7) Box in final answers.
8) Use one side of the paper only.
9) Always show units (on intermediate calculations and final results).
10) Perform intermediate calculations by rounding to four significant digits and round final answers to three significant digits.
11) Begin each problem on a new sheet of paper.
12) Staple all sheets of paper together in the top left corner.
13) Be neat and organized.
14) Any typed assignment should be done in Times New Roman, 12 point font unless otherwise noted.

Failure to do any of these requirements will result in a deduction of points from that assignment.

Professionalism

It is good to form a habit of behaving in a professional manner. Behavior that is prohibited includes: the use of inappropriate language; playing with cell phones, tablets, or laptops in class; falling asleep; being disrespectful to the professor or fellow classmates; not addressing a professor (*any* professor) by his/her appropriate title; and putting legs/feet on the tables or desks. If a student engages in any of this behavior, he may be asked to leave the class.

Presentations

Many assignments in this course will involve giving formal oral presentations. Failure to dress or act appropriately during presentations will result in a deduction in points for the assignment.

Fatal Errors

Fatal errors are errors that you SHOULD NOT be making at this level of your academic career. They include, but are not limited to: calculations of simple areas and volumes, manipulations of linear equations, confusing “there”, “their”, and “they’re”, confusing “to”, “too”, and “two”, confusing “who’s” and “whose”, confusing “your” and “you’re”, sentence fragments, and ending a sentence with a preposition. Making errors such as these may result in an automatic zero on the problem in question.

Utilizing source material that is not your own is acceptable as long as you cite the source properly. For correct citation procedures, you may utilize MLA formatting or ASCE requirements for citations. You may find the ASCE requirements for citations on my website. Failure to properly cite source material may result in an automatic zero on the assignment in question.

Other Required Materials

1) Always bring a straight-edge to class.
2) Always bring a pencil and pen to class.
3) Always bring your scales to class.
4) Always bring your computers to class.
5) Always be well-stocked with engineering computation paper.

Tentative Schedule for Spring 2016

Date	*Day*	*Topic*
5-Jan	T	2.3.1 (Affordable Housing)
6-Jan	W	2.3.2 (Green Building)
7-Jan	R	2.3.2 (Green Building)
8-Jan	F	2.3.3 (Designing for the Client)
11-Jan	M	2.3.3 (Designing for the Client)
12-Jan	T	2.3.5 (Residential Foundations)
13-Jan	W	2.3.5 (Residential Foundations)
14-Jan	R	2.3.6 (Residential Electrical Systems)
15-Jan	F	2.3.6 (Residential Electrical Systems)
18-Jan	M	HOLIDAY
19-Jan	T	2.3.7 (Residential Site Planning)
20-Jan	W	2.3.7 (Residential Site Planning)
21-Jan	R	2.3.8 (Residential Water Supply)
22-Jan	F	2.3.8 (Residential Water Supply)
25-Jan	M	2.3.8 (Residential Water Supply)
26-Jan	T	2.3.9 (Residential Plumbing)
27-Jan	W	2.3.9 (Residential Plumbing)
28-Jan	R	2.3.10 (Wastewater Management)
29-Jan	F	2.3.10 (Wastewater Management)
1-Feb	M	2.3.11 (Property Drainage)
2-Feb	T	2.3.11 (Property Drainage)
3-Feb	W	2.3.11 (Property Drainage)
4-Feb	R	Unit 2
5-Feb	F	Unit 2
8-Feb	M	Unit 2
9-Feb	T	Unit 2
10-Feb	W	Unit 2
11-Feb	R	Unit 2
12-Feb	F	Unit 2

Date	*Day*	*Topic*
15-Feb	M	HOLIDAY
16-Feb	T	Unit 2
17-Feb	W	Unit 2
18-Feb	R	Unit 2
19-Feb	F	Unit 2
22-Feb	M	Water Purification
23-Feb	T	2.3.1 (Affordable Housing)
24-Feb	W	2.3.1 (Affordable Housing)
25-Feb	R	2.3.1 (Affordable Housing)
26-Feb	F	2.3.1 (Affordable Housing)
29-Feb	M	Water Purification
1-Mar	T	Water Purification
2-Mar	W	Review
3-Mar	R	Review
4-Mar	F	Quarter 3 Exam
7-Mar	M	3.1
8-Mar	T	3.1
9-Mar	W	3.1
10-Mar	R	3.1
11-Mar	F	3.1
14-Mar	M	3.2
15-Mar	T	3.2
16-Mar	W	3.2
17-Mar	R	3.2
18-Mar	F	3.2
21-Mar	M	HOLIDAY
22-Mar	T	HOLIDAY
23-Mar	W	HOLIDAY
24-Mar	R	HOLIDAY
25-Mar	F	HOLIDAY

Date	*Day*	*Topic*
28-Mar	M	HOLIDAY
29-Mar	T	3.3
30-Mar	W	3.3
31-Mar	R	3.3
1-Apr	F	3.3
4-Apr	M	3.3
5-Apr	T	3.3
6-Apr	W	3.3
7-Apr	R	3.3
8-Apr	F	3.3
11-Apr	M	3.4
12-Apr	T	3.4
13-Apr	W	3.4
14-Apr	R	3.4
15-Apr	F	3.4
18-Apr	M	HOLIDAY
19-Apr	T	3.4
20-Apr	W	3.4
21-Apr	R	3.4
22-Apr	F	3.4
25-Apr	M	4.1
26-Apr	T	4.1
27-Apr	W	4.1
28-Apr	R	4.1
29-Apr	F	4.1
2-May	M	4.1
3-May	T	4.1
4-May	W	4.2
5-May	R	4.2
6-May	F	4.2

Date	*Day*	*Topic*
9-May	M	4.2
10-May	T	4.2
11-May	W	4.2
12-May	R	Review
13-May	F	Review
16-May	M	Review
17-May	T	Review
18-May	W	Review

HW # 1

by

Andrew Kary Mehdi Assadollahi

A Homework Assignment

Submitted in Partial Fulfillment of the

Requirements for

Civil Engineering and Architecture

Christian Brothers High School

January, 2016