

CIVE 200

Intro. to CIVIL ENG.

LECTURE -1
Sept. 4-2014



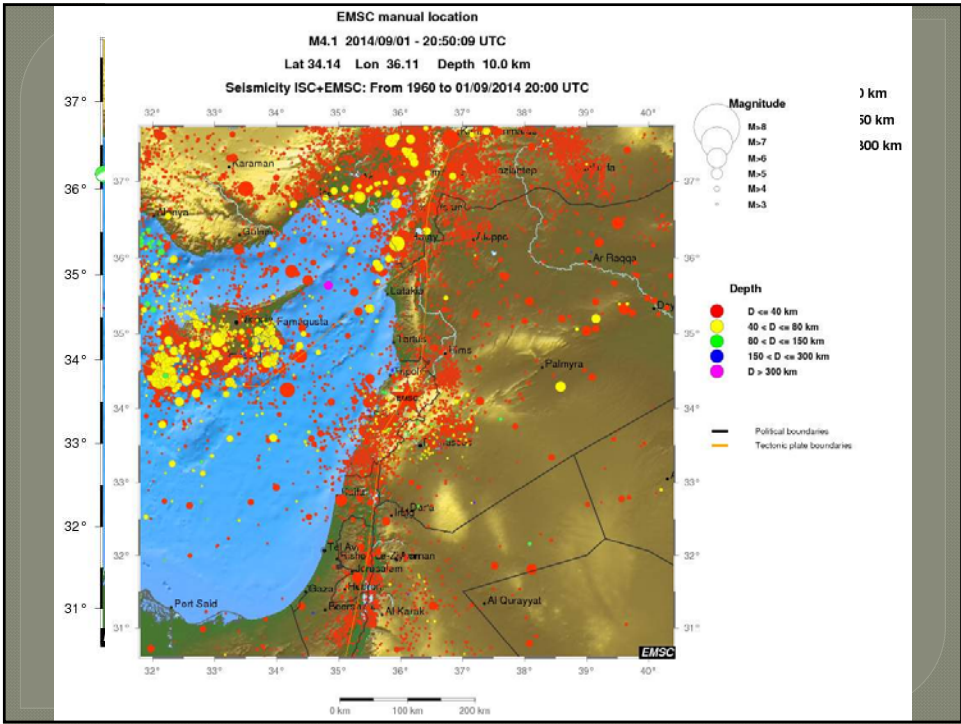
FALL 2014-15

ASCE Definition of CE (1961)

