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

Form Instructions

1. Course request type:
   - [ ] Undergraduate
   - [ ] Graduate
   - [ ] First Professional (DMD, MD, JD, PharmD, DPA)

2. Request submitted by (Department or Program Name):
   Department of Animal Science

3. Course prefix, number and complete title of course:
   ANSC 615 Comparative Ruminant Animal Nutrition

4. Change requested
   - Prerequisite(s): From: ANSC 107, ANSC 108
   - Withdrawal (reason):
   - Cross-list with:
   - Consolidated course requires signature of both department heads:
   - Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   - Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
   - Is this an existing core curriculum course?
     - [ ] Yes
     - [ ] No
   - If grade type is changing for existing course, indicate the new grade type:
     - [ ] Grade
     - [ ] S/U
     - [ ] P/F (CLARD)
   - If this course will be stacked, please indicate the course number of the stacked course:
     ANSC 415

5. Complete current course title and current catalog course description:
   ANSC 615 Comparative Ruminant Animal Nutrition
   Contrast two scenarios of ruminant production in Brazil; the effects of globalization on the two different production systems

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   ANSC 615 Brazil: Comparative Ruminant Production
   Contrast two scenarios of ruminant production in Brazil; the effects of globalization on the two different production systems.

7. As currently in course inventory:

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8. Changes to:

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<th>Title (excluding punctuation)</th>
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Approval recommended by:

H. Russell Cross
Department Head or Program Chair (Type Name & Sign) Date: 10/16/14

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services - 08/14
Statement for changes
ANSC 615

4a. Prerequisites- The prerequisites originally approved were not intended for this graduate level course. The proposed prerequisites are appropriate for this graduate level course.

10. Proposed course title- There was a mistake in the wording in the original title that emphasized animal nutrition. The proposed course title reflects the intended emphasis of production and matches the stacked course ANSC 415. There is no change in the course description.

11b. The abbreviated title should be changed from Braz Comp Ruminant Nutr to Braz Comp Ruminant Prod.
ANSC 615 Brazil: Comparative Ruminant Production

Summer Course

May 29, 2015 to June 18, 2015

Texas A&M Instructors
Prof. Luis O. Tedeschi
230 Kleberg Center
2471 TAMU
Phone: (979) 845-5065
luis.tedeschi@tamu.edu

Brazilian University Invited Instructors
Universidade Federal Rural de Pernambuco
To be determined

Cathryn Clement (Invited instructor)
Borlaug Institute for International Agriculture
100 Teague Building
Office: 979-458-0820
clement@ag.tamu.edu

Prof. Raul Franzolin Neto
Universidade de São Paulo
Faculdade de Zootecnia e Engenharia de Alimentos
rfranzol@usp.br

Course Information: This course will expose students to two contrasting and different scenarios of ruminant production in Brazil. Ruminant animals (cattle, water buffalo, sheep, and goats) have an unambiguous characteristic: they can convert human-inedible resources (e.g. cellulose) into animal products (e.g. milk and meat) for human consumption. Globalization has imposed changes in economic and political arenas. Certain changes in the international agriculture have created new opportunities for efficient production of ruminants in different parts of the world. Brazil and the US together have the largest commercial herd of ruminant animals in the world and different production systems. Students will attend a one week at the Universidade Federal Rural de Pernambuco (UFRPE) in which small ruminants (sheep and goats) and forage production will be emphasized. Then, in the following week, students will spend a week at the Universidade de São Paulo, Campus Pirassununga (USP/FZEA), to learn about large ruminant production (beef and dairy cattle, water buffalo, and product processing).

Credits: This is a 3-credit course.

Course requirements: The prerequisite for this course is general animal science courses (ANSC 603 and/or ANSC 604) or approval of the instructor.

Travel abroad requirements: Students will need to obtain a student visa to travel to Brazil.

Textbooks: There will not be a required textbook for this course. See list of references at the end for further information.
Learning Outcomes: Upon taking this course the student will be able to...

- gain an in-depth understanding of ruminant animal production of small ruminant and compare it to large ruminant
- understand how globalization impacts the production industry
- prepare a written and oral report of current industry issues dealing with ruminant animal production

Grading System: Grades will be on a letter basis (50% from an on-site oral presentation and 50% from a report). Student will have to (1.) make a presentation about the ruminant production systems visited and compare them with US production systems. Additional requirements for ANSC 615 graduate credit: write a report (from 5 to 10 pages, single spaced, no title page, and with line and page numbers). Final reports will be due on June 27, 2015.

Presentations will be graded as described below and each item is worth 10 points.

| Organization and technicality. Information presented was sound, good use of sketches, graphics, and table to convey the information. |
| Visual: slides, overheads, handouts; use of animations. |
| Speaking: Ability to convey the information clearly based on volume, pace/rhythm, and intonation. Jokes were inappropriate. |
| Explanation: Speaker was able to command and control the subject; explained well the concepts. |
| Questions: Speaker was able to clearly answer questions, go to the point, and provide feedback to the audience. |

<table>
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<th>Assignment</th>
<th>Points</th>
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<tr>
<td>On-site oral presentation</td>
<td>50</td>
</tr>
<tr>
<td>Student report</td>
<td>50</td>
</tr>
<tr>
<td><strong>Total Points Possible:</strong></td>
<td><strong>100</strong></td>
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</tbody>
</table>

Final grade: A ≥ 90 points, B = 80-89 points, C = 70-79 points, D = 60-69 points, F ≤ 59 points. Final grades will be made available as soon as possible, and will be posted online. Actual reports will be returned to the student.

