## Change in Course Requests

### Title Change

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Old Title</th>
<th>New Title</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>C626 BUSH 624</strong></td>
<td>International Economic Development</td>
<td>Fundamentals of Global Economic Development</td>
</tr>
<tr>
<td><strong>C622 STAT 608</strong></td>
<td>Least Squares and Regression Analysis</td>
<td>Regression Analysis</td>
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<tr>
<td><strong>C624 STAT 611</strong></td>
<td>Theory of Statistics II</td>
<td>Theory of Statistics – Inference</td>
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<tr>
<td><strong>C625 STAT 613</strong></td>
<td>Intermediate Theory of Statistics</td>
<td>Advanced Theory of Statistical Inference</td>
</tr>
<tr>
<td><strong>C628 STAT 614</strong></td>
<td>Probability for Statistics</td>
<td>Statistical Applications in Probability</td>
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</table>
Title Change, Description Change

C627 BUSH 655 The Structure & Policy of the European Union

FROM: The Structure & Policy of the European Union
STRCTR PLCY EUROPE

TO: EVL EUROPEAN UNION
Evolution of the European Union

FROM: This course provides an intro into the structure of the existing European Union, its creation and history, its current policy, and the perspectives of its future enlargement. Students will achieve a working knowledge of EU matters with its
regional and global political and economic aspects and with particular emphasis on trans-Atlantic relations with the U.S.

TO: Explore the wider implications of EU enlargement and integration, critically assess current EU developments and policies pertinent to international affairs, generate and apply a variety of individual and team oriented skills on real-world problems.

C621 MGMT 660 Strategic and Global Human Resource Management

FROM: Strategic and Global Human Resource Management
STRAT & GLOBAL HRM

TO: Global Human Resource Management
GLOBAL HRM

FROM: This course will discuss the link between HRM and organizational strategy, and the importance of HRM in enhancing firm performance. Emphasis will be given to strategic HRM in employee relations, performance management, and reward systems. The course will also address issues and choices facing HR managers confronting multinational enterprises.

TO: This course will examine HRM in a global context. Emphasis will be given to global HR functions such as international staffing, training, and compensation. The course will focus on global HRM trends and challenges and will also address issues and choices HR managers face in multinational enterprises.

Title, Description Change, Prequisite Change, and Cross Listing

C620 POSC 625 Least-Cost Feed Formulation

FROM: Least-Cost Feed Formulation
LEAST-COST FEED FORM

TO: Precision Diet Formula
PRECISION DIET FORMULA

FROM: Theoretical and applied principles associated with least-cost feed formulation, ingredient inventory, farm and feed mill management; computer optimization of resources for most efficient least-cost production with applications to all domestic farm animals; applications of micro-computer technology.

TO: Theoretical and applied principles associated with precision feeding and diet formulation to optimize nutrient requirements; optimization using least-cost formulation, ingredient inventory, farm and feed mill management, and nutrient management of non-ruminants (poultry, swine, horse, and fish) and ruminant animals (beef and dairy.)

FROM: POSC 411, ANSC 309

TO: POSC 411 or ANSC 318

FROM: No Cross Listing

TO: ANSC 623
Texas A&M University

Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

Submit original form and 2 copies.

1. This request is submitted by the Department of ________

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

   BUSH 624
   International Economic Development

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

4. Complete current course title and current course description: BUSH 624 International Economic Development
   This course surveys the economies of developing countries, which constitute most of the world and share some
   commonalities. The course will identify the problems that developing countries face and focus on the policies that governments have pursued.

5. Complete proposed course title and proposed course description (not to exceed 50 words):
   Fundamentals of Global Economic Development

6. a) As currently in course inventory:

   Prefix | Course # | Title (exclude punctuation)
   -------|----------|---------------------------
   BUSH 624 | INTL ECON DEVELOP MT |___________________________ |
   Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | FICE Code |
   03 00 03 | | | | |

   b) Changed to:

   Prefix | Course # | Title (exclude punctuation)
   -------|----------|---------------------------
   BUSH 624 | ECON GLBL ECON DEVELOP MT |___________________________ |
   Lect. | Lab | SCH | Subject Matter Content Code | Admin. Unit | Acad. Year | FICE Code |
   03 00 03 | | | | | 0 0 3 6 3 2 |

   Approval recommended by:
   ____________________________
   Head of Department
   ____________________________
   Date

   Chair, College Review Committee
   ____________________________
   ____________________________
   Dean of College
   ____________________________
   ____________________________
   Date
   ____________________________
   Date

   Submitted to Coordinating Board by:
   ____________________________
   ____________________________
   ____________________________
   ____________________________
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   Director of Academic Support Services
   ____________________________
   ____________________________
   ____________________________
   ____________________________
   ____________________________
   Date
   Effective Date

* Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/oaras. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and 2 copies •

1. This request is submitted by the Department of [Bush School]

2. Course prefix, number and complete title of course: BUSH 624 International Economic Development

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

4. Complete current course title and current course description: BUSH 624 International Economic Development
This course surveys the economics of developing countries which constitute most of the world and share some commonalities. The course will identify the problems that developing countries face and focus on the policies that governments have pursued.

5. Complete proposed course title and proposed course description (not to exceed 50 words): Fundamentals of Global Economic Development - Name change only

6. a) As currently in course inventory:

<table>
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<tr>
<th>Prefix</th>
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<td>BUSH</td>
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<td>FNDTLS GLBL ECO DEVELOPMENT</td>
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Approval recommended by:

Head of Department ___________________________ Date ___________________________

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

Submitted to Coordinating Board by:

Dean of College ___________________________ Date ___________________________

Director of Academic Support Services ___________________________ Date ___________________________

Effective Date ___________________________

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
This course surveys the economics of development. We focus on developing countries which constitute most of the world and share some commonalities. We identify the problems that developing countries face and focus on the policies that governments have pursued. Since the nature of economic development is complex, it would be impossible to address all issues. We focus selectively on some issues.

The course will be conducted as a lecture with discussions and plenty of applications to real world issues.

Prerequisites: You will need good writing skills in order to write reports and home-works. Since this is an advanced economics course, you will be expected to know micro-economics and macro-economics from your introductory courses. Also, you must have had basic calculus and statistics which will be used at times in the course.

COURSE GRADE

There will be two exams, four home-works, and a presentation.

Exams: 2x25 = 50 %
Home-works (including a report): 4x10 = 40 %
Presentation: 1x10 = 10 %

There is no curve in this class. The grade breakdown is standard.
OTHER POLICIES

1. MAKE-UPS

I will provide no make-ups in this class. If you happen to miss an exam, then you MUST provide me with a doctor's notice or if job related, a letter from work. Conditional upon receipt of this letter, the next exam will then count double.

2. READINGS

You are responsible for reading the applications as announced in class BEFORE that particular class date. You are responsible for reading the material in the textbook sometime before the relevant quiz date. In order to avoid redundancy, I will not go over all the material in the textbook in class.

3. HOME-WORKS

Uncollected All relevant multiple choice, true/false, and completions based on chapter readings.

Collected Due at the beginning of class on the due date. You are encouraged to work together but final output must be individual.

4. CLASS PARTICIPATION and TARDINESS

Since much of the class learning involves students, class participation is taken very seriously. Active class participation is encouraged by adding extra points to your grade at the end of the course. The most active students will gain up to a 1/3 of a grade increase may be earned in this manner. Students who are not very active in class will not obtain the benefits of this system. If you happen to miss a class, please be responsible for what was covered before the next lecture and obtain all materials passed out from other students.

Deductions in class participation will be applied if it intervenes in the learning of other students: tardiness (see below), sleeping in class, excessive non-class related talking during lectures, and not prepared for class discussions.

