5. Change in Curriculum

**College of Architecture**

Department of Construction Science  
B.S. in Construction Science

New Course

**COSC 364. Construction Safety I. (1-0). Credit 1.** Administration and application of the OSHA Act in the construction industry; includes standards, the general duty clause, competent person, and hazard identification; fulfills the requirements for the ten-hour OSHA certifications. Prerequisite: Admission to upper level in College of Architecture.

Change in Courses

**COSC 321. Structural Systems I.**

Lecture, lab, credit hours  
From: (3-2) Credit 4.  
To: (2-3) Credit 3.

**COSC 323. Soils in Construction.**

Lecture, lab, credit hours  
From: (2-3) Credit 3.  
To: (1-3) Credit 2.

**COSC 440. Interdisciplinary Capstone.**

Lab, credit hours  
From: (2-4) Credit 4.  
To: (2-3) Credit 3.

**COSC 441. Residential Construction.**

Course title  
From: Residential Construction.  
To: Residential Capstone.

Lecture, lab hours  
From: (3-0) Credit 3.  
To: (2-3) Credit 3.
COSC 442. Commercial Construction.

Course title
   From: Commercial Construction.
   To: Commercial Capstone.

Lecture, lab hours
   From: (3-0) Credit 3.
   To: (2-3) Credit 3.

COSC 443. Industrial Construction.

Course title
   From: Industrial Construction.
   To: Industrial Capstone.

Lecture, lab hours
   From: (3-0) Credit 3.
   To: (2-3) Credit 3.

COSC 444. Highway/Heavy Construction.

Course title
   From: Highway/Heavy Construction.
   To: Highway/Heavy Capstone.

Lecture, lab hours
   From: (3-0) Credit 3.
   To: (2-3) Credit 3.

COSC 446. Specialty Construction.

Course title
   From: Specialty Construction.
   To: Specialty Capstone.

Lecture, lab hours
   From: (3-0) Credit 3.
   To: (2-3) Credit 3.


Course title
   From: Construction Safety.
   To: Construction Safety II.
Date: December 19, 2006

TO: Linda F. Lacey  
    Director of Academic Support Services

From: Leslie Feigenbaum  
      Assistant Dean, Undergraduate Studies  
      College of Architecture

CC: Charles Graham, PhD.  
    Interim Head, Construction Science  

Professor Thomas Regan  
Dean, College of Architecture

RE: Changes to the Construction Science Degree Program

Attached are changes to the Construction Science undergraduate curriculum to bring it down to 120 credit hours. There is one new course request COSC 364 Construction Safety and Course Change requests for COSC 321, COSC 323, COSC 464, COSC 440, COSC 442, COSC 443 and COSC 446.

I would appreciate including this course on the January Agenda for the University Curriculum Committee.

Thanks in advance for your help!
Summary of Changes

<table>
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<td><strong>New Courses</strong></td>
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<td><strong>Course Changes</strong></td>
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<td><em>COSC 321 Structural Systems I reduced from 4 SCH to 3 SCH</em></td>
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<td><em>COSC 323 Soils in Construction reduced from 3 SCH to 2 SCH</em></td>
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<td><strong>Curriculum Required Courses Changed</strong></td>
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<td>CVEN 201 replaced with COSC 301</td>
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<td>ICD Elective replaced with U.S. History and ICD</td>
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<td>COSC 153 added in a required course</td>
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MEMORANDUM

TO: Leslie Feigenbaum, Assistant Dean for Undergraduate Studies

FROM: Dr. Charles Graham, Interim Department Head Construction Science Department

DATE: November 28, 2006

RE: Documentation for Construction Science Undergraduate Curriculum Change.

Attached are the Construction Science Undergraduate Curriculum changes for approval.
INTERNAL MEMORANDUM

TO: Dr. Charles W. Graham, Interim Department Head
FROM: Task Force on Curriculum Review
       Dr. Yilmaz H. Karasulu (Chair), Dr. Ifte Choudhury, Mr. Skip Coody, Ms. Debra Ellis, Mr. Jose F. Solis
DATE: October 26, 2006
RE: Documentation for Construction Science Undergraduate Curriculum Change

This memorandum is prepared to document the background and changes to the Construction Science undergraduate curriculum previously agreed to by the faculty at the August 22, 2006 meeting.

PURPOSE OF CURRICULUM CHANGE

The changes in the undergraduate curriculum proposed herein serve four primary purposes. These are to:

1. Comply with the new state law (§ 61.0515) stating that universities can’t have bachelor’s degree programs longer than 120 hours hours.
2. Comply with the American Council for Construction Education (ACCE) requirements noted in its accreditation action, dated February 25, 2006.
3. Enable students to complete the degree requirements in the shortest possible time while maintaining quality and proper flow of information.
4. Address the important areas of emphasis noted through the review meetings conducted with the construction industry representatives.

BACKGROUND INFORMATION

1. The current Construction Science degree program requires 132 credit hours. Average time for Construction Science majors to complete the required degree program is 4.92 years. The current degree program requirements and flow chart are presented in Attachment 1.
2. The proposed Construction Science degree program requires 120 credit hours as shown in Attachment 2.
3. A side-by-side comparison of the two degree programs is included in Attachment 3.
4. ACCE accreditation action requires addition of a management course to the degree program.

PROPOSED DEGREE PROGRAM

1. Courses dropped from the current degree program (See Attachments 1 and 3):
   a. International and Cultural Diversity Elective - 3 Credits.
   b. Business Elective - 3 Credits.
   c. Leadership Elective - 3 Credits.
   d. CVEN 201 - Plane Surveying - 3 Credits.
   e. COSC 326 - Environmental Controls II - 3 Credits.
   f. COSC 422 - Structural Systems III - 3 Credits.
   g. COSC 464 - Construction Safety - 3 Credits.

2. Existing courses added to the degree program (See Attachments 2 and 3):
   a. COSC 153 - Introduction to Construction Industry - 3 Credits.
   b. MGMT 309 - Survey of Management - 3 Credits.

3. Existing courses modified in the proposed degree program (See Attachments 1 and 3):
   a. US History Elective - 3 Credits.
      - Modified to "US History / International Cultural Diversity Elective".
   b. Technical Elective - 3 Credits.
      - Modified to "Technical Elective I" to select from COSC 326 and COSC 422.
4. New courses added to the catalog and proposed degree program:
   a. **COSC 301** - Construction Surveying - 2 Credits.
      - See Attachment 4 for the new course request and proposed syllabus.
   b. **COSC 364** - Construction Safety I - 1 Credit.
      - See Attachment 5 for the new course request and proposed syllabus.
   c. **Technical Elective II** - 3 Credits.
      - Choose from COSC 484, 464, (466 and 467), 491, approved study abroad or approved business minor. See Attachments 1 and 3.

5. Courses changed in the degree program:
   a. **COSC 321** - Structural Systems I
      - Reduced from 4 credit hours to 3 credit hours.
      - See Attachment 6 for course change request and proposed syllabus.
   b. **COSC 323** - Soils in Construction
      - Reduced from 3 credit hours to 2 credit hours.
      - See Attachment 7 for course change request and proposed syllabus.
   c. **COSC 464** - Construction Safety II
      - Course Name Changed from "Construction Safety" to "Construction Safety II". See Attachment 8 for course change request.
   d. **COSC 475** - Construction Project Planning
      - COSC 494 - Internship is added as prerequisite.
      - COSC 477 - Construction Project Controls is added as co-requisite.
   e. **COSC 477** - Construction Project Planning
      - COSC 475 - Construction Project Planning is changed as co-requisite.
   f. **COSC 494** - Internship
      - COSC 301 - Construction Surveying and COSC 364 - Construction Safety I are added as prerequisites.
   g. **COSC Capstone Elective**
      - Reduced from 4 credit hours to 3 credit hours to choose from COSC 440, 441, 442, 443, 444, or 446.
      - COSC 477 - Construction Project Planning is added as prerequisite.

