

Memo

APPROVED APR 21 2010

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To: Chair, University Undergraduate Council**From:** Neil Eldin, Director of Construction Management Program**CC:** Fred Lewallen, Associate Dean for Academic Affairs**Date:** 3/12/2010**Re:** Amendment to the approved modifications to the Construction Management Degree Plan (UC 10482-09F) - effective date of fall-2010

The modifications approved in fall-09 were based on a preliminary accreditation visit that took place in October 2009. Upon the completion of the formal visit (March 3, 2010), the accreditation team requested the addition of a Speech Course to the degree plan in order to meet accreditation standards. As a result, the CM-faculty is requesting the addition of COMM 1332 to the approved degree plan. In addition, in order to maintain the current credit-hours (120 hours) the CM-faculty request that TMTH 3360 be eliminated from the requirements of the degree plan. However, to ensure meeting the prerequisites for the required Math Courses, students will be required to have credit for College Algebra through the Math Placement Exam, CLEP, or completion of the course.

Construction Management Major

This program includes topics directed towards managing construction projects, interpreting codes and specifications, administering contracts, estimating costs, and scheduling project activities.

The objective of the Construction Management program is to provide graduates with knowledge and skills that are valued and sought by the construction industry profession. Commercial, residential, industrial, and highway/heavy sectors of the construction industry need entry-level professional employees who are knowledgeable and skilled. Graduates must have knowledge of construction materials and methods, structural systems, soils, site development, surveying, and contract administration; be capable of interpreting codes, plans, and specifications; and have skills for planning, estimating, scheduling, and evaluating project performance. The program's curriculum provides fundamental and advanced coursework that incorporate current standards and technology for managing and providing quality construction. Software is applied in curriculum courses to prepare students for careers that require knowledge of computer estimating and scheduling.

Construction Management graduates should have knowledge and problem-solving skills to:

1. Determine costs for construction activities and projects, establish construction schedules, and apply time value of money concepts for evaluation of alternatives;
2. Evaluate project schedule and cost performance;
3. Interpret construction material properties and standards;

4. Produce and interpret drawings; interpret codes for concrete, steel, and timber construction;
5. Apply design concepts for site development (soils and foundations, water distribution, waste-water collection, and storm-water drainage); and
6. Perform managerial functions.

The program is committed to attaining the following goals:

- Provide a career-oriented program that prepares students for productive and professional employment in the construction industry.
- Emphasize inclusion of recent technological advancements into the technology/construction management curriculum in the areas of management, scheduling, estimating, cost-control, and other construction courses.
- Provide a learning environment where students apply state-of-the-art technological equipment and software.
- Prepare graduates to pursue graduate degrees and life-long education. Provide students with an opportunity to prepare for entry into the Master of Technology in Construction Management Technology program.

At the Master of Technology level, students will receive advanced education, preparing them to be construction management leaders in industry or faculty members in colleges and universities. For more information on the graduate program, please refer to the **Graduate and Professional Studies catalog**.

Majors in Construction Management may use no grade below C- in junior and senior level courses to satisfy major degree requirements.

Students pursuing a major in Construction Management must complete the following requirements in addition to the university core and general college requirements.

Construction Management Major Requirements (GPA for major will be calculated with following major requirements including the Commercial Construction or the Process and Industrial Track .)

~~ACCT 2331. Accounting Principles I - Financial~~
~~ACCT 2332. Accounting Principles II - Managerial~~
~~CNST-1301. Construction Materials and Methods~~
~~CNST 1361. Construction Management I~~
~~CNST-2321. Mechanical and Electrical Systems~~
~~CNST 2341. Construction Documents~~
~~CNST 2351. Construction Estimating I~~
~~CNST 3185. Construction Experience~~
~~CNST 3205. Construction Safety Management~~
~~CNST 3301. Construction Equipment and Methods~~
~~CNST-3311. Structural Steel and Timber Construction~~
~~CNST-3312. Project Finance and Economics~~
~~CNST 3331. Construction Planning and Scheduling~~
~~CNST-3351. Construction Estimating II~~
~~CNST 3355. Construction Materials and Testing~~
~~CNST 3155. Construction Materials and Testing Lab~~
~~CNST 4265. Site Development and Environmental Issues~~
~~CNST-4290. Current Issues in Construction~~
~~CNST 4302. Construction Law and Ethics~~
~~CNST-4331. Construction Management II~~
~~CNST-4341. Project Controls~~
~~CNST 4372. Soil Mechanics and Foundations~~
~~CNST-4381. Reinforced Concrete and Building Codes~~
~~MECT-2354. Introductions to Mechanics~~
~~SURY-2361. Surveying I~~

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Commercial Construction Track

CNST 1301. Construction Materials and Methods

CNST 1330. Graphics I

CNST 2321. Mechanical and Electrical Systems

CNST 2341. Construction Documents

CNST 3311. Structural Steel and Timber Construction

CNST 3351. Construction Estimating II

CNST 4331. Construction Management II

CNST 4341. Project Controls

CNST 4381. Reinforced Concrete and Building Codes

Process and Industrial Track

CNST 1315. Project Drawings and Graphics

CNST 1325. Process and Industrial Construction

CNST 2325. Process and Industrial Subsystems

CNST 2345. Contract Documents for Capital Projects

CNST 3315. Steel Construction

CNST 3365. Cost Estimating for Capital Projects

CNST 4335. Leadership of Construction Projects

CNST 4345. Reinforced Concrete Structures

CNST 4385. Field Operations for Capital Projects

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Program Requirements

Math/Reasoning

(13-10 SH which includes university core) Students are required to have credit for College Algebra through Math Placement Exam (MPE), CLEP, or completion of course.

MATH 1313. Finite Mathematics with Applications

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MATH 1330. Precalculus

Field Code Changed

MATH 1431. Calculus I

Field Code Changed

MATH 3360. Applied Technical Statistics not yet approved, submitted as amendment to document UC 10482 09F

Natural Sciences

(6-8 SH which includes university core)

PHYS 1301/1101. Introductory General Physics I and laboratory

Field Code Changed

PHYS 1302/1102. Introductory General Physics II and laboratory

Field Code Changed

or

GEOL 1330/1130. Physical Geology and laboratory

Field Code Changed

General Technology and College Core

(6 SH)

CNST 1330: Graphics I

TELS 3363: Technical Communication

Social/Behavioral Sciences

(3 SH which includes university core)

ECON 2304: Microeconomics

Field Code Changed

or

ECON 2305: Macroeconomics

Field Code Changed

Writing in the Discipline

(3 SH which includes university core)

GENB 4350: Business Law and Ethics

Field Code Changed

General Technology and College Core

(6 SH)

COMM 1332: Fundamentals of Public Speaking

TELS 3363: Technical Communication

Approved Business Electives:

(Choose 6 SH)

MANA 3335: Introduction to Organizational Behavior and Management

MARK 3336: Elements of Marketing Administration

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FINA 3332: Principles of Financial Management

SCM 3301: Service and Manufacturing Operations

Degree awarded: Bachelor of Science

Major: Construction Management