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

Form Instructions
1. Course request type:
   - □ Undergraduate  ✔ Graduate  □ First Professional (CEVE, ECE, 25, Pharma, DVM)
2. Request submitted by (Department or Program Name):
   - Zachry Department of Civil Engineering
3. Course prefix, number and complete title of course:
   - CVEN 666 Foundation Structures
4. 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 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?
   - □ Yes  ✔ No
6. If grade type is changing for existing course, indicate the new grade type:
   - □ Grade  □ S/U  □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
   - □ CVEN 435
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control/basics-for-distance-education).
9. Complete current course title and current catalog course description:
   - Foundation Structures. (3-0). Geological and soil mechanics principles: load bearing capacity, soil pressure and settlement; design of shallow foundation sub-structures; pedestals, spread footings, combined footings, mat and underream footings; design of deep foundations: piles and drilled piers; retaining walls, cofferdams and sheet piles.
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words)

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
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   b. Change to:

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<td>6</td>
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</tbody>
</table>

   Approval recommended by:

   [Signature]
   13 July 2015

   Department Head or Program Chair (Type Name & Sign) Date
   Chair, College Review Committee Date
   Dean of College Date
   Chair, GC or UCC Date

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services Date
   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
TEXAS A&M UNIVERSITY
CVEN 666: GEOTECHNICAL ENGINEERING DESIGN
(FOUNDATION STRUCTURES, (3-0). Credit 3)
Fall 2015

Professor Jean-Louis Briaud
Tel: 979-845-3795 (Work) 979-777-1692 (Cell)
Email: briaud@tamu.edu Office: 709C, CE/TTI building
Office hours – Tuesday morning 9 am to 12 noon

Course Description: Geological and soil mechanics principles: load bearing capacity, soil pressure and settlement; design of shallow foundations substructures: pedestals, spread footings, combined footings, mats and underream footings; design of deep foundations; piles and drilled piers; retaining walls, cofferdams and sheet piles.

Prerequisite: CVEN 365 or equivalent

Lectures: Mondays and Wednesdays 10:20 to 11:10 am in Room 137 CE building.

Laboratory: Wednesdays 1:50 to 4:40 pm in Room 104 CE building


Learning outcomes – course objectives

- Know how to design a simple shallow foundation
- Know how to design a simple deep foundation
- Know how to calculate a slope stability factor of safety
- Know how to calculate earth pressures on a simple retaining wall

Lectures:
1. Review of Soil Properties (4Lec, 2 Labs)
   - Classification
   - Effective stress
   - Deformation (compression, shrink-swell)
   - Strength
   - Hydraulic conductivity
2. Shallow Foundations (6 Lec, 3 Lab)
   - Design approach
   - Bearing pressure (distribution, capacity)
   - Settlement (footings, mats, embankments)
3. Deep Foundations (8 Lec, 4 Lab)
   - Design approach
• Installation (drilled shaft, wave equation)
• Single pile capacity under vertical load (driven, bored)
• Pile group capacity under vertical load
• Settlement of deep foundations
• Single pile under horizontal load

4. Foundations on Shrink-Swell Soils (4 Lec, 2 Lab)
   • Design approach
   • Movement calculations
   • Slab-on-grade design
   • Pile design

5. Slope Stability (4 Lec, 2 Lab)
   • Design approach
   • Chart methods
   • Method of slices (Bishop modified)

6. Retaining Walls (4 Lec, 2 Lab)
   • Design approach
   • Earth pressure theories
   • Bottom up walls
   • Top down walls

Grading:

Mid Term Examination = 25%
Final Examination = 40%
Assignments = 25%
Project = 10%
Grading policy: A = 90-100, B = 80-90, C = 70-80, D = 60-70, F < 60

Special project: This project will be a semester long project where the student will demonstrate his or her ability to use the concepts learned in the course on a geotechnical engineering project. A consulting type of report will be submitted.