Plagiarism: Students who engage in plagiarism and other forms of academic dishonesty are subject to disciplinary penalties, including the possibility of course failure and even dismissal from the university. Please consult the latest issue of the Texas A&M Student Rules, especially the section on “Scholastic Dishonesty.” We will discuss formatting for written assignments in seminar. If you have any questions about attributing credit as part of written or oral assignments, err on the side of caution and use footnotes or detailed endnotes to cite the source of facts and ideas taken from other sources.

Americans with Disability Act (ADA): 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 for their disabilities. If you believe you have a disability requiring accommodation, please contact the Department of Student Life, Services for Students with Disabilities, in Room 126, Koldus Building (phone 845-1637).

5. TEXT

<table>
<thead>
<tr>
<th>Week</th>
<th>Topics</th>
<th>Reading</th>
<th>Applications*</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1. Introduction</td>
<td>1. Introduction</td>
<td>Are the poor different?</td>
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<td>How a byte</td>
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<td>2</td>
<td>2. Growth</td>
<td>2. Growth</td>
<td>Pyramid of Power</td>
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<td>Measuring Growth</td>
<td>29-35</td>
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<td>Stylized Facts on Growth</td>
<td>35-38</td>
<td>Nigeria: 649 vs. Indonesia: 650-651</td>
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<td>Growth Theory Structure</td>
<td>39-43</td>
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<td>3</td>
<td>Harrod-Domar Model</td>
<td>43-51</td>
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<td>Solow Model</td>
<td>52-64</td>
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<td>Testing Convergence</td>
<td>64-71; How to read a</td>
<td>Explaining:72-73</td>
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<td>Growth Accounting</td>
<td>71-78</td>
<td>Miracle of Sausage</td>
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<td>4</td>
<td>New Growth: Lucas &amp; Romer</td>
<td>78-80; Endogenous</td>
<td>Educational Policy: 340-341; Leapfrogged</td>
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<td>Technological Change</td>
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<td>3. Structural Change/Dualism</td>
<td>83-87</td>
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<td>Lewis Model</td>
<td>Basu: The Structure of</td>
<td>Labor Surplus:95-96, 98; Township and</td>
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<td>a Dual Economy</td>
<td>village: 674-675</td>
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<td>6</td>
<td>Fei-Ranis</td>
<td>3. Structural Change,</td>
<td>Dazzled by prosperity</td>
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<td>Employment Policy</td>
<td>88-99</td>
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<td>Alt. Theories of Growth</td>
<td>Ray: History, etc</td>
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<td>-Complementarities</td>
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<td>Heavy Industry in Ray: 142-143</td>
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<td>-Linkages</td>
<td>99-103</td>
<td>Malaysia 636; Ghana 640</td>
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<td>Marxism, etc</td>
<td>Pomfret: Radical</td>
<td>Tanzania and Cuba in Pomfret</td>
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<td>Critique</td>
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<td>Human Welfare: 115-118</td>
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<td>Inequality</td>
<td>118-123</td>
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<td>Poverty</td>
<td>123-129</td>
<td>Democracies slower</td>
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<td>Case Studies &amp; Policy</td>
<td>129-148</td>
<td>Korea, etc.: 134-137</td>
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<td>Is Growth Enough?</td>
<td>Growth is Good for the</td>
<td>Empowerment leads to</td>
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*Applications with page numbers in text. Applications without page numbers in packet handed out in class.
### COURSE OUTLINE II

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<tr>
<th>Week</th>
<th>Topics</th>
<th>Reading</th>
<th>Applications</th>
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<td>Report Review, etc.</td>
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<td>Is Growth Enough?</td>
<td>Growth is Good for the Poor</td>
<td>Democracies slower*</td>
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<td>Reduce Inequality*</td>
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<td>Tragedy of the Commons</td>
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<td>Taxation</td>
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<td>11</td>
<td>The Coase Theorem</td>
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<td>Poor Nations bear heat</td>
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<td>Marketable Permits</td>
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<td>Microfinance 1</td>
<td>Besley: How do Market Failures</td>
<td>Small Picture Approach</td>
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<td>Microfinance 2</td>
<td>Morduch: The Microfinance Promise</td>
<td>Mexico Lender's Big Idea</td>
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<td>Banks see big future</td>
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<td>Microfinance 3</td>
<td>Ghatak-Guinnane: Economics of Lending with Joint Liability</td>
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*In Readings I packet
Texas A&M University

Artmental Request for a Change in Course
Undergraduate • Graduate • Professional

• Submit original form and 2 copies •

1. This request is submitted by the Department of STATISTICS

2. Course prefix, number and complete title of course: STAT 608: Least Squares and Regression Analysis

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

4. Complete current course title and current course description: We are proposing to only change the name not the course description.

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

   STAT 608: Regression Analysis

6. a) As currently in course inventory:

<table>
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<th>Prefix</th>
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<tr>
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<td>LST SQ &amp; REGRESSION ANALYSIS</td>
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Approval recommended by:

Head of Department Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Dean of College Date

Director of Academic Support Services Date Effective Date

* Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/leads. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
STAT 408 - Introduction to Linear Models / STAT 608 - Least Squares and Regression Analysis

Spring 2006

Instructor: Dr. Simon Sheather
Blocker 427A, 979-845-3141, sheather@stat.tamu.edu

Time and Place: Tuesday & Thursday 2:20 pm -3:35 pm in Blocker Room 457

Office Hours: Tuesday & Thursday 4 pm -5 pm or by appointment
For an appointment please contact my assistant, Jennifer Reyes on 845-3191 or jennifer@stat.tamu.edu

Grader: Hyejin Shin (Blocker 405E) Office Hours: Monday & Wednesday 3-6pm

Prerequisites: STAT 408 - MATH 304; STAT 212. STAT 608 - STAT 601 or 641


Case Study: Store24 (Harvard Business School Case Study 9-103-058) by Susan Kulp, V.G. Narayanan, Dennis Campbell

Computing: Data sets will be analyzed using the R software package, which is available free at http://www.r-project.org/. A primer for R which shows how to use R to do the computations discussed in the textbook and the R-package alr3 are available at http://www.stat.umn.edu/alr/R.html.

Topics:
1. Introduction and Overview (Weisberg, Chapter 1)
2. Simple linear regression (Weisberg, Chapter 2)
3. Diagnostics and transformations for simple linear regression (Weisberg Chapters 7, 8 & 9)
4. Weighted least squares (Weisberg, Chapter 5)
5. Multiple linear regression (Weisberg, Chapters 3, 4, 6)
6. Diagnostics and transformations for multiple linear regression (Weisberg Chapters 7, 8 & 9)
7. Variable selection (Weisberg, Chapter 10)
8. Logistic regression (Weisberg, Chapter 12)
9. Special topics

Grades:
Homework 30%
Midterm Exam 30%
Final Exam 40%

Exams: There will be closed book Midterm Exam and a comprehensive closed book Final Exam. Both exams for STAT408 and STAT608 will contain some common questions and some distinct questions. One 8.5" x 11" page of notes is allowed for the midterm and two such pages are allowed for the final. The final will be on Wednesday, May 10 from 1pm to 3pm.
Make-up: Make-up of missed exams will be allowed only in the case of a University excused absence. If at all possible, the instructor is to be notified of the absence prior to the completion of the scheduled exam. If necessary, a make-up exam will be given in the last week of the semester and may be comprehensive.

Homework: Homework will be regularly assigned and collected. Hyejin Shin will be first grader of all homework assignments. In addition, I will review all homework assignments. Please adequately explain your reasoning when answering homework problems. You may discuss the homework problems with other students, but you should write up your solutions independently. Do not copy other students' solutions as plagiarism is a serious example of academic misconduct. (For details, see http://www.tamu.edu/aggiehonor/acadmisconduct.htm.)