6. Existing program courses unchanged:
   a. **COSC 253** - Construction Materials and Methods I.
   b. **COSC 254** - Construction Materials and Methods II.
   c. **COSC 291** - Research.
   d. **COSC 325** - Environmental Control Systems I.
   e. **COSC 326** - Environmental Control Systems II.
   f. **COSC 351** - Construction Equipment and Methods.
   g. **COSC 353** - Construction Project Management.
   h. **COSC 375** - Estimating II.
   i. **COSC 381** - Construction Industry Professional Studies.
   j. **COSC 421** - Structural Systems II.
   k. **COSC 422** - Structural Systems III.
   l. **COSC 463** - Construction Law and Ethics.
   m. **COSC 465** - Advanced Topics in Construction Law.
   n. **COSC 466** - Construction Business Development I.
   o. **COSC 467** - Construction Business Development II.
   p. **COSC 481** - Seminar.
   q. **COSC 483** - Construction Industry Contemporary Issues.
   r. **COSC 484** - Summer Internship.
   s. **COSC 491** - Research.
COMPLIANCE

1. Compliance with ACCE accreditation action requirement. MGMT 309 - Survey of Management - 3 Credits added to the graduation plan. See Attachment 3.

2. Compliance with the new state law (§ 61.0515) stating that universities can't have bachelor's degree programs longer than 120 hours.

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<td>MGMT 309 - Survey of Management Practices</td>
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3. Compliance with University Core Curriculum requirements.

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<td>Communication (6 hours)</td>
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<td>Mathematics (6 Hours)</td>
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<td>Natural Sciences (8 Hours)</td>
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<td>Social and Behavioral Sciences (3 Hours)</td>
<td>ENDS 115 - Design Communication Foundations - 3 Hours</td>
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<td>US History (6 Hours)</td>
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<td>Political Science (6 Hours)</td>
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<td>International and Cultural Diversity (6 Hours)</td>
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<td>(Cross Referenced with Humanities and US History)</td>
<td>POLS 206 - American National Government - 3 Hours</td>
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<td>Kinesiology (2 Hours)</td>
<td>POLS 207 - State &amp; Local Government - 3 Hours</td>
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<td>KINE 198 - Health &amp; Fitness Activity - 1 Hour</td>
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<td>KINE 199 - Required Physical Activity - 1 Hour</td>
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RECOMMENDATION

The Task Force recommends that this documentation for the Construction Science undergraduate program change be presented to the faculty and forwarded to the College of Architecture for implementation.
ATTACHMENT 1

Current Degree Plan and Curriculum Flow Chart - 132 Hours
# Catalog 129 (06-07)

## DEPARTMENT OF CONSTRUCTION SCIENCE

**Texas A&M University**

### FRESHMAN YEAR

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<td>COSC 483</td>
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### NOTES:

1. To be selected from the University Core Curriculum
2. Select from the following
   - AGED 340, AGED 341, AGED 342 or MGMT 309
3. Select From the following
   - FINC 309, INFO 209, MGMT 209 or MKTG 309
4. Selected from one of the following emphasis areas:
   - COSC 440 - Interdisciplinary Capstone
   - COSC 441 - Residential Construction
   - COSC 442 - Commercial Construction
   - COSC 443 - Industrial Construction
   - COSC 444 - Highway / Heavy Construction
   - COSC 446 - Specialty Construction
5. Selected from the following:
   - ARCH 446, COSC 484, COSC 486 / 467 or any 300 or 400 level course taken while on an approved study abroad
ATTACHMENT 2

Proposed Degree Plan and Curriculum Flow Chart - 120 Hours
# Catalog 130 (07-08)

## FRESHMAN YEAR

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<td>COSC 325</td>
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## NOTES:

1. To be selected from the University Core Curriculum

2. Selected from one of the following emphasis areas:
   - COSC 440 - Interdisciplinary Capstone
   - COSC 441 - Residential Construction
   - COSC 442 - Commercial Construction
   - COSC 443 - Industrial Construction
   - COSC 444 - Highway / Heavy Construction
   - COSC 445 - Specialty Construction

3. Selected from the following:
   - COSC 326 - Environmental Controls II
   - COSC 422 - Structural Systems III

4. Selected from the following:
   - COSC 464, 464, [466 and 487], 491, approved study abroad or approved business minor.
ATTACHMENT 3

Comparison between Current and Proposed Degree Plans
## Comparison between Catalog 129 & Proposed Catalog 130
### Curriculum reduced from 132 to 120 hours

### FRESHMAN YEAR

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ATTACHMENT 4

New Course Request for COSC 301 - Construction Surveying

ALREADY APPROVED
ATTACHMENT 5

New Course Request for COSC 364 - Construction Safety I
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional

Submit original form and 2 copies. Attach a course syllabus to each.

1. This request is submitted by the Department of ________________.
   CONSTRUCTION SCIENCE

2. Course prefix, number and complete title: COSC 364 - CONSTRUCTION SAFETY I

3. Course description (not more than 50 words):
   COSC 364, Construction Safety I. (1-0). Credit 3. Administration and application of the OSHA Act in the construction industry;
   Includes: standards, the general duty clause, competent person, and hazard identification; fulfills the requirements for
   the ten-hour OSHA certifications. Prerequisite: Admission to upper-level in College of Architecture.

4. Prerequisite(s): Admission to upper-level in College of Architecture
   Cross-listed with ______________________
   Cross-listed courses require the signatures of both department heads.

5. Is this a variable credit course? ☐ Yes ☐ No
   If yes, from ________ to ________.

6. Is this a repeatable course? ☐ Yes ☐ No
   If yes, this course may be taken ________ times. Will the course be
   repeated within the same semester/term? ☐ Yes ☐ No

7. Has this course been taught as a 489/689? ☐ Yes ☐ No
   If yes, how many times? ____________
   Indicate the
   number of students enrolled for each academic period it was taught.

8. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
      B.S. in Construction Science
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

9. If other departments are teaching or are responsible for related subject matter, the course must be coordinated
   with these departments. Attach approval letters.

10. Prefix | Course # | Title (exclude punctuation)
     COSC 364 | CONSTRUCTION SAFETY I

     Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code
     0 | 1 | 0 | 0 | 1 | 1 | 5 | 0 | 1 | 0 | 1 | 0 | 0 | 3 | 6 | 3 | 2

Approval recommended by:

[Signature]

Head of Department Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Dean of College Date

Director of Academic Support Services Date

Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
OAR/AS-5/04

19 of 65 W
COSC 364 - Construction Safety I

INSTRUCTOR: Dr. Yilmaz H. Karasu
OFFICE: 330 Longford A
PHONE: 845 7218
EMAIL: vkarasu@tamu.edu
WEB PAGE: http://vkarasu.tamu.edu
OFFICE HRS: 9:30 am - 12:30 pm Wednesdays or by appointment

PREREQUISITE: Admission to upper-level in College of Architecture.