Attendance and make policy: Attendance at all laboratory sessions is required. Attendance at lectures will be monitored. Assignments must be submitted within the first five minutes of the laboratory session on the due date. Any late assignment will receive a grade of zero. Not turning in an assignment before the end of the course will result in a failing grade in the course. University excused absences will be accepted if the instructor is notified before the absence.

http://student-rules.tamu.edu/rule07

Laboratory: This is a design laboratory. There are no experiments associated with this laboratory period

The Foundation of the Tower of Pisa
The Foundation of the First International Plaza Tower in San Antonio
The Foundation of the New Orleans Hospital
American with Disabilities Act (ADA) Policy Statement
Disability Services offers accommodations coordination, evaluation referral, disability-related information, adaptive technology services, sign language interpreting and transcription services for academically related purposes. Although Disability Services does not offer disability evaluation and/or testing, tutoring, personal expenses, attendants or scholarships, Disability Services will provide resources and referral information.  
http://disability.tamu.edu/

Aggie code of honor
An Aggie does not lie, cheat or steal or tolerate those who do.  
http://student-rules.tamu.edu/aggiecode
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions

1. Course request type:
   □ Undergraduate  ☒ Graduate  □ First Professional
2. Request submitted by (Department or Program Name):
   Economics
3. Course prefix, number and complete title of course:
   ECON 630 Microeconomic Theory II
4. 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 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   □ Yes  ☒ No

6. If grade type is changing for existing course, indicate the new grade type:
   □ Grade  □ S/U  □ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   __________________________

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

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

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

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<td>0810</td>
<td>16 - 17 0 0 3 6 3 2</td>
</tr>
</tbody>
</table>

   Approval recommended by:

   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.
   Curricular Services – 08/14
Syllabus for ECON 630:
Microeconomic Theory II

Spring 2016

Instructor

Silvana Krasteva
Assistant Professor
Department of Economics
Office: ALLN 3106
Email: ssk8@tamu.edu
Tel: (979) 845-7347

Office hours:
Tuesday 10:00-11:00 am
Thursday 10:00-11:00 am

Time and Location

TBA
• Course Webpage: http://ecampus.tamu.edu/

Course Description

This course has the purpose of extending your knowledge of rational decision making. We will explore the advances treatment of consumer and production theory, static and dynamic game theory models of complete and incomplete information and study equilibrium concepts and refinements in each situations. We will apply the developed concepts in each case to study welfare analysis, market competition, bargaining games, auction theory, mechanism design in the context of auctions and signaling games.

Course Prerequisites

ECON 629 and ECMT 660.

Learning Outcomes
1. Define and develop analytical tools to study strategic environments.
2. Apply fundamental equilibrium concepts in strategic environments.
3. Articulate fundamental game theoretic models of competition widely used in Economics.

Course Material

Lecture notes will be posted on http://ecampus.tamu.edu/ prior to each lecture. In addition to the lecture notes, the following textbooks will be useful for you throughout the semester.

MIT Press
• Recommended Textbooks:

elementary treatment, good intro to game theory)- Abbr. (G)

available free of charge online http://theory.economics.utoronto.ca/books/)- Abbr. (OR-1)


(You can download it free of charge)- Abbr. (OR-2)

auction design. You can access electronic version of this book through TAMU library)- Abbr. (K)

Assignments

Assignments will be weekly assignments. Take these assignments seriously since they are the best means for you
to prepare for the exam as well as the qualifying exam. Working in a group is encouraged since you can
learn a lot from each other. However, each student must turn in their own assignment. Note that no late
assignment will be accepted for a reason that does not comply with the University regulations. Please
notify me in writing (an email is accepted) if you anticipate you will miss any of the deadlines associated
with this course for a reason that conforms to the University Regulations. If notification in advance is not
possible, then provide notice by the end of the second working day after the absence. (See regulations
at: http://studentrules.tamu.edu/rule07.)