- ADA, Plagiarism, and Academic Integrity Statement:

TAMU STATEMENT ON DISABILITIES: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Support Services for Students with Disabilities in Room 126 of the Koldus Student Services Building. The phone number is 845-1637.

TAMU STATEMENT ON PLAGIARISM: The handouts used in this course are copyrighted. By "handouts," I mean all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission. As commonly defined, plagiarism consists of passing off as one's own ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section "Scholastic Dishonesty."

ACADEMIC INTEGRITY STATEMENT: "An Aggie does not lie, cheat, or steal or tolerate those who do." For further information on academic integrity, see Honor Council Rules and Procedures at www.tamu.edu/aggiehonor.

INCOMPLETE GRADE: A temporary grade of I (Incomplete) at the end of a semester indicates that the student has completed the course with the exception of a major quiz, final exam, or other work. The instructor shall give this grade only when the deficiency is due to an authorized absence or other cause beyond the control of the student.
Texas A&M University
Artamental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and 2 copies

1. This request is submitted by the Department of STATISTICS

2. Course prefix, number and complete title of course: STAT 610: Theory of Statistics I

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

4. Complete current course title and current course description: We are proposing to only change the name not the course description.

5. Complete proposed course title and proposed course description (not to exceed 50 words):
   STAT 610: Theory of Statistics - Distribution Theory

6. a) As currently in course inventory:

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   Lect. Lab SCH Subject Matter Content Code Admin. Unit FICE Code

   Do not complete shaded area.

   Level

   b) Changed to:

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<tr>
<td>STAT</td>
<td>610</td>
<td>DISTRIBUTION THEORY</td>
</tr>
</tbody>
</table>

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

   0 3 0 0 0 3               0 0 3 6 3 2

   Approval recommended by:

   Head of Department Date
   Chair, College Review Committee Date
   Dean of College Date

   Submitted to Coordinating Board by:
   Dean of College Date

   Director of Academic Support Services Date Effective Date

* Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/oaras. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
STAT 610-602 (Theory of Statistics I) Course Information

Fall 2006

Uschi Müller-Harknett  Office: BLOC 406 A  Phone: 845-8844
uschi@stat.tamu.edu

Office hours: T 11 – 12 and by appointment (or just find me).

Grader: Soutir Bandopadhyay, BLOC 405 B, soutir@stat.tamu.edu, office hours: MF 2 – 5.


Prerequisites: three semesters of calculus including theory of functions, continuity and differentiation, multiple integration, multivariate transformations and Jacobians, power series, Laplace transforms, limits, Taylor expansion; undergraduate introduction to statistics (e.g. STAT 211 or STAT 414) including conditional probability, random variables and their probability distributions, normal distribution, expectation and variance, sample mean and its properties, Student's t-test.

Homework will be posted on my website: http://www.stat.tamu.edu/~uschi
Homework is due at the beginning of class on the due date. You are encouraged to discuss the homework problems with other students, but you should write up your solutions independently. Do not copystudents' solutions or solutions from a manual. Late homework will not be accepted. Homework will count as 10% of the course grade (with lowest two grades dropped).

Exams will be given in class on Thursday, Oct 5 and Thursday, Nov 2 (Midterm I - II) and on Friday, Dec 8, 12:30 - 2:30 p.m. (Final). Each exam will count as 30% of the course grade. If you must miss a midterm exam due to illness or circumstances beyond your control, notify me or the Department of Statistics main office before the exam. If the absence is approved, then the final exam grade will be used to compensate for the missed exam.

Incompletes: a temporary grade of I (Incomplete) at the end of the semester indicates that the student has completed the course with the exception of a major quiz, final exam, or other work. The instructor shall give this grade only when the deficiency is due to an authorized absence or other cause beyond the control of the student. This grade will not be given because you feel that you have too much other work or study or because you think that you will not earn an acceptable grade in the course.

Class attendance is assumed. The syllabus, homework assignments, test dates may be changed by in-class announcements. Anything that is missed because a student was not in class at the time is the student’s responsibility.

Course outline
I. The Probability Measure (Section 1.2 - 1.6)
II. Working with Random Variables (Section 2.1 - 2.3, 3.6, 4.7)
III. Distribution Families (Section 3.2 - 3.5)
IV. Random Vectors (Section 4.1 - 4.6)
V. Random Samples (Section 5.3 - 5.5)

Plagiarism: the handouts used in this course are copyrighted. By “handouts” I mean all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission. As commonly defined, plagiarism consists of passing off as one's own ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, please consult the Texas A&M University Student Rules under the section “Scholastic Dishonesty”.

Academic integrity statement: “An Aggie does not lie, cheat or steal or tolerate those who do.” All syllabi shall contain the above Aggie Honor Code and refer to the Honor Council Rules and Procedures on the web http://www.tamu.edu/aggiehonor.

Statement on disabilities: the Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for people with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Support Services for Students with Disabilities in Cain Hall. The phone number is 845-1637.
STAT610, Semester I 2006-2007

Theory of Statistics I

Faming Liang, Ph.D
Bloc 406D, Ext. 58885
fliang@stat.tamu.edu
http://www.stat.tamu.edu/~fliang

The objective of this course is to introduce to students the basic theory of probability, which is fundamentally important for understanding commonly used statistical concepts and methods. This course also provides a necessary basis for students for a further study of advanced statistical courses.

Topics to be covered:

1. Probability theory: Basics of probability theory, conditional probability, independence, random variables, distribution function, density and mass functions.

2. Transformations and expectations: expectation, moments and moment generating functions.

3. Common families of distributions: discrete and continuous distributions, exponential families, location and scale families.

4. Multiple random variables: joints and marginal distributions, conditional distributions, mixture distributions, covariance and correlation, multivariate distributions.


Prerequisites: MATH 409 or concurrent enrollment in MATH 409

Recommended texts/references:


Grading Rule: Assignments: 10%; First midterm: 30%; Second midterm: 30%; Final examination: 30%.

Lectures: MWF 12:40-1:30 pm Location: BLOC 150

Tentative Office hours: WF 4:00-5:00 pm

Statements on the Course:

1. Late assignments will not be graded.

2. A makeup examination will be only given to the students who could provide satisfactory evidence that the absences are due to some causes beyond their control.

3. The student’s semester grade will be based solely upon the above grading rule. No exception will be made at the end of the semester for any particular student.

4. STATEMENT ON DISABILITIES (from “Beginning of semester information” by Professor M. Longnecker): 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 for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Support Services for Students with Disabilities in Room 126 of the Koldus Student Services Building. The phone number is 845-1637.

5. STATEMENT ON PLAGIARISM (from “Beginning of semester information” by Professor M. Longnecker): The handouts used in this course are copyrighted. By “handouts”, I mean all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission. As commonly defined, plagiarism consists of passing off as one’s own ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person. Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section “Scholastic Dishonesty”.

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Texas A&M University
Artamental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of STATISTICS

2. Course prefix, number and complete title of course: STAT 611: Theory of Statistics II

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

4. Complete current course title and current course description: We are proposing to only change the name not the course description.

5. Complete proposed course title and proposed course description (not to exceed 50 words): STAT 611: Theory of Statistics - Inference

6. a) As currently in course inventory:

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

   b) Changed to:

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

   Approval recommended by: ______________________ Date 9/4/06
   Head of Department ______________________ ______________________
   Chair, College Review Committee

   Head of Department (if cross-listed course) ______________________ Date 9/4/06
   Dean of College

   Submitted to Coordinating Board by: ______________________ Date 9/4/06
   Dean of College

   Director of Academic Support Services ______________________ Date ______________________ Effective Date

* Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/oams. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
The objective of this course is to introduce to students the basic theory of statistics, which is fundamentally important for understanding commonly used statistical concepts and methods. This course also provides students a necessary basis for a further study of advanced statistical courses.