Americans with Disabilities Act (ADA) Policy Statement:

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 979-845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).
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 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://aggiehonor.tamu.edu).

Course outline

Texas A&M University

<table>
<thead>
<tr>
<th>Date</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>May 29, 2015 (FRIDAY)</td>
<td>Briefing about the visit sites in Brazil</td>
</tr>
<tr>
<td>May 30, 2015 (SATURDAY)</td>
<td>Travel: Houston to São Paulo</td>
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<tr>
<td>May 31, 2015 (SUNDAY)</td>
<td>Travel: São Paulo to Recife</td>
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Universidade Federal Rural de Pernambuco
<table>
<thead>
<tr>
<th>Dates</th>
<th>Description</th>
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<tbody>
<tr>
<td>May 31, 2015 (SUNDAY)</td>
<td><strong>City tour (Recife and Olinda)</strong></td>
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<tr>
<td>9am – 3pm</td>
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<tr>
<td>June 1, 2015 (MONDAY)</td>
<td><strong>Overview of biomes and forage production systems in Brazil (Dr. Dubeux)</strong></td>
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<tr>
<td>9am – 10am</td>
<td></td>
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<tr>
<td></td>
<td><strong>Visit forage facilities (forage plots and laboratories) at DZ/UFRPE</strong></td>
</tr>
<tr>
<td>10am – 12pm</td>
<td></td>
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<tr>
<td>12pm – 2pm</td>
<td><strong>Lunch</strong></td>
</tr>
<tr>
<td>2pm – 3pm</td>
<td><strong>Overview of small ruminant production systems in Brazil (Dr. Guim)</strong></td>
</tr>
<tr>
<td>3pm – 4pm</td>
<td><strong>Overview of small ruminant production systems in the US (Dr. Tedeschi)</strong></td>
</tr>
<tr>
<td>4pm – 6pm</td>
<td><strong>University tour (veterinary medicine, agronomy, soils and fisheries)</strong></td>
</tr>
<tr>
<td>June 2, 2015 (TUESDAY)</td>
<td><strong>Visit Experimental Station in Itambé, PE, on the Coastal area; experimentation on tropical grasses and legumes for crossbred cattle and sheep</strong></td>
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<tr>
<td>8am – 6pm</td>
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<tr>
<td>Date</td>
<td>Event</td>
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<tr>
<td>June 3, 2015 (WEDNESDAY)</td>
<td>9am – 10am  Major forage species grown in Brazil (Dr. Dubeux)</td>
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<td></td>
<td>10am – 11am  Visit forage anatomy lab for practical classes in forage anatomy and its links with forage nutrition values</td>
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<td></td>
<td>11am – 12am  Comparative analysis between anatomical, physiological, and nutritional aspects of tropical grasses and temperate grasses (Dr. Dubeux)</td>
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<tr>
<td></td>
<td>12pm – 2pm   Lunch</td>
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<tr>
<td></td>
<td>2pm – 3pm    Major sheep and goats breeds in Brazil (Dr. Ribeiro)</td>
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<td></td>
<td>3pm – 5pm    Visit small ruminant facilities at DZ/UFRPE</td>
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<td></td>
<td>5pm – 6pm    Nutritional requirements of sheep and goats – focus on Brazilian breeds (Dr. Robson)</td>
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<tr>
<td>June 4, 2015 (THURSDAY)</td>
<td>8am – 6pm     Visit Caroatá Farm, a nationwide famous farm for raising pure breeds sheep and goats; Visit a meat goat farmer in Bezerros; Lunch; Visit local handicraft center</td>
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<tr>
<td>June 5, 2015 (FRIDAY)</td>
<td>8am – 6pm     Visit Caruaru Experimental Station and small farms in the region</td>
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<tr>
<td>June 6, 2015 (SATURDAY)</td>
<td>8am – 6pm     Beach tour (Porto de Galinhas, PE)</td>
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<td>June 7, 2015 (SUNDAY)</td>
<td>Travel: Recife to Pirassununga, São Paulo</td>
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<tr>
<td>Dates</td>
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<tr>
<td>June 8, 2015 (MONDAY)</td>
<td>Overview of the extensive and intensive beef cattle production systems in Brazil (Drs. Paulo Leme and Saulo Silva)</td>
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<td>8am – 9:30am</td>
<td>Coffee break</td>
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<td>9:30 – 10am</td>
<td>Overview of the beef cattle production in the US (Dr. Tedeschi)</td>
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<tr>
<td>10am – 11am</td>
<td>Zebu, European, and crossbreed cattle and genetic improvement and management (Dr. José Bento S. Ferraz)</td>
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<tr>
<td>12pm – 2pm</td>
<td>Lunch</td>
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<tr>
<td>2pm – 5pm</td>
<td>Visit beef cattle grazing and feedlot production facilities at USP</td>
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<tr>
<td>Date</td>
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<tr>
<td>June 9, 2015 (TUESDAY)</td>
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<td>June 10, 2015 (WEDNESDAY)</td>
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<td>9:30am – 10am</td>
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<td>2pm to 5pm</td>
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<td>June 11, 2015 (THURSDAY)</td>
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<td>June 12, 2015 (FRIDAY)</td>
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<td>9am – 9:15am</td>
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<td>10:15am – 11am</td>
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<td>11am – 12am</td>
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<td>12am – 5pm</td>
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<td>June 13, 2015 (SATURDAY)</td>
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<td>June 14, 2015 (SUNDAY)</td>
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<td>June 15, 2015 (MONDAY)</td>
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<td>6pm – 7pm</td>
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<td>June 16, 2015 (TUESDAY)</td>
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References


