Course Change Requests:

CHEN 681. Seminar.

Description Change:

FROM: Graduate students will be required to attend discussions covering problems of current importance in chemical engineering research.

TO: Presentations and discussions covering problems of current importance in chemical engineering research.

CHEN 684. Professional Internship.

Prerequisite Change:

FROM: Graduate classification.

TO: Approval of chair of student’s advisory committee and department head.

Description Change:

FROM: Each semester – Engineering research or design experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative.

TO: Engineering research experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative.

CHEN 685. Directed Studies.

Description Change:

FROM: One or more numerous problems in chemical engineering processes and operations.

TO: Limited investigations in fields other than those chosen for thesis or dissertation research and not covered by other formal courses.

CHEN 691. Research.

Description Change:

FROM: Problems of unit operations and unit processes. For maximum credit, comprehensive thesis must be prepared of sufficiently high calibre to permit publication in scientific and technical journals.

TO: Research for thesis or dissertation.

Description Change:

FROM: Theory of mechanical and chemical stabilization of soils and soil-aggregate systems.

TO: Theory and practice of chemical stabilization of soils and aggregate systems with traditional methods of chemical stabilization including Portland cement, lime, fly ash and by products (kiln dusts, fly ash and slag materials); selected non-traditional methods including polymers, ionic systems, and enzymes; mechanisms and methods to avoid deleterious reactions.

ECEN 612. Computer Aided Sign of Electromechanical Motion Devices.

Courses Hours:

FROM: (3-0). Credit 3.

TO: (3-1). Credit 4.

Course Withdrawals:

CSCE 607. Software Models and Metrics.

CSCE 609. AI Approaches to Software Engineering.

CSCE 615. Distributed Component Architecture.

CSCE 618. Resilient Computer Systems.


CSCE 651. Simulation I.

CSCE 677. Switching Theory.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

1. Request submitted by (Department or Program Name): Artie McFerrin Department of Chemical Engineering

2. Course prefix, number and complete title of course: CHEN 681 Seminar

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

   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked:

5. Complete current course title and current catalog course description:
   Seminar- Graduate students will be required to attend discussions covering problems of current importance in chemical engineering research.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Seminar- Presentations and discussions covering problems of current importance in chemical engineering research.

7. As currently in course inventory:

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   Change to:

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   Approval recommended by:

   Michael Pishko 04/26/2011
   Department Head or Program Chair (Type Name & Sign) Date

   Robin Autenrieth 5/13/11
   Chair, College Review Committee Date

   Robin Autenrieth 5/13/11
   Dean of College Date

   Mark Fall 9/11/2011
   Chair, GC or UCC Date

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
   Curricular Services – 02/11
Rationale for the changes:

The main reason for suggesting changes for any of these four courses is to update the course description and prerequisites to more accurately reflect what the student has to do when registering for these. Some specific comments are given below:


The old text just referred to students having to attend discussions. However, it is more accurate to describe (a) what is done in CHEN 681 in a course description, rather than describe what the expectations of the students are, and (b) CHEN 681 consists of presentations and discussions and not just a discussion which the students have to passively attend.

684. Professional Internship. Credit 1 to 4.

We suggest to make several changes to this "course":

- Add the line in the course description that states that no more than 4 credit hours total of CHEN 684 can be taken, i.e., this would usually be a student registering for 1 credit hour of CHEN 684 for four summers.

- Change the credit from "1 to 4 each semester" to "1 to 4" as that is the description that most departments in the college use.

- Change the prerequisite to include approval from the student's advisor and the department head. We suggest this change as it is appropriate that a student's advisor consents to the student being gone from campus for a semester to work on an internship. Similarly, since the department head may need to sign required immigration forms for international students, it makes sense to require approval of the department head for this.

- There are some minor changes to the wording of the course description.

685. Directed Studies. Credit 1 to 12.

The old text was so general that it could mean anything. The new text is more in line with what the course is used for and also is similar to what other departments in the college are using.

691. Research. Credit 1 or more each semester.

The old text does not accurately describe what students do when they register for this course. The new description is shorter, up-to-date, and more concise.
New:


Presentations and discussions covering problems of current importance in chemical engineering research.

684. Professional Internship. Credit 1 to 4.

Engineering research experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative. Prerequisite: Approval of chair of student's advisory committee and department head.

685. Directed Studies. Credit 1 to 12.

Limited investigations in fields other than those chosen for thesis or dissertation research and not covered by other formal courses. Prerequisite: Approval of department head.