**Topics to be covered:**


2. Point estimation: method of moments, maximum likelihood estimators, Bayes estimators, best unbiased estimators, the EM algorithm.

3. Hypothesis testing: likelihood ratio tests, Bayes tests, most powerful tests, $p$-values.

4. Interval Estimation: inverting method, pivotal method, Bayesian intervals, coverage probability.

5. Asymptotic Evaluations: point estimation, hypothesis testing, interval estimation.

**Prerequisites:** STAT610 or equivalent

**Recommended texts/references:**


**Grading Rule:** Assignments: 10%; First midterm: 30%; Second midterm: 30%; Final examination: 30%.
ADA, Plagiarism, and Academic Integrity Statement:

- TAMU STATEMENT ON DISABILITIES: The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation for their disabilities. If you believe you have a disability requiring an accommodation, please contact the Office of Support Services for Students with Disabilities in Room 126 of the Koldus Student Services Building. The phone number is 845-1637.

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- INCOMPLETE GRADE: A temporary grade of I (Incomplete) at the end of a semester indicates that the student has completed the course with the exception of a major quiz, final exam, or other work. The instructor shall give this grade only when the deficiency is due to an authorized absence or other cause beyond the control of the student.
Texas A&M University

Request for a Change in Course
Undergraduate • Graduate • Professional

Submit original form and 2 copies

1. This request is submitted by the Department of STATISTICS

2. Course prefix, number and complete title of course: STAT 613: Intermediate Theory of Statistics

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

4. Complete current course title and current course description: We are proposing to only change the name not the course description.

5. Complete proposed course title and proposed course description (not to exceed 50 words):
   STAT 613: Advanced Theory of Statistical Inference

6. a) As currently in course inventory:

   Prefix  Course #  Title (exclude punctuation)
   STAT 613  INTERM ED THRY OF STAT
   Lect.  Lab  SCH  Subject Matter Content Code  Admin. Unit  FICE Code
   Do not complete shaded area.

   b) Changed to:

   Prefix  Course #  Title (exclude punctuation)
   STAT 613  ADV. THRY OF STAT. INF.
   Lect.  Lab  SCH  Subject Matter Content Code  Admin. Unit  Acad. Year  FICE Code
   Approval recommended by:

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

* Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/oaras. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
Fall, 2006 (updated 8/30/06)


Class Meeting
Tuesday, Thursday 12:45–2:00PM, 411 Blocker Building

Instructor
Jianhua Huang, 405C Blocker, http://www.stat.tamu.edu/~jianhua
Office hour: Tuesday 2:00–3:30PM, or by appointment.

TA

Class Web Page
http://www.stat.tamu.edu/~jianhua/stat613-06fall

Grading
Based on class participation and homework (10%), quizzes (20%) a midterm (30%) and a final exam (40%).

Text
In All Likelihood: Statistical Modelling and Inference Using Likelihood.
By Yudi Pawitan. Oxford University Press.

Prerequisites
STAT 608, 610, 611.
This is a follow-up course of STAT 610 and 611. Students are assumed to have knowledge of Chapters 1-10 of Casella and Berger (Statistical Inference), including basic concepts of data reduction (through sufficiency), point and interval estimation, and hypothesis testing. Students are expected to have some knowledge of computer software R.

Teaching Principle
This is a theory course and thus we shall pay attention to theoretical derivations. I will focus on statistical ideas but not the mathematical rigor. The concepts and ideas will be motivated from real examples, sometimes accompanied with computing illustration in R.

Course Coverage
Topics to be covered in the course include exponential family of distributions, likelihood inference for multi-parameter models, Wald test, score test, likelihood ratio test, dealing with nuisance parameters, profile likelihood, conditional likelihood, partial likelihood, empirical likelihood, estimating equations and quasi-likelihood, maximum likelihood under model misspecification, and model selection. We will try to cover the whole text book and if time...
permits, some advanced materials.

**Statement on Disability**

The Americans with Disabilities (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, please contact the Office of Support Services for Students with Disabilities in Room 126 of the Koldus Student Services Building. The phone number is (979) 845-1637.

**Statement of Plagiarism**

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**Aggie Honor Code**

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Please see the Honor Council Rules and Procedures on the web at http://www.tamu.edu/aggiehonor for more information on academic integrity.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of **STATISTICS**
2. Course prefix, number and complete title of course: **STAT 614: Probability for Statistics**

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

4. Complete current course title and current course description: We are proposing to only change the name not the course description.

5. Complete proposed course title and proposed course description (not to exceed 50 words):
   **STAT 614: Statistical Applications in Probability**

6. a) As currently in course inventory:
   
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<td>SCH</td>
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<td>03</td>
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   Approval recommended by:
   **Martha Myers** 9/4/2006

   Head of Department Date

   Chair, College Review Committee Date

   Head of Department (if cross-listed course) Date

   Dean of College Date

   Submitted to Coordinating Board by:

   Dean of College Date

   Director of Academic Support Services Date

   Effective Date

* Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/oaras. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
# STAT 614 Course Information

<table>
<thead>
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<th><strong>Time and Place:</strong></th>
<th>MWF 12:40am–1:30am, Blocker 411.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Instructor:</strong></td>
<td>Daren Cline.</td>
</tr>
<tr>
<td><strong>Office:</strong></td>
<td>Blocker 459D, 845-1443.</td>
</tr>
<tr>
<td><strong>E-mail:</strong></td>
<td><a href="mailto:dcline@stat.tamu.edu">dcline@stat.tamu.edu</a></td>
</tr>
<tr>
<td><strong>Office Hours:</strong></td>
<td>MWF 8:30am–10:00am or by appointment.</td>
</tr>
<tr>
<td><strong>Course Web Page:</strong></td>
<td><a href="http://stat.tamu.edu/~dcline/614.html">http://stat.tamu.edu/~dcline/614.html</a></td>
</tr>
<tr>
<td></td>
<td>Homework assignments and lecture notes will be provided on this web page.</td>
</tr>
<tr>
<td><strong>References:</strong></td>
<td>(On reserve in Evans Library)</td>
</tr>
<tr>
<td></td>
<td>E. Lukacs, <em>Characteristic Functions</em>, Griffin.</td>
</tr>
<tr>
<td><strong>Prerequisite:</strong></td>
<td>Statistics 610 or equivalent, and advanced calculus. In particular, students should be familiar with random variables and their distributions at a practical level and with the theory of functions, integration, limits, etc., and they should be prepared to understand and to provide careful, rigorous proofs. A course in measure theory <em>is not</em> required since the necessary material will be presented in this course.</td>
</tr>
<tr>
<td><strong>Homework:</strong></td>
<td>Homework will be assigned (on the course web page) and collected regularly. Homework is worth 30% of the total term score. <em>Please see the homework policy below.</em></td>
</tr>
<tr>
<td><strong>Exams:</strong></td>
<td>A midterm exam worth 30% each and a final exam worth 40%. <em>Please see the exam policy below.</em></td>
</tr>
<tr>
<td><strong>Exam Dates:</strong></td>
<td>Midterm Exam: TBA.</td>
</tr>
<tr>
<td></td>
<td>Final Exam: TBA.</td>
</tr>
</tbody>
</table>
STAT 614 Course Policies

Homework Policy: Your homework solutions must be your own work, not from outside sources, consistent with the university rules on academic dishonesty. I expect you to follow this policy scrupulously. Your performance on the exams is much more likely to be better.