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

Form Instructions
1. Course request type: ☐ Undergraduate ☑ Graduate ☐ First Professional (ODS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Select or Type Department/Program Name
3. Course prefix, number and complete title of course: BIOL 611 MOLEC BIOL DIFF & DEV

Attaches below supporting statement for changes made in Items 4a through b, and c below:

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

5. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
6. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.
7. Is this an existing core curriculum course?
   □ Yes ☐ No
8. If grade type is changing for existing course, indicate the new grade type: ☑ Grade
   □ S/U □ P/F (CIPMD)
9. If this course will be stacked, please indicate the course number of the stacked course:
   ☑ I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vgp.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
10. Complete current course title and current course description:
    BIOL 611 - MOLECULAR BIOLOGY OF DIFFERENTIATION AND DEVELOPMENT. Major paradigms of eukaryotic gene regulation in terms of the role of gene expression during ontogeny and the effect of dysfunction in these processes on the epigenetic state.

11. Complete proposed course title and proposed course description (not to exceed 50 words):
    BIOL 611 - DEVELOPMENTAL GENETICS

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Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date 8-22-14
Department Head or Program Chair (Type Name & Sign) Date
(if cross-listed course)

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 07/14
Biology 611: Molecular Biology of Differentiation and Development

Bruce Riley (845-6494, briley@mail.bio.tamu.edu)
Jim Erickson (862-2204, jerickson@mail.bio.tamu.edu)

Tuesday and Thursday 9:30-11:00, room 117 Heldenfels.

Aug. 27
Overview of course objectives.
Introduction to historical perspectives and basic concepts.

Aug. 29
Intro to vertebrates
Nodal signaling and organizer activity in zebrafish.


Sep. 3
Wnt8 and coordination of AP and DV axes in zebrafish.


Sep. 5
Epithelial-Mesenchymal Transition (EMT) in development & cancer.


Sep. 10
Fgf, Bmp and DV patterning in zebrafish.


Sep. 12
Delta-Notch signaling, neurogenesis, and regulation by ubiquitin ligase.

Sep. 17
Somitogenesis and molecular clocks.


Sep. 19
HOX/HOM genes and AP patterning.


Sep. 24
Hedgehog signaling and axon guidance.


Sep. 26
Intro to Drosophila
Drosophila axis determination (AP axis): Transcriptional control of development.


Oct. 1
Drosophila axis determination (DV axis): Transcriptional control of development.


Oct. 3


Oct. 8
Translational control of fly development.


Oct. 10
Dissection of the EGFR pathway in Drosophila eye development.


Oct. 15
Branching morphogenesis and tracheal development in Drosophila.


Oct. 17
Sex Determination.


Oct. 22
MIDTERM EXAM.

Oct. 24
Introduction to C. elegans
Axis determination.

Oct. 29
Convergence of multiple signals in C. elegans vulval induction.


Oct. 31
Programmed cell death and the CED pathway in C. elegans.


Nov. 5
Developmental timing: Heterochrony and regulation by micro-RNA.


Nov. 7
Aging and longevity.


Nov. 12
Introduction to Arabidopsis
Auxin signaling & symmetry-breaking.


Nov. 14
Cell signaling and meristem maintenance.

Nov. 19
Intro to Evo-Devo
Descent with modification.


Nov. 21
The concept of developmental modules.


Nov. 26
Developmental constraints and phenotypic variation.

Syllabus part 2

Course Objectives:
1. Learn general principles and specific mechanisms of development.
2. Become familiar with the advantages and limitations of commonly studied genetic model organisms.
3. Gain experience in critical reading and interpretation of primary research articles.

Course Format for class meetings:
We will be discussing literature papers in the order listed on the syllabus. Papers are available online through the electronic journals page of the Medical Sciences Library (only through an on-campus computer or through dial-up modem/connection through the University). http://library.tamu.edu/ or http://msl.tamu.edu/MSL/InfoRsrc/ejournal2.html. The instructors will assume that you have read the paper PRIOR to arriving at the meeting and are ready to discuss the following issues:

- What was the previous information that led to the question being asked in the paper?
- What is the hypothesis being tested?
- How does the hypothesis relate to or extend what we have discussed earlier or what you may know from other classes?
- What is the design and method of the experiments?
- What were the assays used to examine developmental events?
- How did their results address or relate to their hypothesis?
- Did they prove their point to your satisfaction? If not, what would you have liked to see them do?

Grading: Your grade will be based on four criteria, all weighted equally. The four criteria are as follows:

1) Attendance and participation during class discussions. Asking questions, raising points, answering questions posed by the instructors or classmates and volunteering information are some ways in which you can participate. Of course full participation also requires thorough reading of all assigned papers.