Grading

Your grade will be based upon 2 exams and weekly assignments. The grade distribution is as follows:

<p>| | | | |</p>
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<tr>
<td>Assignments</td>
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<tr>
<td>Exam II</td>
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The course grade will be awarded according to the following table:

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<th>% Earned</th>
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<th>[45,64]</th>
<th>[30,44]</th>
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<tr>
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<td>A</td>
<td>B</td>
<td>C</td>
<td>D</td>
<td>F</td>
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Americans with Disabilities Act (ADA) Policy Statement

If you need special assistance, please let me know during the first week of classes, so that the required
accommodations can be provided. The American with Disabilities Act (ADA) is a federal antidiscrimination
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. If you have a disability requiring accommodation, please contact the Office
Of Support services for Students with Disabilities in Cain Hall, Room B118 or call 845-1637. For additional information visit http://disability.tamu.edu.

Academic Integrity Statement and Policy

"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/aggiehonor/.

Academic dishonesty will not be tolerated. Representing someone else's work as their own or cheating in any other manner will be pursued with disciplinary action and will result in an "F" grade for the class.

Tentative Course Schedule

Below is a tentative class schedule (subject to some changes) that will help you prepare for the class.

<table>
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<tr>
<th>Date</th>
<th>Topic</th>
<th>Reference</th>
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<tbody>
<tr>
<td>Jan. 20</td>
<td>Strategic Games: Introduction</td>
<td>G(Ch. 1) M(Ch. 7, 8) F(Ch. 1, 2) OR-1 (Ch. 1) T (Ch. 5)</td>
</tr>
<tr>
<td>Jan. 22-27</td>
<td>Static Games of Complete Information</td>
<td>G(Ch. 1) M(Ch. 7, 8) F(Ch. 1, 2) OR-1 (Ch. 1, 2, 3) T (Ch. 5)</td>
</tr>
<tr>
<td>Feb. 29-3</td>
<td>Static Models of Imperfect Market Competition</td>
<td>M (Ch. 12C), T (Ch. 6)</td>
</tr>
<tr>
<td>Feb. 5-10</td>
<td>Dynamic Games of Complete Information</td>
<td>G (Ch. 2) M (Ch. 9) F (Ch. 3), OR-1(Ch. 6)</td>
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<tr>
<td>Feb. 10-12</td>
<td>Dynamic Models of Imperfect Market Competition</td>
<td>M (Ch. 12E,12F)</td>
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<tr>
<td>Feb. 17-19</td>
<td>Application: Ultimatum Game, War of Attrition, Bargaining</td>
<td>F (Ch. 4). OR-1(Ch. 7) OR-2 (Ch. 3)</td>
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<td>Feb. 24-26</td>
<td>Agency and Moral Hazard</td>
<td>M (Ch. 14B)</td>
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<td>Mar. 3-5</td>
<td>Repeated Games and the Folk Theorem</td>
<td>G (Ch. 2) F (Ch. 5) OR-1(Ch. 8)</td>
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<tr>
<td>Mar. 12</td>
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<tr>
<td>Mar. 24-26</td>
<td>Static Games of Incomplete Information</td>
<td>G (Ch. 3), F (Ch. 6)</td>
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<td>Mar. 31-Apr 2</td>
<td>Mechanism Design and Monopolistic Screening</td>
<td>M (Ch. 14C, 23B), F (Ch. 7)</td>
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<td>Apr. 7-14</td>
<td>Auctions</td>
<td>F (Ch. 7) (Ch. 2,3,4,5)</td>
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<td>Apr. 16-23</td>
<td>Dynamic Games of Incomplete Information</td>
<td>G (Ch. 4), F (Ch. 8), OR-1 (Ch.11,12)</td>
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<td>April 23-30</td>
<td>Adverse selection and signaling</td>
<td>M (Ch. 13)</td>
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<td>Exam</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. Course request type:
   - [ ] Undergraduate
   - [ ] Graduate
   - [ ] First Professional

2. Request submitted by (Department or Program Name):
   Department of Hispanic Studies
   HISP 602 Spanish Applied Linguistics

3. Course prefix, number and complete title of course:
   HISP 602 Spanish Applied Linguistics

4. Change requested
   - [ ] Prerequisite(s): From:
   - [ ] To:
   - [ ] Withdrawal (reason):
   - [ ] Cross-list with:

5. Change in course title and description. Enter complete current course title and current course description in item 10. Complete item 11a and b for a change in title.