You may use:
- Your textbook and notes from class.
- Your notes, homework, etc., from a related class that you took or are taking.
- References listed on the syllabus.
- Discussion with the instructor or grader.
- Voluntary, mutual and cooperative discussion with other students currently taking the class.

You may not use:
- Solutions manuals (printed or electronic) and copies of pages from solutions manuals.
- Solutions from previous classes.
- Solutions, notes, homework, etc., from classes taught elsewhere or at another time.
- Solutions, notes, homework, etc., from students who took the class previously.
- Copying from students in this class, including expecting them to reveal their solutions in “discussion”.

Exam Policy: Each exam will be comprehensive and cumulative.
- You may bring your homework, your book and your notes.
- Please bring your own paper. I ask that separate problems be on separate sheets.
- No additional resources other than pen and paper are acceptable.

I will not expect you to quote theorems and results explicitly but I do expect you to demonstrate that you can make use of them. Specifically, you will need to:
- Show all your work. This does not necessarily mean showing every individual algebraic or calculus step – but it must be clear what those steps are.
- Identify (by name, number or description) any theorems, examples or homework problems you use.
- Clearly identify the solution and/or the end of a proof or derivation.

Copies of my old exams will be available on the course web page.

Makeup Policy: This is based on university policy.
- If you must miss an exam due to illness or circumstances beyond your control, notify me or the Statistics Department before the exam. See me immediately after you return (within one day) to schedule a make-up exam.
- Incompletes will be given only in the event that circumstances beyond your control cause prolonged absence from class and the work cannot be made up.
## STAT 614 Course Outline (under revision)

<table>
<thead>
<tr>
<th>Topic</th>
<th>Text Section</th>
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<tbody>
<tr>
<td><strong>1. Events and Classes of Events</strong></td>
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<tr>
<td>outcomes, events, review of set theory</td>
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<tr>
<td>limits of events</td>
<td>1.3, 1.4</td>
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<tr>
<td>(\pi)-classes, fields and (\sigma)-fields</td>
<td>1.5, 1.6</td>
</tr>
<tr>
<td>Borel (\sigma)-fields</td>
<td>1.7, 1.8</td>
</tr>
<tr>
<td>Dynkin's (\pi)-(\lambda) class theorem</td>
<td>2.2</td>
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<tr>
<td><strong>2. Probability Measures and Measures</strong></td>
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<tr>
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<td>2.1, 2.2, 2.3</td>
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<td>properties of measures, probability distributions, uniqueness</td>
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<td>distribution functions, Lebesgue-Stieltjes measures</td>
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<td>extension and existence theorems</td>
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<td><strong>3. Random Variables and Measurability</strong></td>
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<td>random variables and measurable functions, (\sigma)-field generated by a r.v.</td>
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<td>conditions for measurability</td>
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<td><strong>4. Independence</strong></td>
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<td>independence of finitely many events or random variables</td>
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<td>infinite collections of independent events or random variables</td>
<td>4.3, 4.4</td>
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<td>Borel-Cantelli lemmas, tail events, Kolmogorov's 0-1 law</td>
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<td>definitions, consistency of definitions</td>
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<td>monotone and dominated convergence theorems, extensions</td>
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<td><strong>6. Convergence of Random Variables and the Law of Large Numbers</strong></td>
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<td>selection theorem, Prohorov's theorem</td>
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<td>characteristic functions, Bochner's and continuity theorems</td>
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<td><strong>8. Absolute Continuity and Conditional Expectation</strong></td>
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The handouts used in this course are copyrighted. By "handouts," I mean all materials generated for this class, which include but are not limited to syllabi, quizzes, exams, lab problems, in-class materials, review sheets, and additional problem sets. Because these materials are copyrighted, you do not have the right to copy the handouts, unless I expressly grant permission. As commonly defined, plagiarism consists of passing off as one's own ideas, words, writing, etc., which belong to another. In accordance with this definition, you are committing plagiarism if you copy the work of another person and turn it in as your own, even if you should have the permission of that person.

Plagiarism is one of the worst academic sins, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Student Rules, under the section "Scholastic Dishonesty."

"An Aggie does not lie, cheat, or steal or tolerate those who do." For further information on academic integrity, see Honor Council Rules and Procedures at www.tamu.edu/aggiehonor.

A temporary grade of I (Incomplete) at the end of a semester indicates that the student has completed the course with the exception of a major quiz, final exam, or other work. The instructor shall give this grade only when the deficiency is due to an authorized absence or other cause beyond the control of the student.
Texas A&M University

Departmental Request for a Change in Course
Undergraduate • Graduate • Professional

1. This request is submitted by the Department of ____________

2. Course prefix, number and complete title of course: ____________

   The Structure & Policy of the European Union

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

   Cross-listed courses require the signatures of both department heads.
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.*

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

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

6. a) As currently in course inventory:

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

Head of Department (if cross-listed course) Date

Dean of College Date

Submitted to Coordinating Board by:

Director of Academic Support Services Date Effective Date

* Attach a syllabus according to the guidelines on the Internet site www.tamu.edu/admissions/oaras. To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and 2 copies •

1. This request is submitted by the Department of  Bush School

2. Course prefix, number and complete title of course: BUSH 655 The Structure and Policy of the European Union

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

4. Complete current course title and current course description:
   The Structure & Policy of the European Union - This course provides an introduction into the structure of the existing European Union, its creation and history, its current policy and the perspectives of its future enlargement. Students will achieve a working knowledge of the EU matters with its regional and global political and economic aspects.

5. Complete proposed course title and proposed course description (not to exceed 50 words):
   Evolution of the European Union - Explores the wider implications of the EU enlargement and integration, critically assess current EU developments and policies pertinent to international affairs, generate and apply a variety of individual and team oriented skills an real-world problems.

6. a) As currently in course inventory:

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Approval recommended by:

Head of Department ____________________________ Date ____________________________
Chair, College Review Committee ____________________________ Date ____________________________

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

Submitted to Coordinating Board by:

Dean of College ____________________________ Date ____________________________

Director of Academic Support Services ____________________________ Date ____________________________
Effective Date ____________________________

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737. 30 of 46
Evolution of the European Union

BUSH 689-604

Spring 2006  T 9:00-11:50AM  Allen 1055

Dr. Johan Lembke
Office: European Union Center, Annenberg Presidential Conference Center, Room 1027
Phone: (979) 862-6701  Office Hours: T 1:00-2:30PM (or by appointment)

Syllabus

Course Description and Purposes

This course examines the multiple roles and importance of the European Union (EU) in international affairs and the evolution of the EU as a strategic actor on the international scene. It looks at the development of a common foreign and security policy (and its various instruments), the EU's foreign economic policies and trade and investment strategies, efforts to integrate specific policies into overall foreign policies and strategies, and the strategic implications of EU enlargement and regional approaches for the EU in international affairs.

This graduate seminar has three general objectives: to (1) explore the wider strategic implications of the EU's role in the global political economy and international affairs; (2) critically assess current EU developments and policies pertinent to international affairs; and (3) generate and apply a variety of skills. A range of diverse assignments and exercises will support these objectives. The expected outcome is that the students in this course will acquire a good understanding of the EU in international affairs and enhance their ability to use various skills that are valuable both toward degree completion and careers in public and international affairs.

Required Textbooks (available at the Memorial Student Center bookstore)


Additional Reading Assignments

The additional reading assignments in the syllabus will be available via XXX.
Course Elements, Assignments and Grading Guidelines

Participants are assessed based on the entire body of semester work and grades are assigned based on multiple, different ways of evaluation (class participation, written production, oral presentations, and teamwork). All elements below must be completed for a satisfactory fulfillment to successfully pass this course.