2) Homework assignments. For the first half of the semester, each paper will be accompanied by a set of homework problems designed to make you think about the paper on a deeper level. Homework is DUE at the beginning of the class session in which the paper will be discussed. NO late homework assignments will be accepted.

Notes on plagiarism: When answering homework problems, you may draw from information gleaned from books, articles, etc., but do not simply transcribe (copy word-for-word) any material written by others. You must state all concepts in your own words. If you are describing a complex concept or a model obtained from another author (as opposed to a general principle), use appropriate citation practices. Plagiarism is a very serious offense that has become increasingly common in recent years. Any student caught plagiarizing will receive zero credit for that homework assignment. If there is a
second offense, the student will be summarily dismissed from the course (with an
automatic F) and may face expulsion from the university.

3) You will be responsible for presentation of papers for two class periods during the
semester. This means providing background, understanding the experimental approaches
and interpretations, critiquing experimental design or the authors’ conclusions, and being
able to lead the group discussion. The background given in the paper will NOT
generally be sufficient for your presentation. You should attempt to give a more in-depth
introduction to the paper. You are encouraged to discuss your assigned paper with one
of the instructors prior to your class presentation. Students are strongly advised to
prepare well in advance to allow sufficient time to confer with the instructor and make
necessary adjustments to your presentation. We suggest starting at least a week ahead of
time if you have not done this type of presentation before.

4) A written midterm exam will be conducted halfway through the semester. The exam
will test your understanding and recall of core concepts and developmental mechanisms
covered during the first half of the semester. These concepts and mechanisms will also
provide a foundation for class discussions in the second half of the semester.

Links that might be helpful:

http://flybase.bio.indiana.edu/

http://www.wormbase.org/

http://www.informatics.jax.org/

http://zfin.org

http://biocourse.bio.tamu.edu/faculty/pepper/awg/

(The last url has various links to sites related to Arabidopsis).
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Request submitted by (Department or Program Name): Electrical and Computer Engineering
2. Course prefix, number and complete title of course: ECEN 773 - Introduction to Nanophotonics

3. Change requested
   a. Prerequisite(s): From: Basic Physics. 370 electronic materials or equivalent. 322 electromagnetic or equivalent
   To: Instructor approval
   b. Withdrawal (reason): Graduate students unable to register with pre-requisites in place
   c. Cross-list with:
   Cross-listed courses require the signature of both departmental heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

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

5. Complete current course title and current catalog course description: Photonic bandgap optical circuitry, photonic crystal fiber; Visiible to infrared semiconductor quantum lasers; Semiconductor quantum dots. Plasmonic field enhancement, plasmonic optical circuitry, sub-wavelength optical lithography, negative refractive index and sub-wavelength optical imaging. Nano-structure characterization techniques, atomic force microscopy, near-field optical microscopy, scanning and transmission electron microscopy.

6. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Photonic bandgap optical circuitry, photonic crystal fiber; Visible to infrared semiconductor quantum lasers; Semiconductor quantum dots. Plasmonic field enhancement, plasmonic optical circuitry, sub-wavelength optical lithography, negative refractive index and sub-wavelength optical imaging. Nano-structure characterization techniques, atomic force microscopy, near-field optical microscopy, scanning and transmission electron microscopy.

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Approval recommended by:
C. Singh

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

Submitted to Coordinating Board by:

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 02/11
Course title and number: ECEN 773 Introduction to Nanophotonics
Term: Fall 2015

Course Description: Photonic bandgap optical circuitry, photonic crystal fiber; Visible to infrared semiconductor quantum lasers; Semiconductor quantum dots. Plasmonic field enhancement, plasmonic optical circuitry, sub-wavelength optical lithography, negative refractive index and sub-wavelength optical imaging. Nano-structure characterization techniques, atomic force microscopy, near-field optical microscopy, scanning and transmission electron microscopy.

Prerequisite: Instructor approval

Course Objectives:

The philosophy of this course is to teach nanophotonics such that both undergraduate and graduate students can appreciate and benefit from this course without invoking too much intricate details and calculations related to the various topics in nanophotonics. Graduate students can use this course to further their research and undergraduates who do not intend to pursue graduate studies can get an “executive type technical knowledge” in nanotechnology as they enter their profession. As an example, students will know the principle and applications (potential applications) of: Atomic force microscope, nanoscopy, two-photon nanolithography, molecular self-assembly, functionalized quantum dots, photonic bandgap materials, plasmonics, nonconventional solar to electric conversion, quantum cascade lasers etc.

Instructor Information

Name: Chin B. Su
Telephone number: (979) 845-7584
Email address: su@ece.tamu.edu
Office hours: Anytime
Office location: 312F Zach. (O), and 115E Zach. (Lab.)
# Textbook and/or Resource Material


## Grading Policies:

There is no homework or test for undergraduate students. Grades of undergraduate students depend on writing three separate reports outlining what students have learned. Each report should be three or more pages in length. Grades will be based on the coverage of the various topics and the professional level of presentation. Each report weighs 33.3% of the total grade of 100. Articles may also be assigned for students to read- articles such as the “The Invisible Cloak” to excite students’ imaginations and interests. For graduate students, their grades will depend on one midterm exam and one final exam; each weighing 50%. The grading scale is as follows: 88-100 A, 87-78 B, 77-68 C, 67-58 D, below 58 F.