6. Is this an existing core curriculum course?
   - [ ] Yes
   - [ ] No

7. If course type is changing for existing course, indicate the new course type:
   - [ ] Grade
   - [ ] S/U
   - [ ] P/F (CLMD)

8. If this course will be stacked, please indicate the course number of the stacked course:
   - [ ] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vp.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

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

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

11. a. As currently in course inventory:

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<tbody>
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<td>Spanish Applied Linguistics</td>
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<th>Admin. Unit</th>
<th>Acad. Year</th>
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Approval recommended by:
Maria Irene Moyna

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

Chair, College Review Committee

Dean of College

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 – 08/14
Attachment to Departmental Request for Change in Course (HISP 602)

Justification:

Since our graduate reform, approved in 2014, all our graduate courses have had the same prerequisites (graduate classification). HISP 602 was not updated at the time. This change in course corrects that error.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

Submit original form and attachments

1. Course request type:
   ☑ Undergraduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
   ☑ Graduate

2. Request submitted by (Department or Program Name):
   Psychology

3. Course prefix, number and complete title of course:
   PSYC 684 Professional Internship

4. 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 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

5. Is this an existing core curriculum course?
   ☐ Yes ☑ No

6. If grade type is changing for existing course, indicate the new grade type:
   ☑ Grade ☐ S/U ☐ P/F (CLMD)

7. If this course will be stacked, please indicate the course number of the stacked course:
   ☐ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

8. Complete current course title and current catalog course description:
   PSYC 684 Professional Internship
   Credits 1 to 12. 1 to 12 Other Hours.
   Full-time clinical experience in a departmentally-approved internship training facility. Limited to advanced doctoral students specializing in clinical psychology. May be taken up to 12 hours total.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   PSYC 684 Professional Internship
   Credits 0 to 12. 0 to 12 Other Hours.
   Full-time clinical experience in a departmentally-approved internship training facility. Limited to advanced doctoral students specializing in clinical psychology. May be taken up to 12 hours total.

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   Lab | Other | SCH | CIP and Fund Code | Admin. Unit | HFL Code | Level |
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   Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | HFL Code | Level |
   0.00 | 0.00 | 12.00 | 12.00 | 4228010001 | 2380 | 16 | - | 17 | 0 | 3 | 6 | 3 | 2 | 6 |

   Approval recommended by:

   Doug Woods, Ph.D.
   Department Head or Program Chair (Type Name & Sign) Date 7/23/15
   Chair, College Review Committee Date
   Dean of College Date 8-5-15
   Chair, GC or UCC Date 9-3-15

   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 – 08/14
August 5, 2015

MEMORANDUM

TO:         Mark Zoran, Chair
            Graduate Council

FROM:       Patricia A. Hurley, Associate Dean

SUBJECT:    Request to Include Zero Credit Hours to Existing Course PSYC 684

The College of Liberal Arts requests the following existing course be changed to include a zero credit hour option effective Spring 2016, or as soon as possible thereafter. No other changes are being made to the courses.

<table>
<thead>
<tr>
<th>Department Name</th>
<th>Course Number/Title</th>
<th>Existing Credit Hours</th>
<th>Proposed Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Psychology</td>
<td>PSYC 684 Professional</td>
<td>Credit 1 to 12</td>
<td>Credit 0 to 12</td>
</tr>
<tr>
<td></td>
<td>Internship</td>
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<td></td>
</tr>
</tbody>
</table>
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: □ Undergraduate □ Graduate □ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Soil and Crop Sciences
3. Course prefix, number and complete title of course: SCSC 626, Soil Mineralogy
4. 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 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course?
   □ Yes □ No
6. If grade type is changing for existing course, indicate the new grade type:
   □ Grade □ S/U □ P/F (CLM)
7. If this course will be stacked, please indicate the course number of the stacked course: __________________________ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
   Soil Mineralogy. (3-4). Credit 5. Crystal structures and properties of important minerals in soils and sediments especially clay minerals and oxides combined with identification techniques involving theory and practice with x-ray diffraction, electron microscopy, infrared and chemical methods. 5.000 Credit hours; 3.000 Lecture hours; 4.000 Lab hours
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Soil Mineralogy. (3). Credit 3. Crystal structures and properties of important minerals in soils and sediments especially clay minerals and oxides. Applications of the minerals in agriculture, engineering, industry, environment, toxicology, and geology. 3.000 Credit hours; 3.000 Lecture hours

11. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
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<tbody>
<tr>
<td>SCSC</td>
<td>626</td>
<td>Soil Mineralogy</td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>Other SCH</td>
</tr>
<tr>
<td>3.00</td>
<td>2.00</td>
<td>5.00</td>
</tr>
<tr>
<td>CIP and Fund Code</td>
<td>Admin. Unit</td>
<td>FICE Code</td>
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<tr>
<td>01.1201.00</td>
<td>2620</td>
<td>0 0 3 6 3 2 6</td>
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</table>

b. Change to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCSC</td>
<td>626</td>
<td>Soil Mineralogy</td>
</tr>
<tr>
<td>Lect.</td>
<td>Lab</td>
<td>Other</td>
</tr>
<tr>
<td>3.00</td>
<td>0.00</td>
<td>0.00</td>
</tr>
<tr>
<td>CIP and Fund Code</td>
<td>Admin. Unit</td>
<td>Acad. Year</td>
</tr>
<tr>
<td>01.1201.00</td>
<td>2620</td>
<td>16 - 17</td>
</tr>
</tbody>
</table>

Approval recommended by: Wayne Smith 8-1-15
Department Head or Program Chair (Type Name & Sign) Date
Chair, College Review Committee 8/19/15
Dean of College 8/19/15
Chair, Graduate Council 9-3-15
Submitted to Coordinating Board by: 
Associate Director, Curricular Services
Date Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 8/14
SCSC 626-600: Soil Mineralogy

Fall 2015

Course Title: Soil Mineralogy
Lecture: 11:10 am–12:25 pm, Tuesday and Thursday; 124 Heep Center
Credit Hours: 3
Instructors: Youjun Deng
Office: 541B, Heep Center; Phone: (979)-862-8476
e-mail: yjd@tamu.edu. Office hour: 2-4 pm, Wednesday.
Teaching Assistants: Chun-Chun Hsu and Sabrina Alam
e-mail: chunchunhsu@tamu.edu, ssalam@tamu.edu
Class Web Site: http://youjundeng.tamu.edu/scsc626/index.htm
Prerequisite: General chemistry, introductory organic chemistry, or permission from instructor
Textbook: Soil Mineralogy with Environmental Applications. Edited by Dixon, J. B. and Schulze, D. G.

Course Description

Lectures: This course presents the fundamental concepts of soil and clay mineralogy that are important to agriculture, environment, geology, toxicology, and engineering applications and problems. The lectures are devoted to introduction of crystal structures of major minerals, mineral formation conditions, mineral surface properties, and reactions of minerals with heavy metals, nutrients, organics, and biologic molecules; and the importance of minerals in natural environments as well as their domestic, industrial, and environmental applications.

Field Trips: On two half-day local field trips: 1) Easterwood airport area and 2) Somerville lake spillway, we will illustrate the core sets of 20 minerals (silicates, sulfides, sulfates, carbonates, and oxides) and a soil profile to establish vivid concepts of each mineral in the natural environments of soils or sediments. We will discuss their occurrence, transformation, and effects on the environment. These are excellent opportunities for you to use your soil mineralogy knowledge to explain the geochemical processes and to solve environmental problems in the real world.

Learning Outcomes

At the end of the semester, I expect that you

• be able to apply the principles learned in the class to solve mineralogy-related problems or to develop applications in environmental, agricultural, engineering, and geological areas;
• understand the principles of common soil mineral analysis methods and instruments;
• be able to design mineralogy experiments that are tailored to your specific research objectives;
Grading

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams I &amp; II</td>
<td>40% total (20% each)</td>
</tr>
<tr>
<td>Exam III (final)</td>
<td>30%</td>
</tr>
<tr>
<td>Problem Sets</td>
<td>30% (4 homework assignments, and 2 field trip reports)</td>
</tr>
</tbody>
</table>

A: ≥90%; B: 80-89%; C: 70-79%; D: 60-69%; F: <60%.
Late turn-in of assignments: 10% deduction of full points a day.