- Research/policy paper: 40%
- Class participation and role-play exercise: 20%
- Discussion leadership: 20%
- Presentations of assigned readings: 10%
- Presentation of paper: 10%

Written Assignments: Submission Deadlines

- Paper proposal: February 21 (Week 6)
- Team statement (for role-play exercise): April 11 (Week 13)
- Paper: May 2 (Week 16)

1. Research/Policy Paper

**Assessment:** This element is assessed based on your ability to clearly describe the purpose of the research/policy paper and formulate a question/problem/puzzle that is thoroughly examined, to describe the importance of the question/problem/puzzle in an interesting manner, to identify and use relevant material and methods, to elaborate a conclusion that not only summarizes the paper but offers comments beyond the immediate contents of the paper, and to provide thoughtful feedback on the paper proposals presented by the other participants.

**Description:** Each participant will write a research/policy paper, which should be in the form of a journal article for submission to the graduate online journal *Atlantic Affairs Journal*. You need to follow the submission guidelines for the *Atlantic Affairs Journal*, which are available at [http://eucenter.tamu.edu/publications/Atlantic Affairs Journal](http://eucenter.tamu.edu/publications/Atlantic Affairs Journal).

Each participant needs to email the instructor a brief paper proposal (1-2 paragraphs) by **February 21 (Week 6)** with a tentative title outlining (1) the question to be answered in the paper, (2) the relevance of this question, and (3) the material and methods that will be used to answer it. The instructor will then put together all the proposals in one document and distribute it through email. We will discuss the proposals in class on **February 28 (Week 7)** and **March 7 (Week 8)**. You should be familiar with the proposals and prepared to provide feedback.

By **May 2**, each participant must submit the final paper via email to the instructor. In addition, you need submit it to the *Atlantic Affairs Journal* at eucenter@tamu.edu and write “AAJ final paper” in the subject box following the guidelines for submission (unless you do not permit it to be considered for publication in *Atlantic Affairs Journal*).
2. Class Participation and Simulation (Role-play Exercise)

**Assessment:** This element is assessed based on your activity, preparedness on and thoughtful contribution to weekly reading assignments, paper proposals, simulation (role-play exercise), and weekly comments or questions in the classroom.

**Role-play exercise:** This is a teamwork assignment. You are expected to team up with other participants (group size to be determined later) and work together throughout the course. You are encouraged to elect a lead participant who will be responsible for the overall management of the team's activities. The role-play exercise is scheduled for **April 25 (Week 15).** Each group will prepare, defend and criticize arguments for or against specific ideas and positions, and anticipate the arguments of other groups, in a teamwork environment. Each group should email all other participants and the instructor a team statement by **April 18 (Week 14),** which should include the following:

1. The basic position of your group and the arguments in support of your position;
2. The (potential) major implications if your position is not supported;
3. A conclusion that stresses the importance of the issue/your position.

2. Discussion Leadership

**Description:** A student participant will serve as a discussion leader each class, and you may act as such more than once (depending on the number of students in the course). The discussion leader will (1) provide some basic information about each author; (2) offer a brief summary of each assigned reading, (3) prepare probing questions related to each reading assignment and pose those questions in class; and (4) moderate the discussion and foster and infuse energy into class discussion more generally.

3. Presentations of Assigned Readings

**Assessment:** This element is assessed based on your oral performance in structuring and delivering two or more in-class presentations of assigned readings.

**Description:** The presentations (~10 minutes) should cover the overall argument of the author(s), the context within which the argument is framed, and how it is supported. Ideally, each presentation should also offer either a strong advocacy and defense or a vigorous critique and rebuttal of one or more of the author's (authors') argument(s). In addition, the presentations should include your own analysis of the argument and suggestion of an alternative argument and approach.

5. Presentation of Paper

**Assessment:** This element is assessed based on your oral performance in structuring and delivering an in-class presentation of your policy paper.

**Description:** Each student participant will present in class the overall argument and outline of their research/policy papers. The presentations are scheduled for **March 21 (Week 10), March 28 (Week 11), and April 4 (Week 12).** Those who present early will
have more time to integrate comments; those who present later more time to prepare the briefing. Participants will grade each other’s presentation on a five-point scale (“excellent”, “very good”, “good”, “poor”, and “unsatisfactory”).

**Academic Integrity**

By accepting admission to this university, each student has the responsibility to be fully acquainted and comply with its academic and student rules. The Texas A&M University student rules (http://student-rules.tamu.edu) govern civic behavior and the Aggie Honor Systems office governs academic behavior (http://www.tamu.edu/aggiehonor/acadmisconduct.htm).

**Disability Services**

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 influencing your performance in this course and requiring an accommodation, please contact Disability Services (see below). It provides services to students with disabilities to insure accessibility to university programs, and offers accommodations counseling, evaluation referral, disability-related information, adaptive technology counseling and equipment, and interpreter services for academically related purposes. I encourage you to contact me from the outset if you have any personal or professional difficulty or circumstance that may conflict with your ability to fulfill the requirements of this course.

**Address:** Disability Services  
Cain Hall, Room B118  
1224 TAMU  
College Station, Texas 77843-1224  
**Email:** disability@tamu.edu  
**Phone:** (979) 845-1637  
**Website:** http://disability.tamu.edu

**Failure to Complete Assignment by the Scheduled Date**

The instructor should be notified immediately of any legitimate and unavoidable circumstances preventing a student from completing an assignment by the scheduled date. If the student fails to complete an assignment on time and claims to have legitimate medical or family-related reasons, etc., s/he has to – without exceptions – provide the instructor with documentation before the end of the course. If the student cannot attend class when an assignment is due, he or she needs to submit the assignment electronically to the instructor before the class starts the day the assignment is due. Please make sure to store security copies of any documents/work assignments that you are working on and have submitted (on a floppy disc, in your email account, etc., in addition to a hard drive). Late papers will be marked down by 1/3 grade per day of lateness (for example, an A paper becomes an A- paper the next day, a B+ paper the following day, etc.).
Class Schedule

Week 1 – January 17: Course Introduction and Overview

Week 2 – January 24: TBD

Week 3 – January 31: Demography, Labor Markets and Competitiveness

Week 4 – February 7: The European Union as an international strategic actor

Week 5 – February 14: Exporting the European Union – Soft Expansionism

Week 6 – February 21: The evolution of Europe’s foreign and security policy

Week 7 – February 28: The progressive militarization of the EU

Week 8 – March 7: The EU’s Foreign Policy of Enlargement

Week 9 – March 14: Spring Break

Week 10 – March 21: EU Enlargement to South East Europe and the Black Sea

Week 11 – March 28: Regionalism and Multilateralism

Week 12 – April 4: The European Union and China

Week 13 – April 11: TBD

Week 14 – April 18: TBD

Week 15 – April 25: TBD

Week 16 – May 2: Concluding session – The EU as an international strategic actor?
Texas A&M University
Arttmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and 2 copies •

1. This request is submitted by the Department of Management
2. Course prefix, number and complete title of course: MGMT 660 Strategic and Global Human Resource Management

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

4. Complete current course title and current course description: Strategic and Global Human Resource Management - This course will discuss the link between HRM and organizational strategy, and the importance of HRM in enhancing firm performance. Emphasis will be given to strategic HRM in employee relations, performance management, and reward systems. The course will also address issues and choices facing HR managers confronting multinational enterprises.

5. Complete proposed course title and proposed course description (not to exceed 50 words): Global Human Resource Management - This course will examine HRM in a global context. Emphasis will be given to global HR functions such as international staffing, training, and compensation. The course will focus on global HRM trends and challenges and will also address issues and choices HR managers face in multinational enterprises.