CATALOG COURSE DESCRIPTION: 364. Construction Safety I. (3-0). Credit 3. Administration and application of the Occupational Safety and Health Administration Act in the construction industry; includes: OSHA standards, the general duty clause, competent person, and hazard identification, fulfills the requirements for the ten-hour OSHA certification. A student completing COSC 364 will be able to:
1. Demonstrate an understanding of OSHA Standards and their application for recognition of hazardous conditions and their elimination.
2. Develop an appreciation for the importance of maintaining safe construction practices and the procedures to insure a strong safety program.
3. Develop an understanding of safety management methods and procedures.

COURSE POLICIES:
1. No late homework or make-up exams (excuses for such are defined by the university regulations).
2. Students are encouraged to attend their classes. If absence is necessary, instructors are to be notified before the fact, if possible.
3. Each and every student is entitled to as much consultation time as may be required. To preserve the privilege of obtaining individual assistance, each student is expected to attend class regularly.
4. In-class participation and questions are encouraged. They may positively influence grading decisions in borderline cases.
5. All cell phones must be off, not vibrate, but off while in class. All cell phones will be inside back packs or otherwise stored away from the student during all examinations.
6. All students are required to have a university network account to access the computers in the lab.

COURSE MATERIAL & RESOURCES:
- Required Course Materials, information, and Handouts will be provided by the instructor in hardcopy or digital format through WebCT.

Textbook:

Additional Resources:

ADA POLICY STATEMENT: The following ADA Policy Statement (part of the Policy on Individual Disabling Conditions) was submitted to the University Curriculum Committee by the Department of Student Life. The policy statement was
forwarded to the Faculty Senate for information. The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

**ACADEMIC INTEGRITY STATEMENT:**

**AGGIE HONOR CODE:** "An Aggie does not lie, cheat, or steal or tolerate those who do."

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. For additional information please visit: [www.tamu.edu/aggihonor/](http://www.tamu.edu/aggihonor/)

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<td>Quiz</td>
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**GRADE SCALE**

- A \( \geq 90 \)
- B \( 80 - 89.9999 \)
- C \( 70 - 79.9999 \)
- D \( 60 - 69.9999 \)
- F \( \leq 59.9999 \)

---

**COURSE OUTLINE**

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<td>SIC Code Identification, TRIR Calculations, OSHA Overview and Introduction to Safety Code</td>
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<td>Recordkeeping, Multi Employer Policy and Focused Inspections</td>
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<td>Worksite Analysis, Accident Investigation and Site Management</td>
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This Schedule is subject to change with appropriate notification.
ATTACHMENT 6

Course Change Request for COSC 321 - Structural Systems I
Change from 4 SCH (3-2) to 3 SCH (2-3)
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
- Submit original form and 2 copies -

1. This request is submitted by the Department of CONSTRUCTION SCIENCE

2. Course prefix, number and complete title of course: COSC 321 - STRUCTURAL SYSTEMS I

3. Change requested:
   a) Prerequisite(s): From ___________________________ To ___________________________
   b) Withdrawal (reason) ___________________________
   c) Cross-list with ___________________________

   Cross-listed courses require the signatures of both department heads.

   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.

   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description: ___________________________


5. Complete proposed course title and proposed course description (not to exceed 50 words): ___________________________


6. a) As currently in course inventory:

   Prefix | Course # | Title (exclude punctuation) |
   -------|---------|-----------------------------|
   COSC   | 321     | STRUCTURAL SYSTEMS I |

   Lect.  | Lab     | SCH | Subject Matter Content Code | Admin. Unit | FICE Code |
   -------|---------|-----|-----------------------------|-------------|-----------|
   00     | 20      | 04  | 00 00 00 00 00 00 00 00 00 00 00 | 00          | 00 36 32  |

   Do not complete shaded area.

   b) Changed to:

   Prefix | Course # | Title (exclude punctuation) |
   -------|---------|-----------------------------|
   COSC   | 321     | STRUCTURAL SYSTEMS I |

   Lect.  | Lab     | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code |
   -------|---------|-----|-----------------------------|-------------|------------|-----------|
   02     | 03      | 04  | 00 00 00 00 00 00 00 00 00 00 00 | 00          | 07 17 01  | 00 36 32  |

   Approved recommended by: ___________________________

   Head of Department Date 11/12/06
   Chair, College Review Committee Date 11/12/06
   Dean of College Date 11/12/06

   Submitted to Coordinating Board by: ___________________________

   Dean of College Date ___________________________

   Director of Academic Support Services Date ___________________________

   Effective Date ___________________________

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737 23 of 65 W
OAR/AS- 504
COSC 321. Structural Systems I

1. Course Information

Instructor: Prof. John M. Nichols
Teaching Assistant: Miss Desphande.
Office Hours: 8 am to 9 am MW and 9 am to 10 am TR (and by appointment).
Office: C305C Langford
Telephone: (979) 845-6541
Email Address: jm-nichols@tamu.edu
Web Site: http://www.tamu.edu/classes/cosc/nichols/ Aspects of the syllabus are presented on the web site along with notes and examples.

Prerequisites: Admission to upper level in College of Architecture.
Description: 321. Structural Systems I. (2-3). Credit 3. Introduction to the physical principles that govern classical statics and strengths of materials through the design of timber and steel components of architectural structures, with computer applications.

2. Objectives:

To understand the significance, assumptions, applications, and limitations of the basic principles of statics and Strength of Materials as they apply to the design and analysis of structural members and simple connections. Specifically to:

- Learn the principles of statics and mechanics of materials as they apply to structural systems.
- Introduction to the physical principles that govern classical statics and strength of materials through the design of timber and steel components of architectural structures with limited computer applications.
- Learn to compute applied and internal forces acting on construction materials.
- Develop a methodical approach to the design process and awareness of the importance in documenting the process.
- Learn to compute applied and internal forces acting on construction materials.
- Develop an understanding of the properties of materials and sections in order to develop the skills required to design timber and steel structural components.

3. Expected Student Outcomes:

The expected student outcomes in terms of the skills that are developed in this course are:

- Able to complete simple trigonometric analysis required to solve vectors problems.
- Ability to set up problems on paper in a clearly written fashion so that the calculations and procedures can be followed by anyone competent at mathematics. The set out and handwriting required will match the requirements for standard drawing practice as shown in the Architectural Graphic Standards – Student Edition.
- Able to establish and show a co-ordinate system and convention system for the solution of problems.
- Able to solve statics problems in two and three dimensions.
- Able to solve beam problems in two and three dimensions.
- Able to complete Axial Force Diagrams, Shear Force Diagrams and Bending Moment Diagrams using the two internationally acceptable convention systems.
- Able to solve stress analysis problems involving axial, shear and bending loads.
- Able to solve frame problems using steel and timber members.
- Able to solve connection problems.
- Solve moments of inertia using a standard table method for a element containing four non-symmetric elements.

4. Text

- Lecture Notes available in the Engineering Copy Center.
- Highly recommended that the text be brought to lecture.
5. References

- ACI 318-99 Code and Commentary
- AISC 3rd ed. Load and Resistance Factor Design
- AISC 8th ed. Allowable Stress Design
- National Design Specifications for Wood

7. Grading:

Quizzes: There are 12 quizzes  60%

Assignments: There are 14 assignments. 40% (Assignment 1 has double marks)

Quizzes will be given in lecture during the period shown in the program. Make-up quizzes without a University accepted excuse will not be given, without prior arrangement being made in writing with the Professor. You may bring the following into the examination: Scientific calculator, Pencil, Eraser, adjustable Triangle or Ruler & Protractor. All else is to be left in bag.