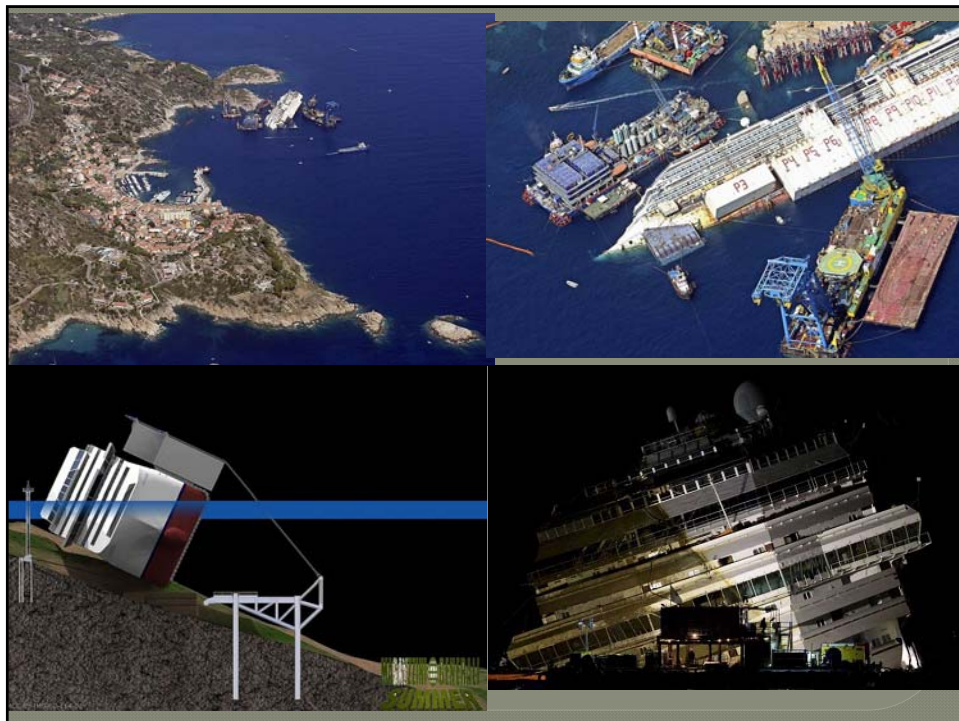
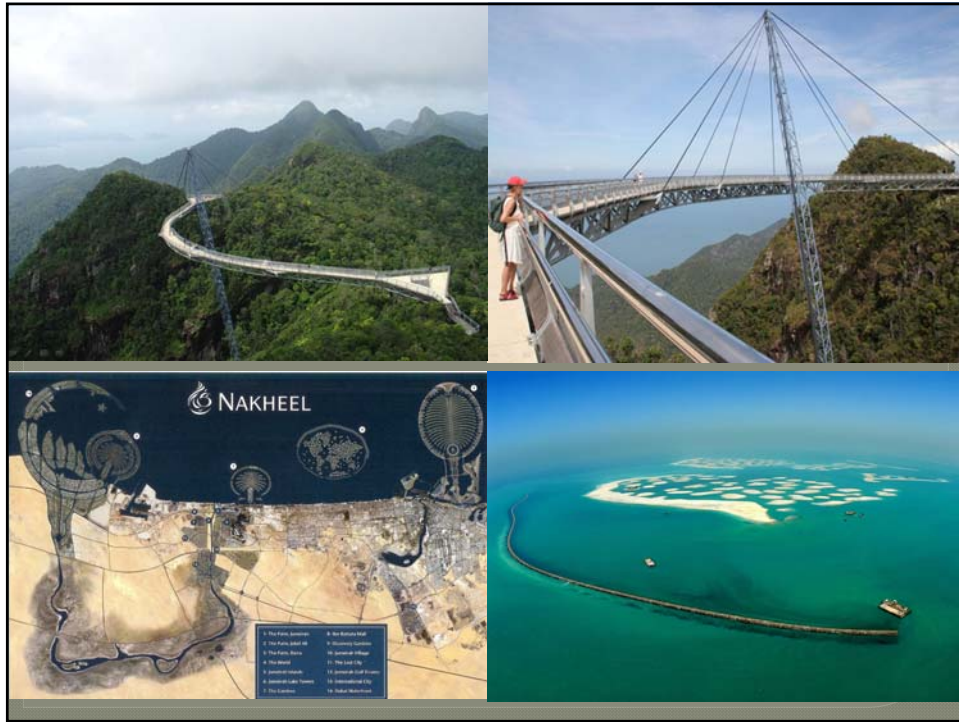
"Civil engineering is the profession in which a knowledge of the **mathematical** and **physical** sciences gained by *study, experience, and practice* is applied with *judgment* to develop ways to utilize, *economically*, the materials and forces of nature for the **progressive well-being of humanity** in creating, improving, and protecting the *environment*, in providing *facilities for community living, industry and transportation*, and in providing structures for the use of humanity."