691. Research. Credit 1 or more each semester.

Research for thesis or dissertation. Prerequisite: Approval of department head.
Old:


Graduate students will be required to attend discussions covering problems of current importance in chemical engineering research.

684. Professional Internship. Credit 1 to 4 each semester.

Engineering research or design experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative. Prerequisite: Graduate classification.

685. Directed Studies. Credit 1 to 12.

One or more of numerous problems in chemical engineering processes and operations. Prerequisite: Approval of department head.

691. Research. Credit 1 or more each semester.

Problems of unit operations and unit processes. For maximum credit, comprehensive thesis must be prepared of sufficiently high calibre to permit publication in scientific and technical journals. Prerequisite: Approval of department head.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
* Submit original form and attachments *

1. Request submitted by (Department or Program Name):
   Arlie McFerrin Department of Chemical Engineering

2. Course prefix, number and complete title of course:
   CHEN 684 Professional Internship

3. Change requested
   Attach a brief supporting statement for changes made to items 3a thru 3d, and 6 below.
   a. Prerequisite(s) From: To:
   b. Withdrawal (reason):
   c. Cross-list with:
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.
   f. For informational purposes only, please indicate course number if this course will be stacked:

4. Complete current course title and current catalog course description:
   Professional Internship. Credit 1 each semester. Engineering research or design experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative.

5. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Professional Internship. Credit 1 Engineering research experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Professional Internship. Credit 1 Engineering research experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative.

7. a. As currently in course inventory:

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   Approval recommended by:
   Michael Plishko Department Head or Program Chair (Type Name & Sign) Date 5/13/11
   Chair, College Rules Committee Date

   Department Head or Program Chair (Type Name & Sign) Date (if cross-listed course)
   Robin Autenrieth 5/13/11
   Dean of College Date
   Mark Zoran Chair, GC or GCC Date 9/1/2011

   Submitted to Coordinating Board by:
   Date Effective Date
   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 02/11
Rationale for the changes:

The main reason for suggesting changes for any of these four courses is to update the course description and prerequisites to more accurately reflect what the student has to do when registering for these. Some specific comments are given below:


The old text just referred to students having to attend discussions. However, it is more accurate to describe (a) what is done in CHEN 681 in a course description, rather than describe what the expectations of the students are, and (b) CHEN 681 consists of presentations and discussions and not just a discussion which the students have to passively attend.

684. Professional Internship. Credit 1 to 4.

We suggest to make several changes to this "course":

- Add the line in the course description that states that no more than 4 credit hours total of CHEN 684 can be taken, i.e., this would usually be a student registering for 1 credit hour of CHEN 684 for four summers.

- Change the credit from "1 to 4 each semester" to "1 to 4" as that is the description that most departments in the college use.

- Change the prerequisite to include approval from the student's advisor and the department head. We suggest this change as it is appropriate that a student's advisor consents to the student being gone from campus for a semester to work on an internship. Similarly, since the department head may need to sign required immigration forms for international students, it makes sense to require approval of the department head for this.

- There are some minor changes to the wording of the course description.

685. Directed Studies. Credit 1 to 12.

The old text was so general that it could mean anything. The new text is more in line with what the course is used for and also is similar to what other departments in the college are using.

691. Research. Credit 1 or more each semester.

The old text does not accurately describe what students do when they register for this course. The new description is shorter, up-to-date, and more concise.
New:


Presentations and discussions covering problems of current importance in chemical engineering research.

684. Professional Internship. Credit 1 to 4.

Engineering research experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative. Prerequisite: Approval of chair of student’s advisory committee and department head.

685. Directed Studies. Credit 1 to 12.

Limited investigations in fields other than those chosen for thesis or dissertation research and not covered by other formal courses. Prerequisite: Approval of department head.

691. Research. Credit 1 or more each semester.

Research for thesis or dissertation. Prerequisite: Approval of department head.
Old:


Graduate students will be required to attend discussions covering problems of current importance in chemical engineering research.

684. Professional Internship. Credit 1 to 4 each semester.

Engineering research or design experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative. Prerequisite: Graduate classification.

685. Directed Studies. Credit 1 to 12.

One or more of numerous problems in chemical engineering processes and operations. Prerequisite: Approval of department head.