Quizzes completed in Blue Examination books provided by students.

Assignments completed on green engineering paper (or white from AGC student chapter)

Assignments are due at the time stated on the attached schedule. Late assignments up to 2 days late will incur a 50% mark penalty; no assignments will be accepted after 2 days past the due date. Assignments that are not set out neatly on engineering paper with the Date, Name and Section Number with problem solution clearly highlighted will have a deduction of 10%.

Marks are maintained in a web accessible database. A password will be provided to each student in the first day of class.

The final marks will not scaled. All quizzes carry equal weight in the final mark.

Class attendance will be taken.

8. Student Expectations for Grades

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Mark Range</th>
<th>Student Outcomes expectations for this Grade Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>91-100</td>
<td>The student is expected to be capable of conceptually solving and presenting all problem types listed in the syllabus. The student is not expected to make more than the normally expected simple mathematics errors in the analysis. The exams and the homework will be set out neatly in a legibly written format.</td>
</tr>
<tr>
<td>B</td>
<td>81-90.99</td>
<td>The student is expected to be capable of conceptually solving and presenting all problem types listed in the syllabus. The student makes more than the normally expected simple mathematics errors in the analysis.</td>
</tr>
<tr>
<td>C</td>
<td>71-80.99</td>
<td>The student is expected to be able to conceptually solve the fundamental problems, present the analysis and complete the mathematical steps with limited mathematics errors. The student must be able to solve demonstrate that they can solve the trigonometric problems and moment of inertia problems. The exams and homework are a scribbled mess that can not be followed easily.</td>
</tr>
<tr>
<td>D</td>
<td>61-70.99</td>
<td>The student performs well on the assignments but fails to demonstrate competence on the quizzes.</td>
</tr>
<tr>
<td>F</td>
<td>0-60.99</td>
<td>The student struggles with all quizzes.</td>
</tr>
</tbody>
</table>
9. **Americans with Disabilities Act (ADA) Policy Statement**

The following ADA Policy Statement (part of the Policy on Individual Disabling Conditions) was submitted to the University Curriculum Committee by the Department of Student Life. The policy statement was forwarded to the Faculty Senate for information.

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

Also contact Prof. Nichols at the beginning of the semester if special accommodation is required so that time is available to set up as required.

10. **Academic Integrity Statements** **AGGIE HONOR CODE**

“An Aggie does not lie, cheat, or steal or tolerate those who do.”

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not excuse any member of the TAMU community from the requirements or the processes of the Honor System.

For additional information please visit: http://www.tamu.edu/aggiehonor/

11. **Pledge**

On all course work, assignments, or examinations at Texas A&M University, the following Honor Pledge shall be pre-printed and signed by the student:

“On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work.”

12. **Schedule**

The class schedule is attached to this syllabus. The reading schedule is presented in the following table.
Topic
1. Basic Concepts and Principles
2. Forces
3. Moments
4. Equilibrium of a Particle
5. Free Body Diagrams
6. Support Conditions & Introduction to Trusses
7. Trusses – Method of Joints & Sections, Graphical
8. Pinned Frames & Hinged Arches
9. Distributed Loads on Beams
10. Equivalent Concentrated Loads
11. Structural Properties of Areas - Centroids
12. Structural Properties of Areas - Moment of Inertia
13. Beam Forces
14. Shear and Bending Moment Diagrams
15. Introduction to Mechanics of Materials
16. Material Properties - Stress & Connections
17. Material Properties - Strain, Strength and Elasticity
18. Torsion Stress and Thermal Strain
19. Stresses in Beams - Bending
20. Stresses in Beams – Shear & Connectors Beam
21. Beam Deformation, Load Tracing & Design
22. Timber Design – Beams
23. Design – Tension Members and Connections
24. Stability of Structures & Design
25. Design - Columns
26. Design of Eccentrically Loaded Columns

Articles/Problems
Read: pp. 1-4
Read: pp. 5-22
Read: pp. 22-
Read: pp. 47-58
Read: pp. 58-68
Read: pp. 58-88
Read: pp. 89-119
Read: pp. 173-202
Read: pp. 68-74
Read: 68-74
Read: Chapter 7
Read: Chapter 7
Read: Chapter 8
Read: Chapter 8
Read: Chapter 6
Read: Chapter 6
Read: Chapter 6
Read: Chapter 6
Read: Chapter 8
Read: Chapter 8
Read: Chapters 5 and 8
Read: notes
Read: notes
Read: Chapter 10
Read: Chapter 10
Read: Notes
ATTACHMENT 7

Course Change Request for COSC 323 - Soils in Construction

Change from 3 SCH (2-3) to 2 SCH (1-3)
Texas A&M University

Departmental Request for a Change in Course

Undergraduate • Graduate • Professional

- Submit original form and 2 copies -

1. This request is submitted by the Department of __CONSTRUCTION SCIENCE__

2. Course prefix, number and complete title of course: __COSC 323 - SOILS IN CONSTRUCTION__

3. Change requested:
   a) Prerequisite(s): From ___________________________ To ___________________________
   b) Withdrawal (reason) ___________________________
   c) Cross-list with ___________________________

   Cross-listed courses require the signatures of both department heads.

d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.

e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description:

5. Complete proposed course title and proposed course description (not to exceed 50 words):

6. a) As currently in course inventory:

   Prefix  Course #  Title (exclude punctuation)
   COSC 323  SOILS IN CONSTRUCTION

   Lect. Lab SCH Subject Matter Content Code Admin. Unit FICE Code
   0 2 0 3 0 3

   Do not complete shaded area.

b) Changed to:

   Prefix  Course #  Title (exclude punctuation)
   COSC 323  SOILS IN CONSTRUCTION

   Lect. Lab SCH Subject Matter Content Code Admin. Unit Acad. Year FICE Code
   0 1 0 3 0 2 0 4 0 2 0 1 0 0 0 6 0 7 1 7

Approval recommended by:

Head of Department ___________________________ Date __12/11/06__

Chair, College Review Committee ___________________________ Date __12/11/06__

Head of Department (if cross-listed course) ___________________________ Date __12/11/06__

Dean of College ___________________________ Date __12/11/06__

Submitted to Coordinating Board by: ___________________________ Date ____________

Dean of College ___________________________ Date ____________

Director of Academic Support Services ___________________________ Date ____________

Effective Date ___________________________
COSC 323 - Soils in Construction

Instructor:

Dr. Julian H. Kang
Assistant Professor
Department of Construction Science
College of Architecture
Texas A&M University

Phone: (979) 845-7055
Fax: (979) 862-1572
E-mail: juliankang@tamu.edu
Website: http://people.tamu.edu/~juliankang
Office: Room 010A Williams Administration Building
Office hours: MW 9:00 -10:00 am

Teaching Assistant:

Mr. Harshad Kaple
E-mail: hskaple@yahoo.com
Office: TED
Office hours: TED

Course Description:

Introduction to soils as used in the construction of engineered project. Students learn how to classify soil, determine soil's strength and other engineering properties, interpret soils reports, and control embankment, excavation, and dewatering construction. Students also participate in lab activities where they learn how to identify soil's basic engineering properties.

Course Objectives:

To develop an understanding and proficiency in the application of the principles that governs the use of soils in construction.