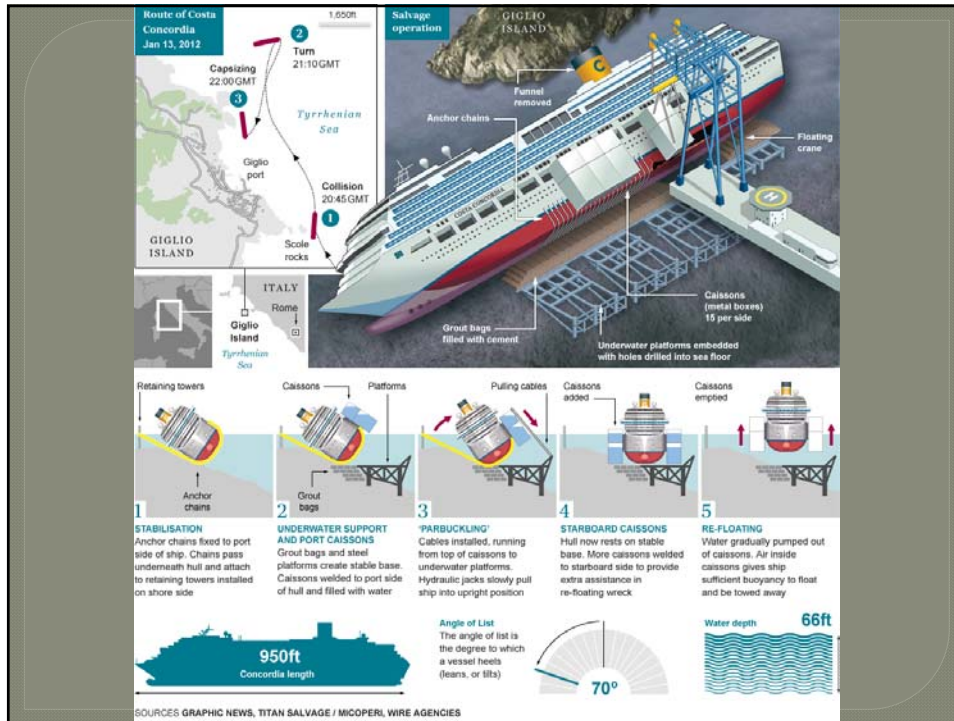
Insert Your Own Definition

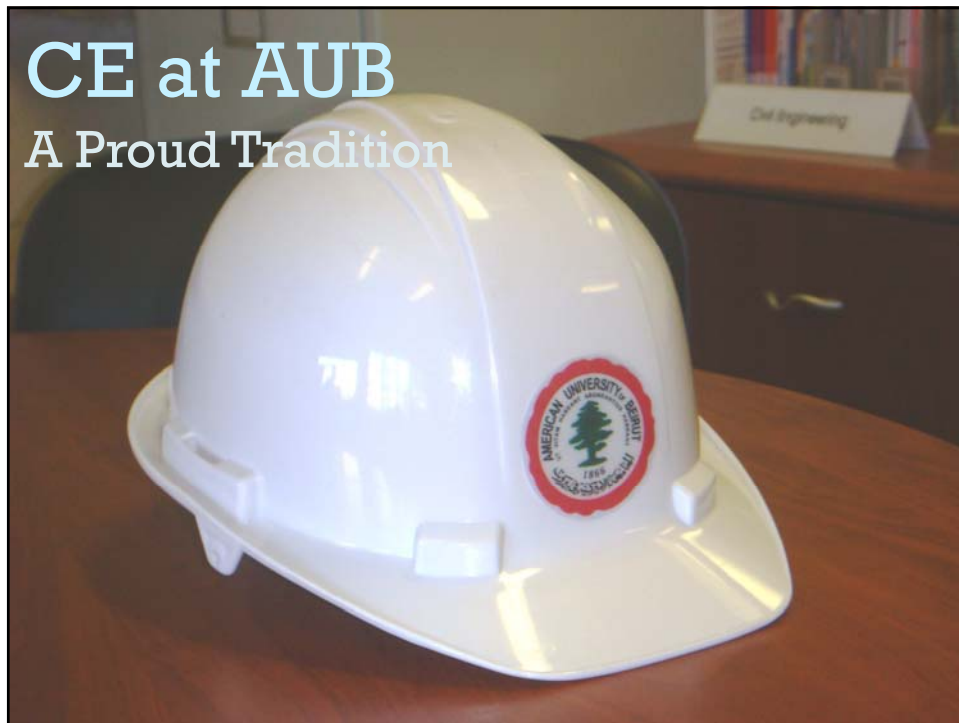
- We will spend some time exploring the profession starting next week....
- Some of CEs DO...











The CEE Dept. ----- MISSION

- ✓ To provide a stimulating and supportive environment for high standard education;
- ✓ To prepare graduates for a lifelong productive career in addressing problems in a rapidly-changing world, while instilling in them an appreciation of leadership qualities, professionalism, and ethics;
- ✓ To provide professional services of the highest quality to the community;
- ✓ To contribute to expanding the knowledge and technological base in civil and environmental engineering.

