



**COMMITTEE ON ACADEMIC PLANNING AND REVIEW
ANNUAL PROGRAM REPORT**

College	CSCI
Department	Engineering
Program Unit	Construction Management
Reporting for Academic Year	2013-2014
Department Chair	Saeid Motavalli
Date Submitted	6/28/2013

1. SELF-STUDY (about 1 page)

A. Five-year Review Planning Goals

The Engineering Department offers undergraduate and graduate degree programs in Construction Management. The Department is planning to apply for the accreditation of the undergraduate Construction Management degree program by the American Council for Construction Education (ACCE) during the 2015-16 academic year. The first cohort of students graduated in June 2013.

The Construction Management program started at the graduate level in Winter 2009, and the undergraduate degree program was initiated in Fall 2010. This is the first CAPR report for the Construction Management program.

The Engineering Department is also preparing a proposal for a Civil Engineering Degree program, supported by the Construction Management and Engineering faculty.

B. Five-year Review Planning Goals Progress

A second TT Faculty was hired in 2012-2013. The Department has initiated the process to hire a third TT Faculty for 2014-2015. All faculty hired for the Construction Management program hold a Bachelor in Civil Engineering in anticipation of starting a Civil engineering program.

C. Program Changes and Needs

A new concrete laboratory is under construction this summer. This laboratory is being implemented as part of the larger sustainable construction materials laboratory plan to serve the teaching and research needs of the Construction Management program, and the anticipated needs of the future Civil Engineering program.

A new course titled CMGT 2011 – Surveying and Blueprint Reading was added to our curriculum to improve the professional opportunities for our students and to satisfy a requirement established by our accrediting agency, the American Council for Construction Education. This agency has established that at least one surveying and GIS course is the minimum prerequisite that a program must have in order to become accredited. Several course numbers were updated as part of an improvement in the offering sequence for the undergraduate Construction Management curriculum.

We are recruiting for a third T.T. faculty in construction management to join the program in the Fall of 2014.

2. SUMMARY OF ASSESSMENT (about 1 page)

A. Program Student Learning Outcomes

A yearly schedule for assessment of program L.Os. has been generated. The program L.Os. have remained unchanged to match with the recommended (a-h) learning outcomes suggested by ACCE. These are as follows:

- a. Students will have knowledge in the core construction management areas (construction materials and methods, safety, codes, scheduling, commissioning, planning and control, project management, construction law, cost accounting, human resources management, environmental and safety issues in construction).
- b. Students will have knowledge in broad areas of construction management beyond the core areas.
- c. Students will have the ability to communicate effectively.
- d. Students will have the ability to function in teams.
- e. Students will have the knowledge of sustainable building and construction techniques and relevant state regulations.
- f. Students will have an awareness of the complex environment (involving professional and ethical responsibilities) in which they will practice their profession.
- g. Students will have the ability to educate themselves and be prepared for lifelong learning and professional development.
- h. Students will have experience in solving real life problems in construction. list all outcomes in the box below, and append a curriculum map showing alignment of the Program Student Learning Outcomes and CSUEB Institutional Learning Outcomes.

B. Program Student Learning Outcome(s) Assessed

Outcomes a, b, and c were assessed during the 2012-2013 academic year.

C. Summary of Assessment Process

Our assessment process is based on the requirements established by the American Council for Construction Education (ACCE). The program outcomes are grouped in four main categories: General Education, Mathematics and Science, Business and Management, Construction Science, and Construction.

Every course outcome is linked to a program outcome, and is assessed by a student survey at the end of the quarter. Additionally, course outcomes are mapped to quizzes, exams and project requirements, and assessed by each faculty using Department of Engineering course assessment forms. Also, a mapping of program outcomes to the University ILO's have been developed.