Course Format:

Lectures, Labs, Quizzes, Term Project, and 3 Exams
Quizzes and Exams are based on lecture and notes.
Exam 3 is cumulative.
The lowest exam score will be dropped.
Lecture:

- Soil Types
- Soil Lab Test
- Soil Strength
- Soil Field Test
- Review and Exam 01
- Soil Classification, Soil Report
- Soil Embankment and Compaction
- Soil Embankment and Compaction
- Soil Excavation I
- Soil Excavation II
- Review and Exam 02
- Foundation Construction
- Foundation Construction
- Exam 03

Lab:

- Grain-Size Analysis
- Atterberg Limits Test
- Compaction Test
- Tests for Term Project
- Calibration of Instrument
- Direct Shear Test
- Tests for Term Project
- Unconfined Compression Test
- Tri-Axial Compression Test
- Mohr-Circle

- Read all lab materials assigned before the lab.
- A short quiz will be given at the beginning of the lab over this material.
- This quiz will count as 10% of your lab grade.
- Be on time. If you are late and miss the quiz you will receive a 0 for that quiz.
- Dress: you must wear close toed shoes, long pants (no shorts or skirts) and no loose clothing.
- No team member may leave the lab until the lab area is clean.
- Cleaning is the responsibility of all members of the team and may not be assigned to one member.
- It is your responsibility to check with the lab instructor before you go. Any one leaving before the area is cleaned and checked will have 10% deducted from that lab report's grade.
- Lab reports are due one week from the date of the lab they were performed.
- Lab reports are individual efforts, so make sure that you have all the information from the lab before leaving the lab.

Term Project:

- The objective of the team project is to investigate the soil sample and produce a soil report.
- Students form teams of three members and collect a soil sample (in a 5 gallon plastic box) from a construction site of their choice.
- The soil report should present:
  - General information of the project (Location, Foundation type, etc.)
  - Field investigation
  - Lab test result (Sieve Analysis, Atterberg Limits Test, Compaction Test)
  - Analysis (Cu, Cc, Plasticity Index, Name of Soil, Maximum Dry Unit Weight)
  - Conclusions and recommendations
- The soil report should be prepared in Times Roman with single spacing and required to be printed on letter size paper with top, bottom, left, and right margins at 1 in.
- The report should not exceed 4 pages in total length.
Late submission will have the grade reduced by 25% per day.
Three teams (first come first serve) that present their investigation to the class will get up to 5 extra points (in 100 scale). The presentation will be held on 11/27/2006 in class.

Grading:

- Lab: 20%
- Quiz: 10%
- Term Project: 10%
- Exam1: 30%
- Exam2: 30%
- Total: 100%

   - ≥ 90 : A
   - ≥ 80 : B
   - ≥ 70 : C
   - ≥ 60 : D
   - < 60 : F

Recommended Readings:


Class Rules:

- If you miss a class in which a quiz was given, a documented university excused absence is required in order not to receive a grade of zero. With an excused absence, the quiz will be omitted from the grade calculation.
- If you miss one of the major exams with a university excused absence, you will be able to take a make-up exam. If the absence is not excused, a grade of zero will be recorded for that exam.
- You will not receive an excused absence for attending the career fair or for participating in job interviews, either on-or-off campus (Department rule).

Students with Disabilities:

- The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

Academic Integrity:

"An Aggie does not lie, cheat, or steal or tolerate those who do."
Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Academic dishonesty includes the commission of any of the following acts. This listing is not, however, exclusive of any other acts that may reasonably be called academic dishonesty.
- Cheating: Intentionally using or attempting to use unauthorized materials, information, notes, study aids or other devices or materials in any academic exercise.
- Fabrication: Making up data or results, and recording or reporting them; submitting fabricated documents.
- Falsification: Manipulating research materials, equipment, or processes, or changing or omitting data or results such that the research is not accurately represented in the research record.
- Multiple Submissions: Submitting substantial portions of the same work (including oral reports) for credit more than once without authorization from the instructor of the class for which the student submits the work.
- Plagiarism: The appropriation of another person's ideas, processes, results, or words without giving appropriate credit.
- Complicity: Intentionally or knowingly helping, or attempting to help, another to commit an act of academic dishonesty.
ATTACHMENT 9

Course Change Request for COSC 440 - Interdisciplinary Capstone

Change from 4 SCH (2-4) to 3 SCH (2-3)
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of CONSTRUCTION SCIENCE

2. Course prefix, number and complete title of course: COSC 440 INTERDISCIPLINARY CAPSTONE

3. Change requested:
   a) Prerequisite(s): From __________________________ To __________________________
   b) Withdrawal (reason) __________________________
   c) Cross-list with __________________________

   Cross-listed courses require the signatures of both department heads.

   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.

   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description:

   __________________________________________________________________________

5. Complete proposed course title and proposed course description (not to exceed 50 words):

   __________________________________________________________________________

6. a) As currently in course inventory:

   Prefix       Course #   Title (exclude punctuation)
   COSC 440  INTERDISCIPLINE CAPSTONE

   Lect.  Lab  SCH  Subject Matter Content Code  Admin. Unit  FICE Code
   0 2 0 4 0 4 1 5 0 1 0 1 0 0 1 9 0 7 1 7 0 0 3 6 3 2

   b) Changed to:

   Prefix       Course #   Title (exclude punctuation)
   COSC 440  INTERDISCIPLINE CAPSTONE

   Lect.  Lab  SCH  Subject Matter Content Code  Admin. Unit  FICE Code
   0 2 0 3 0 3 1 5 0 1 0 1 0 0 1 9 0 7 1 7 0 8 0 0 3 6 3 2

   Approval recommended by: __________________________
   Head of Department __________________________ Date
   Chair, College Review Committee __________________________ Date
   Dean of College __________________________ Date

   Submitted to Coordinating Board by: __________________________
   Dean of College __________________________ Date

   Director of Academic Support Services __________________________ Date
   Effective Date __________________________

   To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-873-3004.
COSC 440 – INTERDISCIPLINARY CAPSTONE

Dr. Charles W. Graham, A.I.A., F.R.I.C.S.
Room 421, Langford Architecture Building A
Office Hours:
Phone 979-845-0216
Email: cwgraham@archone.tamu.edu
Website: http://archfile.tamu.edu/graham

Description:
A senior capstone course for students preparing to enter the design-build sector of the construction industry; integration of the design and construction processes into a single cohesive project delivery system, starting with project inception, and carrying through construction, operation and maintenance of various types of construction projects.

Student Objectives:
Using the knowledge base from previous Construction Science and related coursework, learn to work in a team environment on a real project. Understand the different project delivery systems available in the commercial sector. Understand the requirements to successfully acquire new work in the design-build sector.

Prerequisites:
COSC 475, COSC 484 or COSC 494.

Textbook:
“Project Delivery Systems for Building Construction” by Robert W. Dorsey

“Project Delivery for Government entities” Texas Society of Architects (2001)

Course Requirements:

Communications: The instructor will communicate with the class via NEO email. Students are responsible to insure that their NEO email address is current and they check their account daily.

Attendance: Attendance is mandatory for this course. Five points will be taken off of the final grade for each unexcused absence. Missing class for job interviews is considered an unexcused absence.
**Presentation:** The class will be broken down into teams and each team will be required to make a written and oral presentation in response to a Request for Proposal. The presentations will be reviewed and rated by a jury of construction industry professionals. One ranking will be done for the written portion; a separate rating will be done for the oral presentation.