The CEE Dept. ----- TRACKS

- ⊕ STRUCTURES
- ⊕ GEOTECHNICAL
- ⊕ MATERIALS AND PAVEMENTS
- ⊕ TRANSPORTATION
- ⊕ CONSTRUCTION AND MANAGEMENT
- ⊕ WATER RESOURCES
- ⊕ ENVIRONMENTAL

CEE ----- New Frontiers

- ⊕ DEVELOPMENT
- ⊕ BIO-ENGINEERING
- ⊕ LIFE-CYCLE ENGINEERING
- ⊕ REAL-TIME MONITORING
- ⊕ REHABILITATION OF STRUCTURES/INFRASTRUCTURE
- ⊕ SMART SYSTEMS
- ⊕ SPACE STRUCTURES
- ⊕ ETC.

The CEE Dept. ----- PROFS

- ⊕ HOW DO FACULTY MEMBERS "SPEND THEIR TIME"?
- ⊕ HOW DO FACULTY MEMBERS GET HIRED?
- ⊕ ACADEMIC RANK

THE ROLE OF A FACULTY MEMBER

- ❖ Teaching / Academic Programs
- ❖ Research
- ❖ Service
- ❖ Professional development

FACULTY MEMBERS - RANK

❖ Full Time Faculty (all PhDs)

- ✓ Assistant Professor
- ✓ Associate Professor
- ✓ Professor

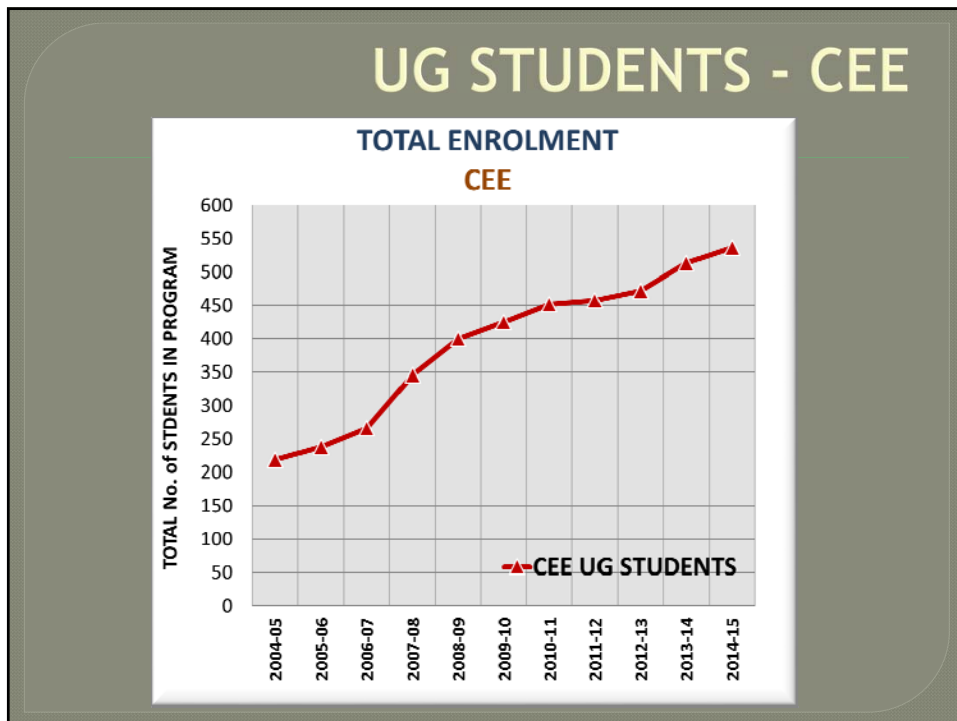
❖ Part Time Faculty

- ✓ Assistant Instructor (MS/ME)
- ✓ Instructor (MS/ME)
- ✓ Lecturer (PhD)
- ✓ Senior Lecturer (PhD)