6. a) As currently in course inventory:

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Approval recommended by: R. Duane Speckard 9-11-06

Head of Department Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:

Director of Academic Support Services Date

Effective Date

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

OAR/AS- 5/04

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MGMT 660
Global Human Resource Management

Course Objective:
This course will examine HRM in a global context. Emphasis will be given to global HR functions such as international staffing, training, and compensation. The course will focus on global HRM trends and challenges and will also address issues and choices HR managers face in multinational enterprises.

Required Readings:


Class Format:
This course is designed to be interactive. Several guest lecturers are scheduled. In addition, there will be a discussion of assigned readings and a discussion lead by students of assigned cases. It is expected that students at this level will be active participants in exchange with guest discussions of readings and cases.

Graded Material:
Discussion of Assigned Readings: Students will lead the discussion of assigned readings. This exercise should be limited to 30 minutes.

Case Presentation: Students will analyze a case from the text and present a summary, analysis and action plan, if appropriate. The other class members will be expected to question, challenge and ask for clarification. This exercise should be limited to 30 minutes.

Class Participation: We will have a number of guest lecturers which class members should be prepared to enter in to discussions with. In addition, it is expected you will be prepared to discuss the assigned readings.

Midterm Exam: There will be a midterm exam over the material covered and information from guest speakers.

Individual Country Presentation: Each of you will prepare a written report and present to the class an HR analysis of a country as a possible expansion of a company. We will develop the format for this analysis as a class project.

Grades will be determined as follows:
Class participation 100
Case discussion 100
Midterm exam 100
Individual presentation 200

Final grades will be the result of your cumulative point total as follows:
A: 400-500
B: 300-400
C: 200-300
F: < 200

Although I am sure you understand the following, I understand this section is necessary.

I. Attendance and Tardiness

You are expected to be in class since participation is a segment of your grade. Once a guest lecturer begins, do not enter the class until the guest has finished.

II. Scholastic Dishonesty

Needless to say, any form of scholastic dishonesty, including cheating and plagiarism, and you are done. If you have any questions, check the “Aggie Honor Code” or visit http://www.tamu.edu/aggiehonor/. I am tougher than the code.

Aggie Honor Code

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

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

On all course work, assignments, and examinations at Texas A&M University, it is recommended that the following Honor Pledge be preprinted and signed by the student: “On my honor, as an Aggie, I have neither given nor received unauthorized aid on this academic work.”
III. ADA Policy

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 let me know and contact Disability Services, visit http://disability.tamu.edu, call 845-1637, or go to Cain Hall, Room B118.

IV. Food and Beverage Policy

We have beautiful and state-of-the-art classrooms in the Wehner Building and Cox Hall. We want to maintain the high quality of these classrooms for the students in future years. Thus, it is necessary for you to adhere to the established policy of NO BEVERAGES, FOOD, TOBACCO PRODUCTS, OR ANIMALS (unless approved) within the Wehner Building and Cox Hall classrooms.

Course Schedule

Introductions; Review of syllabus and course outline; Discussion of class objectives.
Assigned readings: Chapter 1, *International Human Resource Management* (hereafter referred to as IHRM); Readings 1.2 Managing the Global Workforce: Challenges and Strategies, *Readings and Cases in International Human Resource Management* (hereafter referred to as R&C). Be prepared to discuss in next class.

Discussion of Chapter 1; Discussion of Reading 1.2
Assigned readings: Chapter 4, Chapter 5 (IHRM); Case 3.1 (R&C).

Discussion of Chapter 4; Chapter 5; and Case 3.1
Assigned readings: Chapter 8 (IHRM); Readings 7.3 (R&C); Case 7.2 (R&C).

Discussion of Chapter 8; Readings 7.3; Case 7.2
Assigned readings: Chapter 7 (IHRM); Readings 4.1 and 4.3 (R&C); Case 4.2 (R&C).

Discussion of Chapter 7; Readings 4.1; Reading 4.3; Case 4.2
Assigned readings: Chapter 9 (IHRM); Case 6.1 and 6.2 (R&C).

Discussion of Chapter 9; Case 6.1; Case 6.2
Assigned readings: Chapters 2, 3, and 11, IHRM; Case 2.1 (R&C).

Discussion of Chapter 2; Chapter 3; Chapter 11; Case 2.1; Mid-term exam
Assigned readings: Chapter 6 (IHRM); Reading 5.1 (R&C).

Discussion Chapter 6; Reading 5.1; Chapter 10; Develop format for international data information and analysis; Select countries; Develop order of presentation.

Report on first four or five countries (each report approximately 30 minutes).
Report on next four or five countries.

Assigned readings: Readings 8.1 and 8.2 (R&C).

Discussion of readings 8.1 and 8.2; Report on next three or four countries.

Finish country reports

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

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

2. Course prefix, number and complete title of course: POSC 625 Least-Cost Feed Formulation.

3. Change requested:
   a) Prerequisite(s): From POSC 411; ANSC 309 To POSC 411 or ANSC 318
   b) Withdrawal (reason)
   c) Cross-list with ANSC 623
   d) Change in course title and description. Enter complete current course title and current course description; complete proposed course title and proposed course description in items 4 and 5.
   e) Change in credit/contact hours. Complete item 6b. Underscore change(s). Attach a course syllabus.

4. Complete current course title and current course description:
   Theoretical and applied principles associated with least-cost feed formulation, ingredient inventory, farm and feed mill management; computer optimization of resources for most efficient least-cost production with applications to all domestic farm animals; applications of micro-computer technology.

5. Complete proposed course title and proposed course description (not to exceed 50 words): Precision Diet Formulation.
   Theoretical and applied principles associated with precision feeding and diet formulation to optimize nutrient requirements; optimization using least-cost formulation, ingredient inventory, farm and feed mill management, and nutrient management of non-ruminants (poultry, swine, horse, and fish) and ruminant animals (beef and dairy).

6. a) As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
</tr>
</thead>
<tbody>
<tr>
<td>POSC 625</td>
<td>LEAST-COST FEED FORM</td>
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</tbody>
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   Lect. Lab SCH Subject Matter Content Code Admin. Unit FICE Code
   0 2 0 2 0 3 . . . . 0 0 3 6 3 2
   Do not complete shaded area.

   b) Changed to:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (exclude punctuation)</th>
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<tbody>
<tr>
<td>POSC 625</td>
<td>PRECISION DIET FORMULA</td>
<td></td>
</tr>
</tbody>
</table>

   Lect. Lab SCH Subject Matter Content Code Admin. Unit Acad. Year FICE Code
   0 2 0 2 0 3 . . . . 0 7 - 0 8 0 0 3 6 3 2
   Level 6

   Approval recommended by:

   Head of Department 9/11/05
   Chair, College Review Committee 9/13/06
   Dean of College 9/16-06

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

   Submitted to Coordinating Board by:

   Director of Academic Support Services Date Effective Date

To have this form reviewed, please send to Linda F. Lacey, Mail Stop 1265 or fax to 847-8737. OAR/AS-5/04
ANSC 623/POSC 625 - Precision Diet Formulation

Mondays and Wednesdays 3:00 – 4:40 pm

Spring 2007

Instructors:
C. A. Bailey
Professor
Texas A&M University

Room 242A, Kleberg Building
Phone: (979) 845-7537
Fax: (979) 845-1921

G. E. Carstens
Professor
Texas A&M University

230 Kleberg Center
2471 TAMU
Phone: (979) 845-5065
Fax: (979) 845-5292

L. O. Tedeschi
Assistant Professor
Texas A&M University

230 Kleberg Center
2471 TAMU
Phone: (979) 845-5065
Fax: (979) 845-5292

http://nutritionmodels.tamu.edu

Course Description: Theoretical and applied principles associated with precision feeding and diet formulation to optimize nutrient requirements; optimization using least-cost formulation, ingredient inventory, farm and feed mill management, and nutrient management of non-ruminants (poultry, swine, horse, and fish) and ruminant animals (beef and dairy).