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<td>1</td>
<td>Principle of photonic bandgap crystals</td>
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<td>2</td>
<td>Photonic optical circuitry, photonic crystal</td>
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<tr>
<td>3</td>
<td>Ultraviolet, blue, green, red, infrared semiconductor lasers</td>
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<td>4</td>
<td>Quantum confined structure, quantum cascade lasers, Molecular beam epitaxy (MBE), and MOCVD crystal growth techniques</td>
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<tr>
<td>5</td>
<td>Semiconductor quantum dots as fluorescent tags for medical research, chemical synthesis and functionalization of quantum dots</td>
</tr>
<tr>
<td>6</td>
<td>Excitonic effects for enhancement of solar-to-electrical conversion efficiency</td>
</tr>
<tr>
<td>7</td>
<td>Plasmonic optical circuitry/waveguides, surface plasmon resonance</td>
</tr>
<tr>
<td>8</td>
<td>Local field enhancement in metallic nanoparticles, array of nanoparticles, nanoshells, nanorods.</td>
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<tr>
<td>9</td>
<td>Surface enhanced Raman spectroscopy, subwavelength aperture plasmonics.</td>
</tr>
<tr>
<td>10</td>
<td>Negative index material for plasmonic imaging, the invisible cloak</td>
</tr>
<tr>
<td>11</td>
<td>Optical characterization techniques and methodologies, confocal microscopy, near-field microscopy (NSOM)</td>
</tr>
<tr>
<td>12</td>
<td>Atomic force microscopy, nanoscopy such as STED, iPALM</td>
</tr>
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<td>13</td>
<td>Optical lithography technique, two-</td>
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Other Pertinent Course Information

Americans with Disabilities 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 of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu

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

"An Aggie does not lie, cheat, or steal, or tolerate those who do."
Texas A&M University

Departmental Request for a Change in Course

Undergraduate • Graduate • Professional

Submit original form and attachments

Form Instructions

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

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

3. Course prefix, number and complete title of course: EPSY 621: Clinical Neuropsychology

4. Change requested
   a. Prerequisite(s): From: Approval of instructor and department head
      To: Graduate classification; approval of department head
   b. Withdrawal (reason):
   c. Cross-list with:

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

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

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

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

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

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

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

11. a. As currently in course inventory:

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   Approval recommended by:

   Victor Williams, Ph.D.
   Department Head or Program Chair (Type Name & Sign) Date
   George Cunningham, Ph.D.
   Chair, College Review Committee Date

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

   Submitted to Coordinating Board by:

   Mark Zoran, Ph.D.
   Chair, GC or UCC Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University

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

• Submit original form and attachments •

Form Instructions:
1. Course request type: [ ] Undergraduate  [x] Graduate  [ ] First Professional (MS, Ed.D, D.V.M, D.P.M)
2. Request submitted by (Department or Program Name): Department of Poultry Science
3. Course prefix, number and complete title of course: FSTC 611 Poultry Processing and Distribution Technology

Attach a brief supporting statement for changes made to items 4a through 4d and 10 below.

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

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

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

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

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

7. If this course will be stacked, please indicate the course number of the stacked course: FSTC 405

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


   Credit 4. Poultry and egg composition, mechanisms of poultry and egg quality preservation, effects of storage environments, time and product treatment; evaluation of commercial methods of product assembly, processing, distribution and quality control; evaluation of physical, microbiological, functional and chemical methods of quality determination. Cross-listed with POSC 611.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): FSTC 611 Poultry Further Processing. (3-0). Credit 3. Egg and poultry meat processing; gg markets, egg processing, grading, packaging, safety, quality and consumer acceptance of shell eggs; poultry meat processing (specifically turkeys and broilers), meat quality, markets, consumer acceptance of poultry meat and safety. Cross-listed with POSC 611.

10. As currently in course inventory:

   Prefix   Course #   Title (excluding punctuation)
   FSTC   611   POUL PROC & DIST TECH
   Lect. Lab Other SCH CIP and Fund Code Admin. Unit HCL Code Level
   3.00 2.00 4.00 0110010005 2120 0 0 3 6 3 2 6

b. Change to:

   Prefix   Course #   Title (excluding punctuation)
   FSTC   611   POULTRY FURTHER PROCESSING
   Lect. Lab Other SCH CIP and Fund Code Admin. Unit Acad. Year HCL Code Level
   3.00 0.00 3.00 0110010005 2120 15 - 16 0 0 3 6 3 2

Approval recommended by:
David J. Caldwell 9/23/14
Chair, College Review Committee 10/17/14

Clinton Allred 9/24/14
Dean of College 10/17/14

Submitted to Coordinating Board by:
Associate Director, Curricular Services 11/24/14

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 08/14
Supporting statement for change to Item 10 below.

The course title and course description for POSC/FSTC 611 and hours were changed to reflect the topics covered in POSC/FSTC 405 that was created for Fall 2015 and that POSC/FSTC 611 will be stacked with. POSC/FSTC 405 is a 3 hour course with no lab. POSC/FSTC 611 will cover the same topics as the undergraduate section with an additional class project for POSC/FSTC 611.
Fall 2015
Egg and Poultry Meat Processing Syllabus
POSC/FSTC 405
POSC/FSTC 611

Professor: Dr. Alvarado
Room: 338E Kleberg
Office: 979-845-4818
Email: calvarado@poultry.tamu.edu
Office Hours: by appointment

**Lecture Notes are required and can be purchased at Copy Corner (2307 Texas Ave S # B
College Station, TX 77840-4737 (979) 693-0640)

Texts (Highly Recommended):
  LLC. Boca Raton, Florida.
  Food Products Press, New York.