**Instructor Evaluation:** The instructor evaluation will be based on:
1. Attendance
2. Class Participation

**Grades:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 - 100%</td>
</tr>
<tr>
<td>B</td>
<td>80 - 89%</td>
</tr>
<tr>
<td>C</td>
<td>70 - 79%</td>
</tr>
<tr>
<td>D</td>
<td>60 - 69%</td>
</tr>
<tr>
<td>F</td>
<td>Less than 60%</td>
</tr>
</tbody>
</table>

**Grade Weights:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weekly Assignments</td>
<td>50%</td>
</tr>
<tr>
<td>Semester Project</td>
<td>20%</td>
</tr>
<tr>
<td>Team Project / Presentation</td>
<td>20%</td>
</tr>
<tr>
<td>Professor Evaluation</td>
<td>9%</td>
</tr>
<tr>
<td>Unannounced Pop Quizzes</td>
<td>1%</td>
</tr>
</tbody>
</table>

**Topics:**

- Development of the Design Build Team
- Project organization, functions on a design – build construction project
- Securing design – build work
- Project execution planning and implementation
  - Design Development
  - Methods of project execution
  - Estimate development
  - Schedule development
  - Project control plans
  - Safety, emergency and contingency plans
  - Mobilization
  - Site logistics and storm water control
- Value engineering
- Comparing delivery / contracting strategies
Americans with Disabilities Act:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

Academic Integrity

AGGIE HONOR CODE

“An Aggie does not lie, cheat, or steal or tolerate those who do.”

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System.

On all course work, assignments, or examinations at Texas A&M University, the following Honor Pledge shall be pre-printed and signed by the student:

“On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work.”
ATTACHMENT 10

Course Change Request for COSC 441 - Residential Capstone

Change from 3 SCH(3-0) to 3 SCH (2-3)
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
* Submit original form and 2 copies *

1. This request is submitted by the Department of CONSTRUCTION SCIENCE

2. Course prefix, number and complete title of course: COSC 441 RESIDENTIAL CONSTRUCTION

3. Change requested:
   a) Prerequisite(s): From ___________________________ To ___________________________
   b) Withdrawal (reason) __________________________________________________________
   c) Cross-list with _______________________________________________________________
      Cross-listed courses require the signatures of both department heads.
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description:

5. Complete proposed course title and proposed course description (not to exceed 50 words):

6. a) As currently in course inventory:

   Prefix  | Course #  | Title (exclude punctuation)
   COSC     | 441       | RESIDENTIAL CONSTRUCTION
   Lect.   | Lab       | SCH | Subject Matter Content Code | Admin. Unit | FICE Code
   0300003160101000190717003632
   Do not complete shaded area.
   Level

   b) Changed to:

   Prefix  | Course #  | Title (exclude punctuation)
   COSC     | 441       | RESIDENTIAL CAPSTONE
   Lect.   | Lab       | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code
   0203031507010001907170708003632
   Level

   Approval recommended by:
   Charles W. Smith
   Head of Department
   Date 12/2/96

   Chair, College Review Committee
   Date

   Head of Department (if cross-listed course)
   Date
   Dean of College
   Date 12/12/96

   Submitted to Coordinating Board by:
   Dean of College
   Date

   Director of Academic Support Services
   Date
   Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737 40 of 65 W
COSC 441 – RESIDENTIAL CAPSTONE

Dr. Charles W. Graham, A.I.A., F.R.I.C.S.
Room 421, Langford Architecture Building A
Office Hours:
Phone 979-845-0216
Email: cwgraham@archone.tamu.edu
Website: http://archfile.tamu.edu/graham

Description:

A senior capstone course for students preparing to enter the residential construction industry; project management; or residential projects, including market analysis, site analysis, residential design, building codes, estimating, scheduling financing, subcontracting, marketing, business planning and current trends in design and construction.

Student Objectives:

Students are exposed to the business world of the residential builder/developer. Home building technologies are also covered.

Prerequisites:

COSC 475, COSC 484 or COSC 494.

Textbook:


Course Requirements:

Communications: The instructor will communicate with the class via NEO email. Students are responsible to insure that their NEO email address is current and they check their account daily.

Attendance: Attendance is mandatory for this course. Five points will be taken off of the final grade for each unexcused absence. Missing class for job interviews is considered an unexcused absence.
Presentation: The class will be broken down into teams and each team will be required to make a written and oral presentation in response to a Request for Proposal. The presentations will be reviewed and rated by a jury of construction industry professionals. One ranking will be done for the written portion; a separate rating will be done for the oral presentation.

Grades:
A  90 – 100%
B  80 – 89%
C  70 – 79%
D  60 – 69%
F  Less than 60%

Grade Weights:
Homework Assignments  39%
Semester Project  60%
Unannounced Pop Quizzes  1%

Topics:
Land acquisition and development
  Subdivision design
  Subdivision infrastructure requirements
  Subdivision regulation and permitting
Market analysis / strategy
Product development
  Types of homes to build
  Mix of homes to build
Estimating
Project Planning / Scheduling
  Scheduling individual homes
  Scheduling development
  Scheduling over all home building
Exit Strategies
Product innovation
Building materials innovation
Americans with Disabilities Act:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

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On all coursework, assignments, or examinations at Texas A&M University, the following Honor Pledge shall be pre-printed and signed by the student:

“On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work.”
ATTACHMENT 11

Course Change Request for COSC 442 – Commercial Capstone

Change from 3 SCH(3-0) to 3 SCH (2-3)
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of CONSTRUCTION SCIENCE

2. Course prefix, number and complete title of course: COSC 442 COMMERCIAL CONSTRUCTION

3. Change requested:
   a) Prerequisite(s): From ___________________________ To ___________________________
   b) Withdrawal (reason) ___________________________
   c) Cross-list with ___________________________

   Cross-listed courses require the signatures of both department heads.

   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.

   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description:

5. Complete proposed course title and proposed course description (not to exceed 50 words):

6. a) As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
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<tbody>
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<td>442</td>
<td>COMMERCIAL CONSTRUCTION</td>
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<table>
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<tr>
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<th>Lab</th>
<th>SCH</th>
<th>Subject Matter Content Code</th>
<th>Admin. Unit</th>
<th>FICE Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>00</td>
<td>0352020500160717003632</td>
<td>Level</td>
<td></td>
</tr>
</tbody>
</table>

   b) Changed to:

<table>
<thead>
<tr>
<th>Prefix</th>
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<td>442</td>
<td>COMMERCIAL CAPSTONE</td>
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Approval recommended by:

Head of Department: ___________________________ Date: ___________________________

Chair, College Review Committee: ___________________________ Date: ___________________________

Head of Department (if cross-listed course): ___________________________ Date: ___________________________

Dean of College: ___________________________ Date: ___________________________

Submitted to Coordinating Board by: ___________________________ Date: ___________________________

Dean of College: ___________________________ Date: ___________________________

Director of Academic Support Services: ___________________________ Date: ___________________________

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-873-45 of 65 W
COSC 442 – COMMERCIAL CAPSTONE

Dr. James C. Smith
105D – Williams Building
Phone 979-845-1017
Email: jsmith@archone.tamu.edu

Description:

A senior capstone course for students preparing to enter the commercial construction sector; project management of commercial construction projects including; aspects of design, bidding/estimating. Presentation, value engineering, contracts/negotiations subcontractor relations, cost control, management during construction, close out post-construction requirements.