691. Research. Credit 1 or more each semester.

Problems of unit operations and unit processes. For maximum credit, comprehensive thesis must be prepared of sufficiently high calibre to permit publication in scientific and technical journals. Prerequisite: Approval of department head.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

1. Request submitted by (Department or Program Name): Arte McFerrin Department of Chemical Engineering

2. Course prefix, number and complete title of course: CHEN 685 Directed Studies

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 in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7.  Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked: ________________________________

5. Complete current course title and current catalog course description: Directed Studies - One or more of numerous problems in chemical engineering processes and operations.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Directed Studies - Limited investigations in fields other than those chosen for thesis or dissertation research and not covered by other formal courses.

7. a. As currently in course inventory:

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Approval recommended by: ________________________________

Michael Pishko
Department Head or Program Chair (Type Name & Sign) Date 5/13/11

Robin Autenrieth
Chair, College Review Committee Date 5/13/11

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Dean of College Date

Mark Neipper
Chair, GC or UCC Date 9/1/2011

Submitted to Coordinating Board by: ________________________________

Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.

Curricular Services – 02/11
Rationale for the changes:

The main reason for suggesting changes for any of these four courses is to update the course description and prerequisites to more accurately reflect what the student has to do when registering for these. Some specific comments are given below:


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684. Professional Internship. Credit 1 to 4.

We suggest to make several changes to this "course":

- Add the line in the course description that states that no more than 4 credit hours total of CHEN 684 can be taken, i.e., this would usually be a student registering for 1 credit hour of CHEN 684 for four summers.

- Change the credit from "1 to 4 each semester" to "1 to 4" as that is the description that most departments in the college use.

- Change the prerequisite to include approval from the student's advisor and the department head. We suggest this change as it is appropriate that a student's advisor consents to the student being gone from campus for a semester to work on an internship. Similarly, since the department head may need to sign required immigration forms for international students, it makes sense to require approval of the department head for this.

- There are some minor changes to the wording of the course description.

685. Directed Studies. Credit 1 to 12.

The old text was so general that it could mean anything. The new text is more in line with what the course is used for and also is similar to what other departments in the college are using.

691. Research. Credit 1 or more each semester.

The old text does not accurately describe what students do when they register for this course. The new description is shorter, up-to-date, and more concise.

Presentations and discussions covering problems of current importance in chemical engineering research.

684. Professional Internship. Credit 1 to 4.

Engineering research experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative. Prerequisite: Approval of chair of student’s advisory committee and department head.

685. Directed Studies. Credit 1 to 12.

Limited investigations in fields other than those chosen for thesis or dissertation research and not covered by other formal courses. Prerequisite: Approval of department head.

691. Research. Credit 1 or more each semester.

Research for thesis or dissertation. Prerequisite: Approval of department head.
Old:


Graduate students will be required to attend discussions covering problems of current importance in chemical engineering research.

684. Professional Internship. Credit 1 to 4 each semester.

Engineering research or design experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative. Prerequisite: Graduate classification.

685. Directed Studies. Credit 1 to 12.

One or more of numerous problems in chemical engineering processes and operations. Prerequisite: Approval of department head.

691. Research. Credit 1 or more each semester.

Problems of unit operations and unit processes. For maximum credit, comprehensive thesis must be prepared of sufficiently high calibre to permit publication in scientific and technical journals. Prerequisite: Approval of department head.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional

1. Request submitted by (Department or Program Name):
   Artie McFerrin Department of Chemical Engineering
   CHEN 691 Research

2. Course prefix, number and complete title of course:
   CHEN 691 Research

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

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

   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

   e. Change in course number, contac: hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked: ___________________________

5. Complete current course title and current catalog course description:
   Research- Problems of unit operations and unit processes. For maximum credit, comprehensive thesis must be prepared of sufficiently high calibre to permit publication in scientific and technical journals.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Research- Research for thesis or dissertation.

7. As currently in course inventory:

   Prefix  Course #  Title (excluding punctuation)  Lect.  Lab  SCH  CIP and Fund Code  Admin. Unit  FICE Code  Level
   CHEN  691  RESEARCH  2  3  0  0  2  3  1  4  0  7  0  1  0  0  6  0  5  9  0  0  3  6  3  2  6

   a. Change to:

   Prefix  Course #  Title (excluding punctuation)  Lect.  Lab  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE Code
   ___________________________

   Approval recommended by:
   Michael Pishko  For  04/21/2011
   Department Head or Program Chair (Type Name & Sign)  Date

   Robin Autenrieth  5/13/11
   Chair, College Review Committee  Date

   Robin Autenrieth  5/13/11
   Dean of College  Date

   Mark Zorn  9/11/2011
   Chair, GC or UC  Date

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 02/11
Rationale for the changes:

The main reason for suggesting changes for any of these four courses is to update the course description and prerequisites to more accurately reflect what the student has to do when registering for these. Some specific comments are given below:


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684. Professional Internship. Credit 1 to 4.