Resources:
The following are suggested sources for information during the semester and can be found at the
campus library:
- Egg and Poultry-Meat Processing (Stadelman et al., 1988)
- Food Microbiology (several available, Jay, Frazier)
  Journal, British Poultry Science, Journal of Food Science, Food Technology

NOTE: Cell phones and other technology usage are not allowed in class. There is no
exception to this rule! Notes will be provided via Copy Corner and additional lecture
material is also available online (e-learning). Additional resources are listed above and
certain additional information will also be provided online (e-learning).

Scheduled Meeting Times:
TBD

Course Description:
A course in egg and poultry meat processing. The focus of the first half of this course
will be egg markets, egg processing, grading, packaging, safety, quality and consumer
acceptance of shell eggs. The remainder of the course will focus on poultry meat processing
(specifically turkeys and broilers), meat quality, markets, consumer acceptance of poultry meat
and safety. Prerequisites: junior or senior classification or approval of instructor.
Learning Outcomes:
To provide the students with an appreciation and general knowledge of shell eggs and poultry meat processing and the overall importance of the poultry industry so they can be more informed consumers and employees in their chosen occupation. At the end of the course students will be able to:

- Understand and analyze the principles of poultry meat and egg processing
- Identify the complexities of poultry meat and egg processing markets
- Apply principles of poultry science to everyday life as consumers by discussing quality and consumer acceptance of eggs and poultry meat

Assessment of Objectives:

- Multiple choice, True/false, matching and mostly short answer and discussion exams will be used to gauge understanding of poultry science
- Interactive websites or additional readings followed by discussions or written assignments will be used to measure student understanding of material
- Written assignments to include experiences and reflections after viewing retail poultry meat and eggs in local grocery stores and supermarkets.

Course Requirements and Grading Scale:
Your grade in this course is based on the points accumulated from assignments, major exams, and the final examination. The grading scale will NOT be raised for any reason!! A bell curve or other preconceived grading scales will not be used in the course.

You (the student) will be responsible for all material covered in class and any assigned reading for each major examination. The final exam will be comprehensive in the scope of its coverage and ALL students must take the final exam.

POS/C 405 Class Grading Scale:

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<th>Major Exams (3)</th>
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<td>Assignments</td>
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<tr>
<td>Total</td>
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90-100% A  
80-89%  B  
70-79%  C  
60-69%  D  
59 and below  F

Extra Credit:
There will be no extra credit offered in this class.
POSC/FSTC 611 Project:
During the first week of classes, please send me a short biography of yourself. Please indicate your goals (working as well as life goals) and what interests you have in Poultry Science specifically related to foods (chicken, turkeys, eggs). This can be a personal interest or a work-related interest. I would like to come up with a project that can help you or your company and/or can help our department with extension material or teaching material related to poultry processing. Therefore, this project will be individualized to fit your interests and needs. The project final report will be due the final class period and will consist of 3-5 pages which include an introduction, problem or justification, results/discussion, and at least 5 references from scientific journals or trade journals. Details of the project and the report will be clarified with individual discussions with Dr. Alvarado.

POSC/FSTC 611 Class Grading Scale:

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<tr>
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</table>

90-100%  A
80-89%   B
70-79%   C
60-69%   D
59 and below  F

Attendance Policy:
Class attendance is viewed as the student’s responsibility and a reflection of maturity. Therefore, class attendance is HIGHLY RECOMMENDED! See http://student-rules.tamu.edu/rule07 for more information about attendance and make-up policies per Texas A&M rules.
Make-up Policy:

If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse.

The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://studentrules.tamu.edu/rule07). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class and appears on the university authorized activity list at https://studentactivities.tamu.edu/app/sponsauth/index

2) Death or major illness in a student’s immediate family.

3) Illness of a dependent family member.

4) Participation in legal proceedings or administrative procedures that require a student’s presence.

5) Religious holy day. NOTE: Prior notification is NOT required.

6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days:
      1. Student will provide a medical confirmation note from his or her medical provider within one week of the last date of
      2. the absence (see Student Rules 7.1.6.1)
         b) Injury or illness of less than three class days:
            3. Student will provide one or both of these (at instructor’s discretion), within one week of the last date of the absence:
               (i.) Texas A&M University Explanatory Statement for Absence from Class form available at http://attendance.tamu.edu or
               (ii.) Confirmation of visit to a health care professional affirming date and time of visit.

7) Required participation in military duties.

8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

9) 7.1.9 Mandatory participation as a student-athlete in NCAA-sanctioned competition.

