

ROWAN COLLEGE
CURRICULUM COMMITTEE

(R)

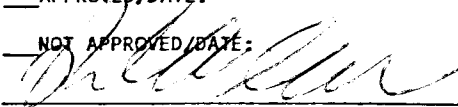



PROPOSAL TITLE: Advanced Reinforced Concrete for Seniors 0908, 485

UNDERGRADUATE GRADUATE 3 CREDIT HOURS

SPONSOR(S): Ralph Alan Dusseau

DEPARTMENT & TELEPHONE# Civil Engineering, 4628

CHECK ONE: COURSE MINOR PROGRAM CONCENTRATION SPECIALIZATION
 ACHIEVEMENT CERTIFICATE CERTIFICATION PROGRAM MAJOR PROGRAM

STEP #1 (DEPARTMENT)	STEP #2 (RECEIPT)	STEP #3 (SCHOOL)
<input checked="" type="checkbox"/> APPROVED/DATE: <u>9/20/96</u> <input type="checkbox"/> NOT APPROVED/DATE:  DEPT. CURRICULUM CHR. Ralph Alan Dusseau <input checked="" type="checkbox"/> REVIEWED/DATE: <u>9/20/96</u>  ph Alan Dusseau DEPT. CHR.	SCC# <u>96-97-35</u> DATE RECEIVED:  SENATE/CURRICULUM CHR.	REVIEWED DATE:- <u>9/23/96</u> <input checked="" type="checkbox"/> RECOMMEND TO APPROVE <input type="checkbox"/> RECOMMEND NOT TO APPROVE FORWARD FOR OPEN HEARING <input checked="" type="checkbox"/> WITHOUT RESERVATIONS <input type="checkbox"/> WITH RESERVATIONS COMMENTS:  SCHOOL COMMITTEE CHR.

STEP #4 (ACADEMIC DEAN) COMMENTS:

RECOMMEND
 NOT RECOMMEND
 CONDITIONALLY RECOMMEND (SEE COMMENTS)

DATE & SIGNATURE, DEAN OF SCHOOL: J. M. Saeg 9/23/96

STEP #5 (SENATE CURRICULUM COMMITTEE)

DATE OF OPEN HEARING _____

APPROVED BY SENATE CURRICULUM COMMITTEE (DATE) 1/24/97

RETURNED TO SPONSOR(S) FOR THE FOLLOWING REASONS:

STEP #6 (SENATE)

DATE PRESENTED TO SENATE _____ APPROVED NOT APPROVED

NOTIFICATION TO EXECUTIVE VICE PRESIDENT/PROVOST (DATE) _____

SENATE CURRICULUM COMMITTEE CHAIR SIGNATURE/DATE: Ronald J. Gorman 2/7/97

STEP #7 (EXECUTIVE VICE PRESIDENT/PROVOST)

DATE RECEIVED _____

APPROVED: YES NO

IF NO, REASONS ARE AS FOLLOWS:

STUDENT CREDIT HOURS 3

FACULTY LOAD HOURS 3

EQUALIZED CREDIT HOURS _____

OFFICIAL COPY & APPROVAL SHEET FILED (DATE) _____

SIGNATURE, EXECUTIVE VICE PRESIDENT/PROVOST [Signature]

REGISTRAR

DATE APPROVED COURSE DESCRIPTION RECEIVED 14 Mar, 97

HEGIS TAXONOMY AND COURSE NUMBER ASSIGNED 0908-485

DATE/SIGNATURE OF REGISTRAR [Signature]

NOTIFICATION FORWARD:

___ SENATE CURRICULUM COMMITTEE CHAIRPERSON

___ DEPARTMENT CHAIRPERSON(S)

___ ACADEMIC DEAN(S)

___ REGISTRAR

___ SPONSOR(S)

Course Proposal:

1. Details:

- a) **Course Title:** Advanced Reinforced Concrete for Seniors
- b) **Sponsor:** Dr. Ralph Alan Dusseau and School of Engineering Curriculum Committee
- c) **Credit Hours:** 3 credit hours
- d) **Course Level:** Seniors (0908.485)
- e) **Curricular Effect:** Elective course for civil engineering students
- f) **Prerequisites:** Structural Engineering I or permission of instructor
- g) **Suggested Time/Scale of Implementation:** one section during fall semesters
- h) **Resources** Existing faculty in the School of Engineering can teach this course. Library acquisitions will be required.

2. Rationale:

The proposed course is an additional civil engineering elective that would supplement the Engineering Curriculum that was approved by the College Senate in December 1994. The proposed course is consistent with the establishment of the School of Engineering approved by the Board of Trustees in February 1995.

The fundamental theme of the course is the design of advanced reinforced concrete structures and structural components including two-way slabs, footings, retaining walls, shear walls, and slender columns.

3. Essence of the Course:

a) Objectives:

Upon completion of the course, civil engineering students will be able to design advanced reinforced concrete structures and structural components including the following:

1. Two-way slabs
2. Footings
3. Retaining walls
4. Shear walls
5. Slender columns.

b) Topical Outline:

The topical outline of the course may vary to some extent depending on the interests of the instructor and the students, and on advances in engineering technology. The topics to be covered will include the following:

Two-Way Slabs:

Slabs with Beams

Flat Slabs

Flat Plates

Footings:

Wall

Single Column

Multiple Column

Retaining Walls:

Gravity

Semi-Gravity

Cantilever

Shear Walls

Slender Columns

c) Evaluation and Grading Procedure of Students:

Student grades will be determined based on midterm and final examinations and homework assignments.

d) Course Evaluation:

The proposed course will be evaluated based on student evaluations and curriculum review by engineering faculty.

4. Results of Consultations:

The proposed course is an additional elective that would supplement the Engineering Curriculum approved by the College Senate in December 1994. Consultations were submitted with the original proposal as specified by the Curriculum Committee.

Catalog Description:

Advanced Reinforced Concrete for Seniors (0908.485)

(Prerequisites: Structural Engineering I or permission of instructor)

The fundamental theme of the course is the design of advanced reinforced concrete structures and structural components including two-way slabs, footings, retaining walls, shear walls, and slender columns.