FACULTY MEMBERS - CEE

❖ Total Currently - 19 (4 "Generations")

- ✓ Structures and Materials **7** (3 Profs, 1 Assoc., 2 Assist. Profs + 1 Visiting Assist. Prof. by Jan 2015)
- ✓ Environmental **5** (3 Profs, 2 Assist. Profs)
- ✓ Water Resources **2** (1 Prof, 1 Assist. Prof)
- ✓ Geotechnical **2** (1 Prof, 1 Assoc. Prof)
- ✓ Transportation **2** (1 Prof, 1 Assist. Prof)
- ✓ Construction and Manag. **2** (2 Assist. Prof)



Course Info.

- **Lectures:** Engineering Lecture Hall
 - Thurs. 2:00-3:30PM
 - **Labs:** Geotechnical Lab – Irani Oxy Engineering Complex (or 108 Bechtel-by announcement)
 - Section 1 Mon. 4:00-”7:00”PM
 - Section 2 Wed. 4:00-”7:00”PM
- **Communication via moodle** ←
- **Coordinator**
 - Dr. Salah Sadek
 - 326 Bechtel
 - salah@aub.edu.lb
 - by Appointment

Course Info.

- Graduate Assistants

Course Topics/Themes.

- Civil Engineering – Historical Perspective- Current Events; More....
- Civil Engineering sub-disciplines.
- Ethics in engineering.
- Guest lecturers.
- Site visits (If/When Possible).
- Laboratory experiments/Projects
 - Balsa bridge building , hydraulic competition
- Course Project/Movie.

Course Evaluation

- | | |
|--------------------------------|-----|
| • Attendance and Participation | 15% |
| • Projects (2) | 40% |
| • Movie | 15% |
| • Final Exam | 30% |