Course requirements: The prerequisite for this course is POSC 411 or ANSC 318 or approval of the instructor. All students should have taken one or more general nutrition courses prior to taking this course.

Textbooks: There will not be a required textbook for this course. A number of suggested texts are listed below.

Poultry Nutrition and Feeding (Optional)
By Gene M. Pesti, R.I. Bakalli, J.P. Driver, A. Atencio and E.H. Foster, 2005
Trafford Publishing (http://Trafford.com/05-2431)

National Research Council Publications on Nutrient Requirements (Optional)
Poultry, Beef Cattle, Dairy Cattle, Swine, Horses, Sheep, Fish, etc. National Academy of Sciences, Washington, D.C.
(http://www.nap.edu/catalog/2114.html)
Other books on NRC Nutrient Requirements from National Academy Press:
(http://www.fao.org/ag/aga/agap/frp/nrcnut.htm)

Feeding Systems and Feed Evaluation Models (Optional)
Edited By M.K. Theodorou and J. France
CABI Publishing New York, NY 10016 USA

Grading system: Homework assignments will be assigned weekly and due the following week. Homework will comprise 50% of the final grade, midterm exam will comprise 25% of the final grade, and the final exam will comprise 25% of the final grade. Final grades will be assigned based on the grid shown below.

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<thead>
<tr>
<th>Lower</th>
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<td>68</td>
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Americans with Disabilities Act (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 B-118 in the Cain Building, or call (979) 845-1637.

Academic Integrity Statement:

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

For more information on Academic Integrity, please refer to the Honor Council Rules and Procedures on the web at http://www.tamu.edu/aggiehonor.

Plagiarism is defined as "failing to credit sources used in a work product in an attempt to pass off the work as one's own; attempting to receive credit for work performed by another, including papers obtained in whole or in part from individuals or other sources." Plagiarism is one of the worst academic sins because it destroys the trust among colleagues without which research cannot be safely and widely communicated (http://library.tamu.edu/aggiehonor).
## Course Outline:

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture Description</th>
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<tbody>
<tr>
<td>January 17</td>
<td>Feed Manufacturing Technology</td>
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<td>- Feed Mill Flow</td>
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<td>- Poisson Distribution in Mixtures</td>
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<td>- Factors Affecting Uniformity</td>
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<td>- Optimizing Ingredient Selection</td>
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<td>- Ingredient Mixing Considerations</td>
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<td>- Mixer Considerations</td>
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<tr>
<td>January 22</td>
<td>Grain processing and quality control</td>
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<td>- Particle Size Reduction</td>
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<td>- Uniformity of Particle Size</td>
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<td>- Roller Mills vs. Hammermills</td>
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<td>- Pelleting and Expanding</td>
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<td>- Statistical Measures</td>
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<td>- Sampling</td>
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<tr>
<td>January 24</td>
<td>Commercial Feeds: Laws and Regulations</td>
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<tr>
<td></td>
<td>- Mr. Roger Hoestenbach - Head of Feed and Fertilizer Control for Texas</td>
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<tr>
<td>January 29</td>
<td>Least Cost Feed Formulation</td>
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<tr>
<td></td>
<td>- Introduction to least cost formulation</td>
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<td>- Price Margins</td>
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<td>- Shadow prices</td>
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<td>January 31</td>
<td>Feed Formulation Software for Monogastrics</td>
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<td>- Introduction to the Agri-Data Concept 5 System</td>
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<td>February 5</td>
<td>Concept 5 Feed Formulation</td>
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<td>- Using the Concept 5 Least Cost Feed System</td>
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<tr>
<td>February 7</td>
<td>Formulating Feeds for Poultry</td>
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<td></td>
<td>- Replacement Pullets</td>
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<tr>
<td>February 12</td>
<td>Formulating feeds for poultry</td>
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<td>- Laying Hens</td>
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<td>February 14</td>
<td>Formulating feeds for poultry</td>
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<td>- Broilers</td>
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<td>February 19</td>
<td>Formulating feeds for poultry</td>
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<td></td>
<td>- Turkeys</td>
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<td>Date</td>
<td>Lecture Description</td>
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<tr>
<td>February 21</td>
<td>Formulating feeds for swine I</td>
</tr>
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<td></td>
<td>• Dr. Darrel Knabe</td>
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<tr>
<td>February 26</td>
<td>Formulating feeds for swine II</td>
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<td></td>
<td>• Dr. Darrel Knabe</td>
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<tr>
<td>February 28</td>
<td>Formulating feeds for aquatic species I</td>
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<td></td>
<td>• Dr. Delbert Gatlin</td>
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<td>March 5</td>
<td>Formulating feeds for aquatic species II</td>
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<td>• Dr. Delbert Gatlin</td>
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<td>March 7</td>
<td>Formulating feeds for Horses</td>
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<td></td>
<td>• Dr. Gary Potter</td>
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<tr>
<td>March 12 – 16</td>
<td><strong>Spring Break</strong></td>
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<tr>
<td>March 19</td>
<td><strong>Midterm exam</strong></td>
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<tr>
<td>March 21</td>
<td>Feeds and feeding for cattle</td>
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<tr>
<td></td>
<td>• Overview of feeds commonly used for beef and dairy cattle</td>
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<td></td>
<td>• Chemical characterization of feedstuffs</td>
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<td></td>
<td>• Concepts of fiber and non-fiber</td>
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<td></td>
<td>• Degradation and passage rates</td>
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<td>• Ruminal digestibility</td>
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<td>March 26</td>
<td>Meeting the rumen requirements</td>
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<td></td>
<td>• Concept of RDP/DIP and RUP/UIP</td>
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<td>• Microbial requirements</td>
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<td>• Controlling the ruminal pH</td>
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<td>• Shifting VFA and methane production; affects on DE</td>
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<td>• Antimicrobials (ionophores)</td>
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<tr>
<td>March 28</td>
<td>Ruminal and intestinal digestibility</td>
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<td></td>
<td>• Grain processing</td>
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<td>• Particle size concept</td>
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<td>April 2</td>
<td>Decision support systems for beef and dairy cattle</td>
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<td></td>
<td>• The NRC system</td>
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<td>• The CNCPS model</td>
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<td>• Other models for beef: TAURUS and DECI</td>
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<td>• Other models for dairy: Molly and Caroline</td>
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<td>Date</td>
<td>Lecture Description</td>
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<tr>
<td>April 4</td>
<td>Diet formulation for beef cattle</td>
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<td>• Cow supplementation</td>
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<td>• Calf creep-feeding</td>
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<td>April 9</td>
<td>Diet formulation for beef cattle</td>
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<td>• Stocker</td>
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<td>April 11</td>
<td>Diet formulation for beef cattle</td>
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<td>• Feedlot</td>
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<td>April 16</td>
<td>Diet formulation for beef cattle</td>
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<td></td>
<td>• Mineral supplementation</td>
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<td>April 18</td>
<td>Diet Formulation for dairy cattle</td>
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<td>• Energy and protein</td>
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<td>• Physically effective fiber</td>
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<td>April 23</td>
<td>Diet formulation for dairy cattle</td>
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<td>• Minerals and vitamins</td>
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<td>• Dietary Cation-Anion Balance (DCAB)</td>
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<td>April 25</td>
<td>Diet formulation for dairy cattle</td>
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<td>• Herd formulation</td>
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<td>Nutrient management systems</td>
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<td>• Precision feeding</td>
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<td>• An integrated optimization</td>
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