Student Objectives:

Using the knowledge base from previous Construction Science and related coursework, learn to work in a team environment on a real project. Understand the different project delivery systems available in the commercial sector. Understand the requirements to successfully acquire new work in the commercial sector.

Special requirements:

This course will use a real project that is provided by J.E. Dunn and will provide technical information and project critiques.

Prerequisites:

COSC 475, COSC 484 or COSC 494.

Textbook:
“Project Delivery Systems for Building Construction” by Robert W. Dorsey

Course Requirements:

Communications: The instructor will communicate with the class via NEO email. Students are responsible to insure that their NEO email address is current and they check their account daily.

Attendance: Attendance is mandatory for this course. Five points will be taken off of the final grade for each unexcused absence. Missing class for job interviews is considered an unexcused absence.
**Presentation:** The class will be broken down into teams and each team will be required to make a written and oral presentation in response to a Request for Proposal. The presentations will be reviewed and rated by a jury of construction industry professionals. One ranking will be done for the written portion; a separate rating will be done for the oral presentation.

**Instructor Evaluation:** The instructor evaluation will be based on:
1. Attendance
2. Class Participation
3. Pop Quiz Grades

**Grades:**
- A 90 – 100%
- B 80 – 89%
- C 70 – 79%
- D 60 – 69%
- F Less than 60%

**Grade Weights:**
- 2 exams @ 20% each 40%
- Written Presentation 20%
- Oral Presentation 20%
- Instructor Evaluation 20%

**Topics:**
- Company development and organization
- Jobsite organization, functions in a commercial construction organization
- Securing work / marketing your organization
- Project execution planning
  - Self perform or subcontract – contract negotiations
  - Estimate development
  - Schedule development
  - Project control plans
- Safety, emergency and contingency plans
- Mobilization
  - Site logistics and storm water control
- Value engineering
- Alternative delivery / contracting strategies
Americans with Disabilities Act:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

Academic Integrity

AGGIE HONOR CODE

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"On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work."
ATTACHMENT 12

Course Change Request for COSC 443 – Industrial Capstone

Change from 3 SCH(3-0) to 3 SCH (2-3)
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of Construction Science

2. Course prefix, number and complete title of course: COSC 443 Industrial Construction

3. Change requested:
   a) Prerequisite(s): From ___________________________ To ___________________________
   b) Withdrawal (reason) ___________________________
   c) Cross-list with ___________________________

   Cross-listed courses require the signatures of both department heads.

   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.

   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description:

   ____________________________________________

5. Complete proposed course title and proposed course description (not to exceed 50 words):

   ____________________________________________

6. a) As currently in course inventory:

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<th>Title (exclude punctuation)</th>
</tr>
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<td>INDUSTRIAL CONSTRUCTION</td>
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   Lect. Lab SCH Subject Matter Content Code Admin. Unit FICE Code
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   b) Changed to:

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<th>Course #</th>
<th>Title (exclude punctuation)</th>
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</thead>
<tbody>
<tr>
<td>COSC</td>
<td>443</td>
<td>INDUSTRIAL CAPSTONE</td>
</tr>
</tbody>
</table>

   Lect. Lab SCH Subject Matter Content Code Admin. Unit Acad. Year FICE Code
   0203 03150101001907170708 003632

   Approval recommended by: ________________________
   ________________________ 12/12/06

   Head of Department Date

   Chair, College Review Committee ________________________
   ________________________ 12/12/06

   Date

   Head of Department (if cross-listed course) ________________________
   ________________________ 12/12/06

   Date

   Submitted to Coordinating Board by: ________________________
   ________________________

   Dean of College Date

   ________________________

   Date

   Director of Academic Support Services ________________________
   ________________________

   Date

   Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
COSC 443 – INDUSTRIAL CAPSTONE

Dr. Nancy L. Holland
Room 435, Langford Architecture Building A
Office Hours:
Phone 979-845-7008
Email: nholland@tamu.edu
Website:

Description:

A senior capstone course for students preparing to enter the industrial construction sector; project management project management of industrial construction projects including; project acquisition, planning and staffing, engineering, procurement, construction, start-up, close-out, operation and maintenance, and turn around..

Student Objectives:

To develop an understanding of industrial construction and the characteristics that makes it different from the sectors of the construction industry.

To develop an understanding of the use of technology and means of communication in the management of an industrial construction project.

Prerequisites:

COSC 475, COSC 484 or COSC 494.

Textbook:

None required

Course Requirements:

Communications: The instructor will communicate with the class via NEO email. Students are responsible to insure that their NEO email address is current and they check their account daily.

Attendance: Attendance is mandatory for this course. Five points will be taken off of the final grade for each unexcused absence. Missing class for job interviews is considered an unexcused absence.
**Presentation:** The class will be broken down into teams and each team will be required to make a written and oral presentation in response to a Request for Proposal. The presentations will be reviewed and rated by a jury of construction industry professionals. One ranking will be done for the written portion; a separate rating will be done for the oral presentation.

**Grades:**

<table>
<thead>
<tr>
<th>Grade</th>
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<tr>
<td>A</td>
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<tr>
<td>B</td>
<td>80 – 89%</td>
</tr>
<tr>
<td>C</td>
<td>70 – 79%</td>
</tr>
<tr>
<td>D</td>
<td>60 – 69%</td>
</tr>
<tr>
<td>F</td>
<td>Less than 60%</td>
</tr>
</tbody>
</table>

**Grade Weights:**

- **Projects:** 70%
- **Exams 2 @ 10%:** 20%
- **Instructor Evaluation:** 10%

**Topics:**

- **Project Planning:**
  - Site planning
  - Project staffing
- **Mobilization**
- **Contractual Relationships**
- **Process Development**
- **Estimating**
- **Document Control**
- **Cost Control**
- **Safety Control**
- **Subcontract Controls**
- **Performance Specifications**
**Americans with Disabilities Act:**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Cain Hall or call 845-1637.

**Academic Integrity**

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ATTACHMENT 13

Course Change Request for COSC 444 - Highway / Heavy Capstone

Change from 3 SCH(3-0) to 3 SCH (2-3)
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and 2 copies •

1. This request is submitted by the Department of  Construction Science

2. Course prefix, number and complete title of course: COSC 444 HIGHWAY/HEAVY CONSTRUCTION

3. Change requested:
   a) Prerequisite(s): From ___________________________________________ To ___________________________________________
   b) Withdrawal (reason) ___________________________________________
   c) Cross-list with ___________________________________________
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description: ___________________________________________
   ___________________________________________
   ___________________________________________
   ___________________________________________

5. Complete proposed course title and proposed course description (not to exceed 50 words): ___________________________________________
   ___________________________________________
   ___________________________________________
   ___________________________________________

6. a) As currently in course inventory:

   Prefix  Course #  Title (exclude punctuation)
   COSC  444  HIGHWAY/HEAVY CONSTRUCTION

   Lect.  Lab  SCH  Subject Matter Content Code  Admin. Unit  FCCE Code
   0 3 0 0 0 3 1 5 0 1 0 0 1 9 0 7 1 7 0 0 3 6 3 2
   Do not complete shaded area.

   b) Changed to:

   Prefix  Course #  Title (exclude punctuation)
   COSC  444  HIGHWAY/HEAVY CAPSTONE

   Lect.  Lab  SCH  Subject Matter Content Code  Admin. Unit  Acad. Year  FCCE Code
   0 2 0 3 0 3 1 5 0 1 0 0 1 9 0 7 1 7 0 7 0 8 0 0 3 6 3 2

   Approval recommended by: ____________________________  ____________________________

   Head of Department  Date  Chair, College Review Committee  Date

   Head of Department (if cross-listed course)  Date  Dean of College  Date

   Submitted to Coordinating Board by: ____________________________

   Dean of College  Date

   Director of Academic Support Services  ____________________________

   Date  Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-873-55 of 65 W
OAR/AS-564
COSC 444 – HIGHWAY / HEAVY CAPSTONE

Leslie Feigenbaum  
Room 219, Langford Architecture Building A  
Office Hours:  
Phone 979-845-7886  
Email: leslief@tamu.edu  
Website:  

Description:

A senior capstone course for students preparing to enter the heavy/highway construction sector; project management project management of heavy/highway projects including; utilization principles fro earth moving, paving and lifting equipment, elements of paving design; unit price bidding methods; management during construction of crews and procurement; progress payments and cash flow management; close out of warranty work.