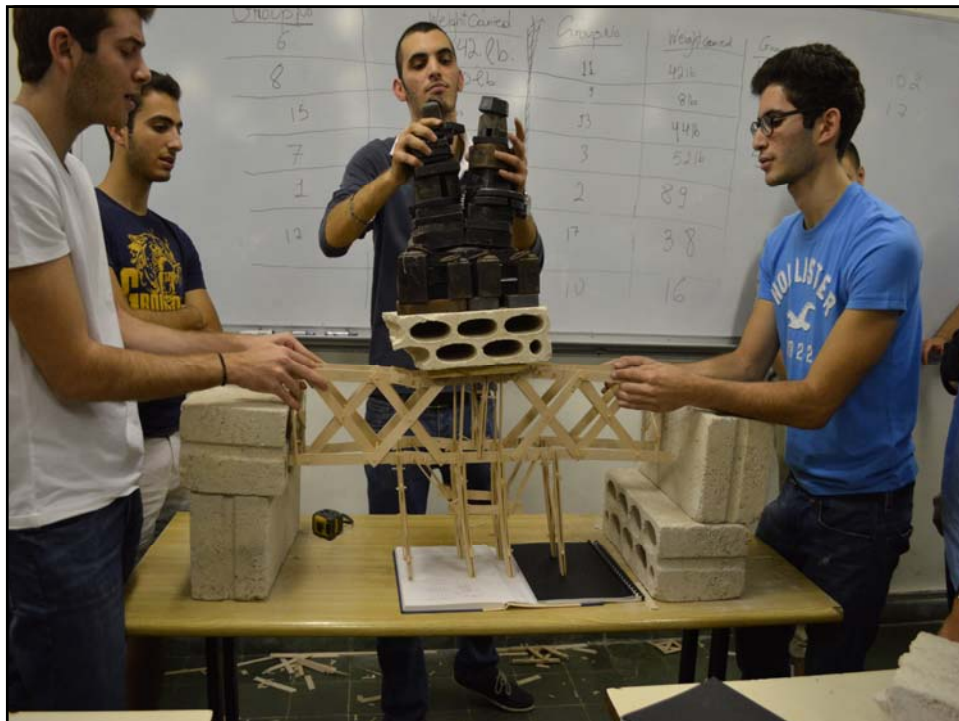
*The above is **Tentative**.*

Week	Holidays	LAB Activities (M/W)	Lecture (Th)	Deliverables
3 Sept.	-	-	CIVE 200 Course Logistics	
8-10 Sept.	-	-	Overview of CEE Dr. Sadek	
15-17 Sept.	-	-	Structures Dr. Mabsout	
22-24 Sept.	-	Bridge Simulation Game	Bridge Building Competition Dr. Sadek	
29 Sept. - 1 Oct.	-	Bridge Building Competition 1	Water Resources Dr. Abou Najm	
6-8 Oct.	-	Bridge Building Competition 2	Transportation Dr. Abou Zeid	
13-16 Oct.	-	Bridge Competition Final	Geotechnical Dr. Najjar	Bridge Test
20-22 Oct.	-	-	Movie Discussion Dr. Sadek	
27-29 Oct.	-	Hydraulic Competition 1	Environmental Dr. Fadel	
3-5 Nov.	M Nov. 3 (Off)	Hydraulic Competition 2	Materials Dr. Chehab	
10-12 Nov.	-	Hydraulic Competition Final	Construction Dr. Khoury	
17-19 Nov.	-	-	Ethics	
24-26 Nov.	-	-	Guest Speaker OR Instrumentation lecture OR Software (BIM, REVIT) OR Documentary Movie	
1-3 Dec.	-	-	Movie Presentation	Movie
8-10 Dec.	-	READING PERIOD AND FINALS		

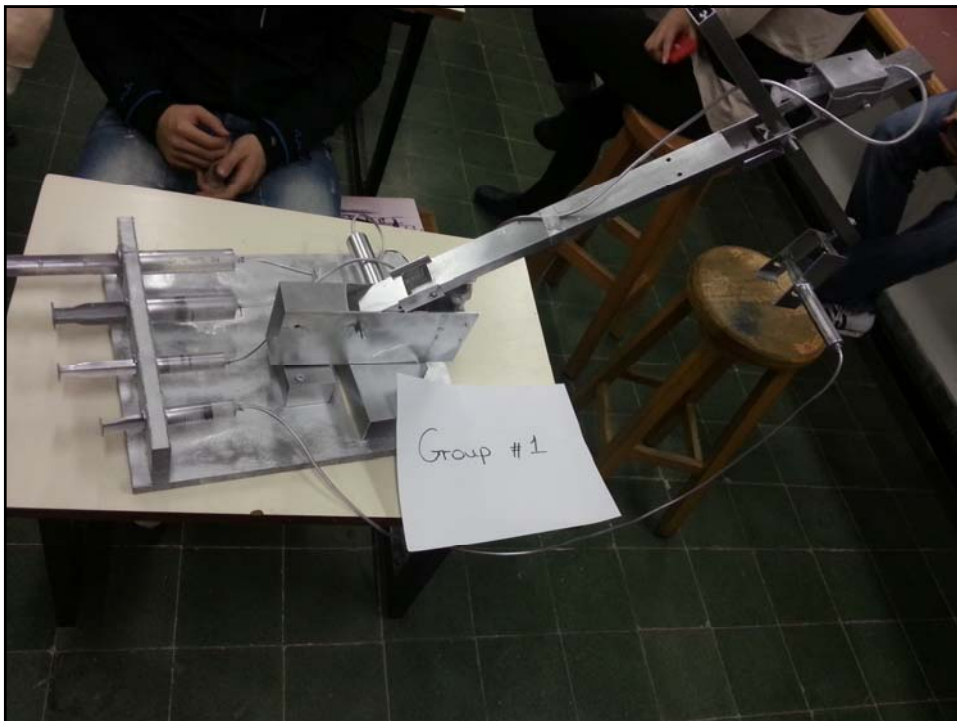
Course Outcomes

- Students can demonstrate a basic understanding of the Civil Engineering profession in its various disciplines
- Students can demonstrate the ability to understand, interpret and “solve” civil engineering experiments and problems.
- Students will be able to think creatively and to apply basic research skills.
- Students will appreciate the impact of engineering solutions in local and global context through lectures and projects.
- Students will develop their teamwork, organizational and presentation skills with a professional attitude









QUESTIONS?