D. Summary of Assessment Results

The summary of survey results indicate that students generally "Agree" or "Strongly Agree" that they have achieved outcomes (a), (b), and (c). Objective assessment based on tests, quizzes and projects indicate the following results: for outcome (a), the average student score was 75%; for outcome (b), the average student score was 77%; for outcome (c), the average score was 80%. Based on an established threshold of 70%, we determined that on the average students did achieve the aforementioned outcomes. We will monitor these scores and relate them to the changes we are making to the courses.

3. STATISTICAL DATA (about 1 page)

Planning and Institutional Research produce program statistics annually in standard format. These statistics will be attached to the Annual Report of the Program Unit. This statistical document is expected to be approximately one page long and will contain the same data as required for the five-year review including student demographics of majors, student level of majors (e.g. Juniors, Seniors), faculty and academic allocation, and course data.

Construction Management		Fall 2009			Fall 2010			Fall 2011		
		Degree Level		TOTAL	Degree Level		TOTAL	Degree Level		TOTAL
		Bachelor	Master		Bachelor	Master		Bachelor	Master	
Female	Black, non-Hispanic		2	2		1	1		1	1
	Asian		1	1		1	1		2	2
	Hispanic		2	2		2	2	1	6	7
	White		1	1		5	5		5	5
	Multiple ethnicity									
	Race/ethnicity unknown								1	1
	Nonresident aliens		2	2		3	3		1	1
Male	Black, non-Hispanic					1	1		2	2
	Asian		1	1	1	5	6	1	5	6
	Hispanic		1	1	4	4	8	6	4	10
	White		6	6	1	15	16	6	20	26
	Multiple ethnicity					2	2	1	1	2
	Race/ethnicity unknown					2	2	1	4	5
	Nonresident aliens		3	3	1	5	6	1	5	6
Total	Black, non-Hispanic		2	2		2	2		3	3
	Asian		2	2	1	6	7	1	7	8
	Hispanic		3	3	4	6	10	7	10	17
	White		7	7	1	20	21	6	25	31
	Multiple ethnicity					2	2	1	1	2
	Race/ethnicity unknown					2	2	1	5	6
	Nonresident aliens		5	5	1	8	9	1	6	7

Course History Table 10.1b
California State University, East Bay
COURSE HISTORY
By Quarter from Summer 2007 through Spring 2012

College of Science		Summer					Fall					Winter					Spring				
		Sumr 2007	Sumr 2008	Sumr 2009	Sumr 2010	Sumr 2011	Fall 2007	Fall 2008	Fall 2009	Fall 2010	Fall 2011	Wntr 2008	Wntr 2009	Wntr 2010	Wntr 2011	Wntr 2012	Sprg 2008	Sprg 2009	Sprg 2010	Sprg 2011	Sprg 2012
CMGT	Number Sections	.	.	.	.	2.0	.	.	2.0	5.0	4.0	.	2.0	2.0	6.0	5.0	.	2.0	4.0	4.0	4.0
	Enrollment	.	.	.	.	23	.	.	54	96	120	.	18	76	96	87	.	21	71	79	111
	Avg Section Size	.	.	.	.	22.0	.	.	27.0	31.0	38.0	.	9.0	38.0	27.3	20.8	.	10.5	33.0	24.0	26.0

Construction Management		CY11-12YTD			Total
		Degree Level			
		Bccalaureate	Master	Ed Doctor	
Female	Black, non-Hispanic				
	American Indian or Alaska Native				
	Asian		1		1
	Pacific Islander				
	Hispanic		2		2
	White		2		2
	Multiple ethnicity				
	Race/ethnicity unknown				
	Nonresident aliens		2		2
Male	Black, non-Hispanic				
	American Indian or Alaska Native				
	Asian		2		2
	Pacific Islander				
	Hispanic		1		1
	White		5		5
	Multiple ethnicity				
	Race/ethnicity unknown				
	Nonresident aliens		2		2
Total	Black, non-Hispanic				
	American Indian or Alaska Native				
	Asian		3		3
	Pacific Islander				
	Hispanic		3		3
	White		7		7
	Multiple ethnicity				
	Race/ethnicity unknown				
	Nonresident aliens		4		4