We suggest to make several changes to this "course":

- Add the line in the course description that states that no more than 4 credit hours total of CHEN 684 can be taken, i.e., this would usually be a student registering for 1 credit hour of CHEN 684 for four summers.

- Change the credit from "1 to 4 each semester" to "1 to 4" as that is the description that most departments in the college use.

- Change the prerequisite to include approval from the student's advisor and the department head. We suggest this change as it is appropriate that a student's advisor consents to the student being gone from campus for a semester to work on an internship. Similarly, since the department head may need to sign required immigration forms for international students, it makes sense to require approval of the department head for this.

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691. Research. Credit 1 or more each semester.

The old text does not accurately describe what students do when they register for this course. The new description is shorter, up-to-date, and more concise.
New:


Presentations and discussions covering problems of current importance in chemical engineering research.

684. Professional Internship. Credit 1 to 4.

Engineering research experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative. Prerequisite: Approval of chair of student's advisory committee and department head.

685. Directed Studies. Credit 1 to 12.

Limited investigations in fields other than those chosen for thesis or dissertation research and not covered by other formal courses. Prerequisite: Approval of department head.

691. Research. Credit 1 or more each semester.

Research for thesis or dissertation. Prerequisite: Approval of department head.
Old:


Graduate students will be required to attend discussions covering problems of current importance in chemical engineering research.

684. Professional Internship. Credit 1 to 4 each semester.

Engineering research or design experience in industrial setting away from Texas A&M campus; projects supervised jointly by faculty and industrial representative. Prerequisite: Graduate classification.

685. Directed Studies. Credit 1 to 12.

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691. Research. Credit 1 or more each semester.

Problems of unit operations and unit processes. For maximum credit, comprehensive thesis must be prepared of sufficiently high calibre to permit publication in scientific and technical journals. Prerequisite: Approval of department head.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments
Form Instructions
1. Request submitted by (Department or Program Name): Zachry Department of Civil Engineering
2. Course prefix, number and complete title of course: CVEN 614 Stabilization of Soil-Aggregate Systems
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 in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.
4. For informational purposes only, please indicate course number if this course will be stacked: ________________
5. Complete current course title and current catalog course description: Stabilization of Soil-Aggregate Systems

Theory of mechanical and chemical stabilization of soils and soil-aggregate systems

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Stabilization of Soil-Aggregate Systems. Theory and practice of chemical stabilization of soils and aggregate systems with traditional methods of chemical stabilization including Portland cement, lime, fly ash and by products (clinker dust), fly ash and slag materials; selected non-traditional methods including polymers, ionic systems, and enzymes; mechanisms and methods to avoid deleterious reactions.

7. a. As currently in course inventory:

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   Lect Lab SCH CIP and Fund Code  Actum Unit Acad Year ECT Code  Level
   03 00 03 14 08 01 00 06 06 30 01 2 - 13 00 36 32 6

Approval recommended by: John Niedzwecki Date 7/21/11
Department Head or Program Chair (Type Name & Sign)

Robin Autenrieth Chair, College DAS Committee Date 9/10/11
Dean of College

Mark Zook Chair, CE or UGC Date 9/1/2011

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu

Curricular Services – 02/11
Instructor: Dallas N. Little, Ph.D., P.E.
E.B. Snead Chair Professor

Office: Suite 603 CE/TITI Bldg.
Phone: 845-9847
E-mail: d-little@tamu.edu

Homepage: http://cenotes.tamu.edu
Office hours: M, W, 4:00 - 6:00 p.m.

Supplementary References to be handed out in class

Credit: 3

Lecture location: CE 223
Lecture time: TTH 2:20 – 3:10

COURSE DESCRIPTION

Theory and practice of chemical stabilization of soils and aggregate systems with traditional methods of chemical stabilization including Portland cement, lime, fly ash and by products (kiln dusts, fly ash and slag materials); selected non-traditional methods including polymers, ionic systems, and enzymes; mechanisms and methods to avoid deleterious reactions.