Student Objectives:

Using the knowledge base from previous Construction Science and related coursework learn to work in a team environment on a real project. Understand the different project delivery systems available in the commercial sector. Understand the requirements to successfully acquire new work in the highway / heavy sector.

Prerequisites:

COSC 475, COSC 484 or COSC 494.

Textbook:

None required

Course Requirements:

Communications: The instructor will communicate with the class via NEO email. Students are responsible to insure that their NEO email address is current and they check their account daily.

Attendance: Attendance is mandatory for this course. Five points will be taken off of the final grade for each unexcused absence. Missing class for job interviews is considered an unexcused absence.
Presentation: The class will be broken down into teams and each team will be required to make a written and oral presentation in response to a Request for Proposal. The presentations will be reviewed and rated by a jury of construction industry professionals. One ranking will be done for the written portion; a separate rating will be done for the oral presentation.

Grades:
A  90 – 100%
B  80 – 89%
C  70 – 79%
D  60 – 69%
F  Less than 60%

Grade Weights:
Projects                      70%
Exams 2 @ 15%                 30%

Topics:

Project Planning:
  Site planning
  Project staffing
Equipment Types
  Equipment acquisition
  Equipment Maintenance
Materials Handling
Mobilization
Unit Price Bidding / Estimating
Field Controls
Workforce supervision and leadership
Document Control
Cost Control
Safety Control
Subcontract Controls
Performance Specifications
**Americans with Disabilities Act:**

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ATTACHMENT 14

Course Change Request for COSC 446 - Specialty Capstone

Change from 3 SCH (3-0) to 3 SCH (2-3)
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of CONSTRUCTION SCIENCE

2. Course prefix, number and complete title of course: COSC 446 SPECIALTY CONSTRUCTION

3. Change requested:
   a) Prerequisite(s): From __________________ To __________________
   b) Withdrawal (reason) ________________________________________________
   c) Cross-list with _____________________________________________________
      Cross-listed courses require the signatures of both department heads.
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description:

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

5. Complete proposed course title and proposed course description (not to exceed 50 words):

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

6. a) As currently in course inventory:

   Prefix Course # Title (exclude punctuation)
   COSC 446 SPECIALTY CONSTRUCTION

   Lect. Lab SCH Subject Matter Content Code Admin. Unit FICE Code
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   Do not complete shaded area.

   b) Changed to:

   Prefix Course # Title (exclude punctuation)
   COSC 446 SPECIALTY CAPSTONE

   Lect. Lab SCH Subject Matter Content Code Admin. Unit Acad. Year FICE Code
   0 2 0 3 0 3 1 5 0 1 0 1 0 0 1 9 0 7 1 7 0 7 0 8 0 0 3 6 3 2

Approval recommended by: Charles W. Hunter 12/12/06
Head of Department Date 12/12/06

Chair, College Review Committee 12/12/06
Dean of College Date

Head of Department (if cross-listed course) Date 12/12/06
Dean of College Date

Submitted to Coordinating Board by: Dean of College Date

Director of Academic Support Services Date Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-873-60 of 65 W
OARAS: 504
COSC 446 – SPECIALTY CAPSTONE

Dr. John A. Bryant, P.E.
Room 305, Langford Architecture Building C
Office Hours:
Phone
Email: jbryant@esl.tamu.edu
Website:
Description:

A senior capstone course for students preparing to enter the mechanical, Electrical or other specialty construction company; project management of specialty contracts, including, project acquisition, schematic design, estimating/bidding, scheduling, systems integration, value engineering, management during construction of crews contract administration, business planning and current industry issues.

Student Objectives:

To synthesize prior course knowledge with applications to specialty Construction. To experience the construction process form project inception through completion with the necessary and varied steps to insure a successful product. To develop a thought process that the student is most likely to utilize in a future employment opportunity within the specialty construction industry.

Prerequisites:

COSC 475, COSC 484 or COSC 494.

Textbook:
None required

Course Requirements:

*Communications:* The instructor will communicate with the class via NEO email. Students are responsible to insure that their NEO email address is current and they check their account daily.

*Attendance:* Attendance is mandatory for this course. Five points will be taken off of the final grade for each unexcused absence. Missing class for job interviews is considered an unexcused absence.
*Presentation:* The class will be broken down into teams and each team will be required to make a written and oral presentation in response to a Request for Proposal. The presentations will be reviewed and rated by a jury of construction industry professionals. One ranking will be done for the written portion; a separate rating will be done for the oral presentation.

**Grades:**

- A  
  90 – 100%
- B  
  80 – 89%
- C  
  70 – 79%
- D  
  60 – 69%
- F  
  Less than 60%

**Grade Weights:**

- 1st Project Design / Estimate / Schedule  
  35%
- 2nd Project Design / Estimate / Schedule  
  35%
- Value Engineering  
  10%
- Class Participation  
  10%
- Instructor Evaluation  
  10%

**Topics:**

- Introduction, Overview and Projects
- Company Development
- Review of:
  - Mechanical Design
  - Electrical Design
  - Estimating of Specialty Items
  - Scheduling of Specialty Items
- Mechanical / Electrical Project Management
- Workforce Supervision
- Value Engineering
- Contract Negotiations
- Cost Controls
Americans with Disabilities Act:

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ATTACHMENT 8

Course Change Request for COSC 464 - Construction Safety

Title Change
Texas A&M University  
Departmental Request for a Change in Course  
Undergraduate • Graduate • Professional  
• Submit original form and 2 copies •  

1. This request is submitted by the Department of CONSTRUCTION SCIENCE  

2. Course prefix, number and complete title of course: COSC 464 • CONSTRUCTION SAFETY  

3. Change requested:  
   a) Prerequisite(s): From ___________________________ To ___________________________  
   b) Withdrawal (reason) ___________________________  
   c) Cross-list with ___________________________  
      Cross-listed courses require the signatures of both department heads.  
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.  
   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.  

4. Complete current course title and current course description:  

5. Complete proposed course title and proposed course description (not to exceed 50 words):  

6. a) As currently in course inventory:  
   
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   b) Changed to:  
   
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<th>Admin. Unit</th>
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</tr>
</tbody>
</table>

   Approval recommended by:  
   
   Chair, College Review Committee  
   Date  
   Head of Department  
   Date  
   Head of Department (if cross-listed course)  
   Date  
   Dean of College  
   Date  
   Submitted to Coordinating Board by:  
   Dean of College  
   Date  
   Date  
   Effective Date  

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737. 65 of 65 W  
OAM/AB 504