10) 7.1.10 In accordance with Title IX of the Educational Amendments of 1972, Texas A&M University shall treat pregnancy (childbirth, false pregnancy, termination of pregnancy and recovery therefrom) and related conditions as a justification for an excused absence for so long a period of time as is deemed medically necessary by the student’s physician. Requests for excused absence related to pregnancy should be directed to the instructor; questions about Title IX should be directed to the University Title IX Coordinator.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or
emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

**Expectation of Students:**
Attendance, participation, willingness to learn, courtesy, interest, honesty

**Special Accommodations for Students:**
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).

**Academic Dishonesty and Conduct Rules:**
"An Aggie does not lie, cheat or steal, or tolerate those who do."
For additional information, please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)

Academic Integrity – 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. Anyone suspected of plagiarism will be dealt with according to University policy which may result in an “F” in the course and even expulsion. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Catalog.
Topics for Class Lectures:

Topic

-------------------EGGS-------------------

Week 1: Introduction to class
   The Egg Industry Overview
Week 2: Shell Egg Formation and Structure
   Shell Egg Processing and Composition
Week 3: Shell Egg Quality – Deterioration and Preservation
   Shell Eggs and Consumer acceptability
Week 4: Egg Food Safety (ASSIGNMENT 1 DUE)
EXAM 1

-------------------PROCESSING-------------------

Week 5: Poultry Meat Industry Overview
Week 6: Live Production Impacts
Week 7: Poultry Processing - Feed Withdrawal and Immobilization, Stunning,
   Slaughter, and Defeathering, Evisceration and Chilling, Cut-up, Portioning
Week 8: Packaging
EXAM 2

Week 9: Conversion of Muscle to Meat
Week 10: Quality Defects
Week 11: Consumer Acceptance of Poultry Meat (ASSIGNMENT 2 DUE)
EXAM 3

Week 12: Cooking Principles and Technology
Week 13: Food Safety
Week 14: Sanitation

FINAL EXAM (Comprehensive)

Dr. Alvarado reserves the right to change this schedule if needed, but advanced notice will be
given when possible to the class.
Texas A&M University  
Departmental Request for a Change in Course  
Undergraduate + Graduate + Professional  
- Submit original form and attachments -

**Form Instructions**

1. **Course request type:**  
   - [ ] Undergraduate  
   - [ ] Graduate  
   - [ ] First Professional (DIII, MD, JD, PharmD, DVM)

2. **Request submitted by (Department or Program Name):** George Bush School of Government and Public Service

3. **Course prefix, number and complete title of course:** INTA 669 Nuclear Security Threat Assessment and Analysis

4. **Change requested:**
   a. **Prerequisite(s):**  
      - From:  
      - To: 
   b. **Withdrawal (reason):** course was already submitted for a permanent number, INTA 669
   c. **Cross-list with:**
      - Cross-listed courses require the signature of both department heads.
   d. **Change in course title and description:** Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b. Attach a course syllabus.
   e. **Change in course number, contact hours (lab & lecture), and semester credit hours:** Complete item 11a and b. Attach a course syllabus.

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

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

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

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

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

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

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b. **Change to:**
   
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   | Lect   | Lab    | Other | SH | CIP and Unit Code | Admin Unit | RCE Code | Level |
   |        |        |       |    |                  |            |          |       |

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

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

   | Date |
   | 10/08/14 |

   | Date |
   | 10/13/14 |

   | Date |
   | 11/28/14 |

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

Curricular Services – 08/14
INTA 669 Nuclear Terrorism threat Assessment & Analysis was submitted for approval in April 2013 and was approved through the President's office in July 2013. The course is now listed in the 2014-15 Graduate Catalog.

The same course was submitted again in spring 2014 and approved as INTA 662 Nuclear Security Threat Assessment and Analysis. I am requesting that INTA 662 be omitted from the course inventory and that INTA 669 remain listed as the correct course. The course change for is attached.
Hi Janeen,

INTA 662 received full approval in May 2014. As I've mentioned before, courses going through the approval process (this calendar year) are available for Fall 2015. This course has been added to COMPASS effective Fall 2015.

From 2014 Tracking Chart


INTA 669 received full approval in July 2013. This course was added to COMPASS effective Fall 2014.

From 2013 Tracking Chart


Hope this helps.

Sandra Williams | Associate Director
Office of the Registrar, Division of Academic Affairs | Texas A&M University
0100 TAMU | College Station, Texas 77843

ph: 979-845-8201 | sandra-williams@tamu.edu | curricularservices.tamu.edu

It's Time for Texas A&M

From: Wood, Janeen H
Sent: Monday, October 06, 2014 7:29 PM
To: Widdison Kimberly D; Sandra Williams
Subject: INTA 662
Importance: High

INTA 662 Nuclear Threat Assessment is listed incorrectly in the drop down menu in ogapss.tamu.edu when selecting courses for degree plans. It is listed as INTA 669 but it was turned in and approved as INTA 662, this is how it should be listed. It is also listed in the graduate catalog incorrectly (graduate catalog, page 526). Can you tell me who I need to contact to make this correction? Thank you.