GRADING POLICY

Two Major Exams 70%
Homework Assignments 30%

GRADING SCALE

<table>
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<th>Score Range</th>
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<tr>
<td>100 – 90</td>
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<td>89 – 80</td>
<td>B</td>
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<td>69 – 60</td>
<td>D</td>
</tr>
<tr>
<td>&lt; 60</td>
<td>F</td>
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</tbody>
</table>

COURSE OBJECTIVES

• To understand the mechanisms of chemical stabilization of soils and aggregate systems
• To relate fundamental mechanisms of stabilization to practical benefits derived through stabilization
OFFICIAL NOTICES

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 Disability Services in Cain Hall, Room B118 or call 845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity Statement

"An Aggie does not lie, cheat, or steal or tolerate those who do." Students are expected to understand and abide by the Aggie Honor Code presented on the web at: http://www.tamu.edu/aggiehonor. No form of scholastic misconduct will be tolerated. Academic misconduct includes cheating, fabrication, falsification, multiple submissions, plagiarism, complicity, etc. These are more fully defined in the above web site. Violations will be handled in accordance with the Aggie Honor System Process described on the web site.

Attendance/late work policies

Students are expected to attend all examinations required by departments or advisory committees as scheduled formally. Students who are requesting an excused absence are expected to uphold the Aggie Honor Code and Student Conduct Code (See Rule 24).

COURSE OUTLINE

<table>
<thead>
<tr>
<th>DATE</th>
<th>TOPIC</th>
<th>ASSIGNMENT FROM TEXTS (HANDOUTS WILL BE GIVEN WHERE APPROPRIATE)</th>
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<tr>
<td>Jan 20 and 22</td>
<td>Introduction to class and Fundamentals of soils</td>
<td>Mitchell – Chapter 2 (pp. 5 – 34); Chapter 3 (pp. 35 – 70)</td>
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<tr>
<td>Jan 27 and 29</td>
<td>Double water layer theory and its effect on stabilization</td>
<td>Mitchell Chapter 6 (pp. 142 – 169)</td>
</tr>
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<td>Feb 3 and 5</td>
<td>Determination of soil composition, soil weathering and pedology and its impact on stabilization, use of NRSC County soil survey, shrink-swell phenomena</td>
<td>Mitchell – Chapter 3 (pp. 70 – 81); Chapter 4 (pp. 83 – 107)</td>
</tr>
<tr>
<td>Feb 10 and 12</td>
<td>Soil stabilization with lime: basic reactions, engineering properties, construction</td>
<td>NLA: Vol. 1 and 2 (<a href="http://www.lime.org">www.lime.org</a>) Little, Chapter 4; NCHRP 20-07 (standard)</td>
</tr>
<tr>
<td>Date</td>
<td>Topic</td>
<td>Reference</td>
</tr>
<tr>
<td>-------------</td>
<td>----------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------</td>
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<tr>
<td>Feb 17 and 19</td>
<td>Soil stabilization with Portland cement: basic reactions, engineering properties, construction techniques, mixture design</td>
<td>NCHRP 20-07 (Standard Recommended Practice for Stabilization of Subgrade Soils and Base Materials – parts pertaining to PC)</td>
</tr>
<tr>
<td>Mar 3 and 5</td>
<td>Sulfate reactions</td>
<td>NCHRP 20-07 (Standard Recommended Practice for Stabilization of Sulfate-Bearing Subgrade Soils Standard Method of Test for Determining Water-Soluble Sulfate Ion Content in Soils;</td>
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<tr>
<td>Date</td>
<td>Topic</td>
<td>Notes</td>
</tr>
<tr>
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<td>--------------------------------------------</td>
<td>----------------------------------------------------------------------</td>
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<tr>
<td>Mar 10 and 12</td>
<td>Sulfate reactions</td>
<td>Various journal papers will be assigned authored by Little et al. (5), Hunter (1), Mitchell et al. (2), and Harris et al. (1)</td>
</tr>
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<td>Mar 24</td>
<td>Exam No 1</td>
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<tr>
<td>Mar 26 and 31</td>
<td>Stabilization with asphalt emulsions and combination stabilization</td>
<td>New MS-19</td>
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<tr>
<td>Apr 2 and 9</td>
<td>Foamed asphalt</td>
<td>Various papers will be assigned that report the latest methodology and successes for South Africa, New Zealand, Australia, Europe, and the U.S.</td>
</tr>
<tr>
<td>Apr 14 and 16</td>
<td>Non-traditional stabilizers</td>
<td>Journal papers by Schleon (1), Rauch et al.(2), and Little (1) will be assigned</td>
</tr>
<tr>
<td>Apr 21 and 23</td>
<td>Treatment of stabilized layers in the NCHRP 137A Mechanistic Pavement Design Guide (MEPDG)</td>
<td>Reading assignment for the MEPDG</td>
</tr>
<tr>
<td>Apr 28 and 30</td>
<td>Case histories</td>
<td>Forensic investigations and unique methods</td>
</tr>
<tr>
<td>May 5</td>
<td>Course review</td>
<td></td>
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<td>May 13</td>
<td>Exam No 2</td>
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Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Request submitted by (Department or Program Name): ECEN 612
2. Course prefix, number and complete title of course: Computer Aided Design of Electromechanical Motion Devices
   Attach a brief supporting statement for changes made to items 3a thru 3d, and 6 below.
3. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.
4. For informational purposes only, please indicate course number if this course will be stacked: ___________________________
5. Complete current course title and current catalog course description:

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

7. a. As currently in course inventory:

   Prefix | Course # | Title (excluding punctuation) |
   ------ | -------- | ----------------------------- |
   ECEN 612 | COMPUTER AIDED DESIGN |

   Lect. | Lab | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
   ------ | ---- | ---- | ----------------- | ------------ | ---------- | ------ |
   0301041410010006093611-12003632 |

   Approval recommended by:
   Department Head or Program Chair (Type Name & Sign) Date
   Dr. C. Georganides 8/11

   Department Head or Program Chair (Type Name & Sign) Date
   Dr. J. Zolar 9/11

   Submitted to Coordinating Board by:
   Associate Director, Curricular Services Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
ELEN 612

Computer Aided Design of Electromechanical Motion Devices

Instructor: Dr. Hamid A. Toliyat
Room 219C Zachry Engineering Center
Tel: 862-3034
E-mail: toliyat@ece.tamu.edu

Prerequisite: Electric machines, electromagnetics and consent of professor

Description: Credit 4 (3 hours of lecture plus 3 hours of laboratory). It is
the purpose of this course to present the theory and design
of electromechanical motion devices. A scientific basis for
the design of these devices will be introduced. Theories
will be evolved from most fundamental concepts so that
students can grasp the subject properly. Examples in a
particular topic will be solved by standard steps.
Equivalent circuits from the design equations will be
developed. Computer aided design packages such as Finite
element analysis as a tool for modeling electromechanical
motion devices will be used through out the course.

Course Time and Room: TR 2:20-3:55 p.m. ZEC 223C
Office Hours: TR 4:00-5:00 p.m. or any other time by appointment

References:
1- Design of Rotating Electrical Machines, J. Pyrhone, T. Jokinen, and V. Hrabovcova,
2- Polyphase Induction Motors, Analysis, Design, and Applications, P. C. Cochran, New
   York, Marcel Dekker
3- Design of Brushless Permanent-Magnet Motors by J.R. Hendershot JR, and T.J.E.
5- Switched Reluctance Motors and their Control, T.J.E. Miller, Oxford University
2- Class notes and IEEE papers

Grading Policy
Homework: 30%
Midterm Exam: 20%
Project: 50%
Course Syllabus:

1- Magnetic circuits [6]
2- The MMF and Field Distribution of an ac Winding [5]
3- Application of Magnetic Circuits to Main Flux Path Calculations [7]
4- Application of Magnetic Circuits to Leakage Reactance Calculations [4]
5- Calculation of Induction Machine Losses [4]
6- Principle of Design [3]
7- Electromagnetic Design of Synchronous Machines [6]
8- Electromagnetic Design of Permanent Magnet Machines [3]
9- Electromagnetic Design of Switched Reluctance Machines [3]
10- Finite Element Solution of Magnetic Circuits [3]

Total Class Hours: 45

Laboratory Syllabus:

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<th>Description</th>
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<tr>
<td>Lab #1</td>
<td>Computer Aided Design of Actuators</td>
<td>1 week</td>
</tr>
<tr>
<td>Lab #2</td>
<td>Computer Aided Design of Transformers</td>
<td>1 week</td>
</tr>
<tr>
<td>Lab #3</td>
<td>Computer Aided Design of Induction Machines</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Lab #4</td>
<td>Computer Aided Design of Synchronous Machines</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Lab #5</td>
<td>Computer Aided Design of Permanent Magnet Machines</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Lab #6</td>
<td>Computer Aided Design of Permanent Magnet-assisted Synchronous Reluctance Machines</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Lab #7</td>
<td>Computer Aided Design of Switched Reluctance Machines</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Lab #8</td>
<td>Computer Aided of Magnetic Gears</td>
<td>2 weeks</td>
</tr>
</tbody>
</table>

Total Lab Hours: 42
June 6, 2011

MEMORANDUM

TO: Dr. K.L. Butler-Purry  
Dean of Office of Graduate Studies

THROUGH: Dr. R. Autenrieth  
Associate Dean, College of Engineering

FROM: Dr. S. Miller  
Professor & Graduate Coordinator

SUBJECT: Change in Credit Hours for
ECEN 612 Computer Aided Design of Electromechanical Motion Devices

Dr. H. Toliyat has requested to change the credit hours for ECEN 612 from three (3) credit hours to four (4) credit hours to reflect the lab that is associated with the course.