Attendance and Make-up Policies

Even though class lecture notes and videos will be posted on class web site, regular attendance in the class is expected. Attending the lectures enables you to gain proper context, to participate in discussion and demonstrations, to feel and to study mineral specimens and models. If an absence is excused, the instructor will provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence.

For students taking the class remotely and cannot attend the lectures regularly in person, the instructor and the students need to work out an alternative plan (e.g., appointments to study mineral specimens and models) for the students to complete all of the required class work.

The student is responsible for providing satisfactory evidence to the instructor to substantiate the reason for the absence. Among the reasons absences are considered excused by the university are the following (see Student Rule 7 for details http://studentrules.tamu.edu/rule07). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1. Participation in an activity that is required for a class and appears on the university authorized activity list at https://studentactivities.tamu.edu/app/sponsauth/index
2. Death or major illness in a student's immediate family.
3. Illness of a dependent family member.
4. Participation in legal proceedings or administrative procedures that require a student’s presence.
5. Religious holy day. NOTE: Prior notification is NOT required.
6. Injury or illness that is too severe or contagious for the student to attend class.
   a. Injury or illness of three or more class days: Student will provide a medical confirmation note from his or her medical provider within one week of the last date of the absence (see Student Rules 7.1.6.1)
   b. Injury or illness of less than three class days: Student will provide one or both of these (at instructors discretion), within one week of the last date of the absence:
      i. Texas A&M University Explanatory Statement for Absence from Class form available at http://attendance.tamu.edu
      ii. Confirmation of visit to a health care professional affirming date and time of visit.
   c. An absence for a non-acute medical service does not constitute an excused absence.
7. Required participation in military duties.
8. Mandatory admission interviews for professional or graduate school that cannot be rescheduled.
9. Mandatory participation as a student-athlete in NCAA-sanctioned competition.

10. In accordance with Title IX of the Educational Amendments of 1972, Texas A&M University shall treat pregnancy (childbirth, false pregnancy, termination of pregnancy and recovery therefrom) and related conditions as a justification for an excused absence for so long a period of time as is deemed medically necessary by the student's physician. Requests for excused absence related to pregnancy should be directed to the instructor.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation.

In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

Accommodations sought for absences due to the observance of a religious holiday can be sought either prior or after the absence, but not later than two working days after the absence.

**ADA Policy Statement**

The Americans with Disabilities Act (ADA) is a federal antidiscrimination 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 Room 126 of the Koldus Building, or call 845-1637.

*An Aggie does not lie, cheat, or steal or tolerate those who do.*
Table 1. Tentative schedule—Fall 2015.