I appreciate your cooperation in this matter.

CC: Attachments

/alc
Withdrawals
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Request submitted by (Department or Program Name): Department of Computer Science and Engineering
2. Course prefix, number and complete title of course: CSCE 607, Software Models and Metrics

Attach a brief supporting statement for changes made to items 3a thru 3d, and 6 below.

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

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

d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked: ____________________________

5. Complete current course title and current catalog course description: ____________________________

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

   a. As currently in course inventory:

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<thead>
<tr>
<th>Prefix</th>
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<tbody>
<tr>
<td>CSCE 607</td>
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   b. Change to:

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<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
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</thead>
</table>

   Approval recommended by:

   Ricardo Gutierrez-Osuna
   Department Head or Program Chair (Type Name & Sign) Date
   7/1/2011

   Department Head or Program Chair (Type Name & Sign) Date
   (if cross-listed course)

   Chair, College Review Committee
   Date
   8-10-11

   Chair, CS or UCC
   Date
   9/1/2011

   Mark J. Zoran
   Date
   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments

1. Request submitted by (Department or Program Name): Department of Computer Science and Engineering
2. Course prefix, number and complete title of course: CSCE 609, AI Approaches to Software Engineering

Attach a brief supporting statement for changes made to items 3a thru 3d, and 6 below.

3. Change requested
   a. Prerequisite(s): From: To:
   b. Withdrawal (reason): No longer being taught
   c. Cross-list with:

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

   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked:

5. Complete current course title and current catalog course description:

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

7. a. As currently in course inventory:

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</table>

   Approval recommended by Ricardo Gutierrez-Osuna
   Department Head or Program Chair (Type Name & Sign) Date

   Department Head or Program Chair (Type Name & Sign) Date (if cross-listed course)

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services

   Chair, College Review Committee Date
   Dean of College Date

   Chair, GO or UCC Date

   Curricular Services – 02/11
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

1. Request submitted by (Department or Program Name): Department of Computer Science and Engineering
2. Course prefix, number and complete title of course: CSCE 615, Distributed Component Architecture

Attach a brief supporting statement for changes made to items 3a thru 3d, and 6 below.

3. Change requested
   a. Prerequisite(s): From: __________________________ To: __________________________
   b. Withdrawal (reason): No longer being taught
   c. Cross-list with: __________________________
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked:

5. Complete current course title and current catalog course description:

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<td>Level</td>
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Approval recommended by:
Donald Friesen 9/6/11
Department Head or Program Chair (Type Name & Sign) Date

Department Head or Program Chair (Type Name & Sign) Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Texas A&M University

Departmental Request for a Change in Course

Undergraduate • Graduate • Professional

• Submit original form and attachments •

Form Instructions:

1. Request submitted by (Department or Program Name): Department of Computer Science and Engineering

2. Course prefix, number and complete title of course: CSCE 618, Resilient Computer Systems

3. Change requested
   a. Prerequisite(s): From: __________________ To: __________________
   b. Withdrawal (reason): No longer being taught
   c. Cross-list with: ECEN 618, Resilient Computer Systems
     Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked:

5. Complete current course title and current catalog course description:

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

7. a. As currently in course inventory:

    Prefix | Course # | Title (excluding punctuation) |
    ------ | -------- | ----------------------------- |
    CSCE  | 618     | RESILIENT COMPUT SYST     |
    Lect. | Lab     | SCH | CIP and Fund Code | Admin. Unit | FICE Code |
    0 3 0 0 0 3 1 4 0 9 0 1 0 0 0 0 6 0 7 2 1 0 1 0 2 9 8 6 |

    b. Change to:

    Prefix | Course # | Title (excluding punctuation) |
    ------ | -------- | ----------------------------- |
    Lect. | Lab     | SCH | CIP and Fund Code | Admin. Unit | FICE Code |
    0 3 0 0 0 3 1 4 0 9 0 1 0 0 0 0 6 0 7 2 1 0 1 0 2 9 8 6 |

Approval recommended by:
Ricardo Gutierrez-Osuna
Chair, College Review Committee
Date: 7/11/2011

C. Georgiades
Department Head or Program Chair (Type Name & Sign) Date: 1/28/11

Dean of College
Date: 8/10/11

Submitted to Coordinating Board by:
Chair, GC of UCC
Mark J. Zonan
Date: 9/1/2011

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Texas A&M University

Departmental Request for a Change in Course

Undergraduate • Graduate • Professional

Submit original form and attachments.

1. Request submitted by (Department or Program Name): Department of Computer Science and Engineering

2. Course prefix, number and complete title of course: CSCE 623, Parallel Geometric Computing

3. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ECEN 623, Parallel Geometric Computing

4. For informational purposes only, please indicate course number if this course will be stacked: ___________________________

5. Complete current course title and current catalog course description:

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

7. a. As currently in course inventory:

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<tr>
<th>Prefix</th>
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<th>Title (excluding punctuation)</th>
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</thead>
<tbody>
<tr>
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<td>PARALLEL GEOMETRIC COMPUTING</td>
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   Lect. | Lab | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level
   0     | 3   | 0   | 3 1 1 0 2 0 1 0 0 | 6 0 7 2 1    | 0 1 0 2 9 8 | 6

   b. Change to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
</table>

   Lect. | Lab | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code
   |-------|-----|-------------------|-------------|------------|-----------|
   

   Approval recommended by:

   Ricardo Gutierrez-Osuna
   Department Head or Program Chair (Type Name & Sign)
   Date

   C. Georgiades
   Department Head or Program Chair (Type Name & Sign)
   (if cross-listed course)

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services

   Chair, College Review Committee

   Chair, GCo or UCC

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions:
1. Request submitted by (Department or Program Name): Department of Computer Science and Engineering
2. Course prefix, number and complete title of course: CSCE 632, Expert Systems

Attach a brief supporting statement for changes made to items 3a thru 3d, and 6 below.

3. Change requested
   a. Prerequisite(s): From: __________________________ To: __________________________
   b. Withdrawal (reason): No longer being taught
   c. Cross-list with: __________________________
      Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked: __________________________

5. Complete current course title and current catalog course description:

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

7. a. As currently in course inventory:
   
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</table>

   Approval recommended by: __________________________
   Ricardo Gutierrez-Cuana
   Department Head or Program Chair (Type Name & Sign) Date
   (if cross-listed course)

   Submit to Coordinating Board by: __________________________
   Associate Director, Curricular Services

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
   Curricular Services - 02/11
Texas A&M University
Departmental Request for a Change in Course
Undergraduate + Graduate + Professional
Submit original form and attachments

Form Instructions:
1. Request submitted by (Department or Program Name): Department of Computer Science and Engineering
2. Course prefix, number and complete title of course: CSCE 651, Simulation I

Attach a brief supporting statement for changes made to items 3a thru 3d, and 6 below.

3. Change requested
   a. Prerequisite(s): From: ____________________________ To: ____________________________
   b. Withdrawal (reason): No longer being taught
   c. Cross-list with: Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked:

5. Complete current course title and current catalog course description:

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

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</tr>
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Approval recommended by: Ricardo Gutierrez-Osuna
Chair, College Review Committee
Department Head or Program Chair (Type Name & Sign) Date

Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Submitted to Coordinating Board by: Mark J. Zoran
Chair, GC or UCC
Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Texas A&M University

Departmental Request for a Change in Course

Undergraduate • Graduate • Professional

Submit original form and attachments.

Form Instructions

1. Request submitted by (Department or Program Name): Department of Computer Science and Engineering

2. Course prefix, number and complete title of course: CSCE 677, Switching Theory

3. Change requested
   a. Prerequisite(s): From: ____________ To: ____________
   b. Withdrawal (reason): No longer being taught
   c. Cross-list with: ECEN 652, Switching Theory

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

   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

4. For informational purposes only, please indicate course number if this course will be stacked: ____________

5. Complete current course title and current catalog course description:

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

7. a. As currently in course inventory:

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</table>

Approval recommended by:

Ricardo Gutierrez-Osuna
Department Head or Program Chair (Type Name & Sign) Date 7/11/2011

C. Georgiades
Department Head or Program Chair (Type Name & Sign) Date 7/28/2011

(if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Chair, College Review Committee Date 8-10-11

Chair, GC of DCC Date 9/1/2011

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.