<table>
<thead>
<tr>
<th>Date</th>
<th>SCSC626 Lecture/Reading</th>
<th>SCSC628 Lab exercises/Homework Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>09/01</td>
<td>Ch.1 Introduction to soil min.</td>
<td>Identify min. using XRD</td>
</tr>
<tr>
<td>09/03</td>
<td>Ch.1 Introduction to soil min.</td>
<td>Sample evaluation (XRD, ATR, NIR-DRIFT)</td>
</tr>
<tr>
<td>09/08</td>
<td>Ch.1 Introduction to soil min.</td>
<td>Sample pretreatment, cementing compounds</td>
</tr>
<tr>
<td></td>
<td>Ch.2 Surface chem. of soil min.</td>
<td></td>
</tr>
<tr>
<td>09/10</td>
<td>Ch.2 Surface chem. of soil min.</td>
<td>Size fractionation, HW1 Due.</td>
</tr>
<tr>
<td>09/15</td>
<td>Ch.4 Min. equilibria</td>
<td>Size fractionation</td>
</tr>
<tr>
<td>09/17</td>
<td>Ch.4 Min. equilibria</td>
<td>Dialysis/drying</td>
</tr>
<tr>
<td>09/22</td>
<td>Ch.5 Methods for mineralogy</td>
<td>Mg-, K-saturation of clay (for XRD) (HW 2 due)</td>
</tr>
<tr>
<td>09/24</td>
<td>Ch.6 Carbonates &amp; evaporates</td>
<td>Field trip 1 (Eastwood airport area)</td>
</tr>
<tr>
<td>09/29</td>
<td>Ch.7 Sulfides &amp; sulfates</td>
<td>Iron oxides (DCB) (Lab Report I due)</td>
</tr>
<tr>
<td>10/01</td>
<td>Exam I</td>
<td>Iron oxides (DCB)</td>
</tr>
<tr>
<td>10/06</td>
<td>Ch.8 Aluminum hydroxides</td>
<td>FTIR (Clay) Field trip 1 report due</td>
</tr>
<tr>
<td>10/08</td>
<td>Ch.9 Allophane &amp; imogolite</td>
<td>Clay XRD and FTIR interpretation</td>
</tr>
<tr>
<td>10/13</td>
<td>Ch.10 Iron oxides</td>
<td>CEC/ SEM (HW3 due)</td>
</tr>
<tr>
<td>10/15</td>
<td>Ch.11 Manganese oxides</td>
<td>CEC/SEM (Lab Report II due)</td>
</tr>
<tr>
<td>10/20</td>
<td>Ch.12 Kaolin-serpentine mins.</td>
<td>TEM</td>
</tr>
<tr>
<td>10/22</td>
<td>Ch.13 Pyrophyllite-talc mins.</td>
<td>TEM</td>
</tr>
<tr>
<td>10/27</td>
<td>Ch.14 Micas</td>
<td>TEM(HW4 due)</td>
</tr>
<tr>
<td>10/29</td>
<td>Ch.15 Smectites</td>
<td>Total K</td>
</tr>
<tr>
<td></td>
<td>Ch.16 Vermiculites,</td>
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</tr>
<tr>
<td>11/03</td>
<td>Exam II</td>
<td>Field trip 2 (Somerville Lake spillway)</td>
</tr>
<tr>
<td>11/05</td>
<td>Ch.17 Chlorites</td>
<td>Total K/SEM interpretation help</td>
</tr>
<tr>
<td></td>
<td>Ch.18 Palgorskite &amp; sepiolite</td>
<td></td>
</tr>
<tr>
<td>11/10</td>
<td>Ch.19 Zeolites</td>
<td>TEM data interpretation help</td>
</tr>
<tr>
<td>11/12</td>
<td>Ch.20 Silica mins.</td>
<td>NEWMOD (Lab Report III due)</td>
</tr>
<tr>
<td>11/17</td>
<td>Feldspars</td>
<td>Data integration, Field trip 2 report due</td>
</tr>
<tr>
<td>11/19</td>
<td>Ch.21 Phosphate mins.</td>
<td>Data integration,</td>
</tr>
<tr>
<td>11/24</td>
<td>Ch.22 Ti &amp; Zr mins.</td>
<td>Individual helps</td>
</tr>
<tr>
<td>11/26</td>
<td>Thanksgiving, No class</td>
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</tr>
<tr>
<td>12/01</td>
<td>Ch.3 SOM &amp; organic-min.</td>
<td>Final lab report due</td>
</tr>
<tr>
<td>12/03</td>
<td>Ch.26 Pesticides/mins.</td>
<td>Oral presentation</td>
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<tr>
<td>12/08</td>
<td>Review, Q/A.</td>
<td>Lab Exam</td>
</tr>
<tr>
<td>12/10</td>
<td>Reading day, No class</td>
<td></td>
</tr>
<tr>
<td>12/11</td>
<td>Final Exam: 3-5 pm</td>
<td></td>
</tr>
</tbody>
</table>

Lab reports:
- Report 1: Sample evaluation, bulk sample XRD, and texture
- Report 2: XRD, FTIR (clay and bulk sample), mineral identification.
- Report 3: Iron oxide, CEC, SEM data
- Final report: Revised contents in reports 1, 2, and 3; TEM, total K, NEWMOD, data integration.