Janeen

Janeen H. Wood '90
Assistant to the Director
Sandra Williams | Associate Director
Office of the Registrar, Division of Academic Affairs | Texas A&M University
0100 TAMU | College Station, Texas 77843

ph: 979-845-8201 | sandra-williams@tamu.edu | curricularservices.tamu.edu

It's Time for Texas A&M

Sandra,
Sorry, answers keep bringing on questions. Can it be a simple memo from me?
Thanks.
Janeen

Janeen H. Wood '90
Assistant to the Director
Master's Program for International Affairs
The Bush School of Government & Public Service
4220 TAMU
College Station, TX 77843-4220
979-458-2276
979-845-4155 fax
http://bush.tamu.edu

Hi Janeen,

Please attach a brief statement for the change. Once you receive college committee and dean approval, it goes to Graduate Council. Send it to .... gradcounciladmin@tamu.edu

Hope this helps.
# Thesis/Dissertation Services 2014 Productivity Data

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### Yearly Productivity Data 2014

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

Form Instructions
1. Course request type:
   □ Undergraduate  □ Graduate  □ First Professional

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

3. Course prefix, number and complete title of course:
   MARS 625: GIS Modeling for Coastal Resources

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

   Consolidated courses require the signature of both department heads.

   d. Change in course title and description. Enter complete current course title and current course description in item 9: enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

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

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

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

8. Complete current course title and current catalog course description:
   MARS 625. GIS USE IN COASTAL RESOURCES. (1-3). Credit 2.
   Basic concepts of design, planning, and implementation of Geographical Information Systems; computer hardware and software evaluation; practical experience in data entry, analysis and production of spatial and characteristic data; use of maps and remotely sensed data as data.
   Prerequisite: Any computer science course or equivalent; graduate status or special approval.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   MARS 625. GIS USE IN COASTAL RESOURCES. (2-2). Credit 3. Basic concepts of design, planning, and implementation of Geographical Information Systems; computer hardware and software evaluation; practical experience in data entry, analysis and production of spatial and characteristic data; use of maps and remotely sensed data as data.
   Prerequisite: Any computer science course or equivalent; graduate status or approval of instructor.

10. as currently in course inventory:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-------------------------------|
    |        | 625      | GIS COASTAL RESOURCES         |
    | Lect. | Lab      | Other | SCH | CIP and Fund Code | Admin. Unit | FGCE Code | Level |
    | 1.00  | 3.00     | 0.00  | 2.00 | 1102020006       | 1810        | 01029846  | 6     |

b. Change to:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-------------------------------|
    |        | 625      | GIS COASTAL RESOURCES         |
    | Lect. | Lab      | Other | SCH | CIP and Fund Code | Admin. Unit | FGCE Code | Level |
    | 2.00  | 2.00     | 0.00  | 3.00 | 1102020006       | 1810        | 01029846  | 6     |

Approval recommended by:

Kyeong Park 10/27/14
Department Head or Program Chair (Type Name & Sign) Date

Chair, College Review Committee 10/27/14
Dean of College 11/21/14
Chair, GC or UCC 11/21/14

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

To whom it may concern-

As outlined above, I am requesting a change in credit hours for MARS 625: GIS Modeling for Coastal Resources. The request increases the SCHs from 2 to 3 hours. The increase to 3 hours will better reflect the course content, contact hours, and overall expectations of students enrolled in the course.

If I can answer any additional questions regarding this request please do not hesitate to contact me.

Thanks for your time and consideration.

Wesley E. Highfield, Ph.D.
Assistant Professor
Department of Marine Sciences
Texas A&M University at Galveston
Galveston, TX 77553-6175
Phone: 409-740-4726
e-mail: highfield@tamug.edu

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University

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

Submit original form and attachments

MARS 625: GIS Modeling for Coastal Resources
FALL 2014
Tuesday 11:00 – 2:50, SAGC 600

Instructor: Dr. Wesley Highfield
Office: OCSB 364
Office Hours: By appointment/request
E-mail: highfiew@tamug.edu
Phone: 409-740-4726

Teaching Assistant: Ms. Helen Walters
e-mail: waitersh@tamu.edu

Course Description
This is an introductory course in geographic information systems (GIS). The course is concerned with development of thinking in terms of GIS for the management of coastal and other natural resource data. The emphasis will be on learning the fundamentals and application of GIS. To do this requires both software expertise and critical thinking. This course will require a time commitment, willingness to think/problem solve, and attention to detail.

Required Text
There is no required text. You will need to use the laboratory computers with GIS software. I have also secured a free, one-year license of ArcGIS for each of you enrolled in the class that can be installed on your personal computer (PC only—sorry Mac users). Much of the information needed for the software implementation of a GIS can be found on the web and/or through the software’s help menu. Two optional texts are Getting to Know ArcGIS Desktop, a tutorial workbook and The GIS 20: Essential Skills, both a workbook and reference text. You might wish to purchase one or both, but neither is required.

Course Requirements
1) Class attendance and participation
2) Weekly laboratory exercises
3) A final exam to determine your mastery of GIS, its fundamental usage, and spatial problem solving within a GIS.
4) A comprehensive final project

Grading
The weighting of course grades are as follows:
• Weekly lab exercises 35%
• Final project 35%
• Final exam 30%

I will follow the traditional grading scale of: A=90-100, B=80-89, C=70-79, D=60-69, F=<60

Questions regarding this form should be directed to Sandra Williams at 845-8210 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Weekly lab exercises will be assigned and submitted via e-campus. If you are unsure how to navigate e-learning please familiarize yourself with the interface. You will typically have one week to complete and submit the weekly assignments and late work will not be accepted without an approved excuse.

As demonstrated above, the final project is a large proportion of your grade. I would strongly suggest that you to begin thinking about this early in the course, preferably more than a week before the proposals are due and definitely more than a week before the project is due. You will be given a week of class time to work on your project with feedback/help, but this should be a time to finalize/troubleshoot not begin your project work. The bar for projects has been set high by previous courses.

Tentative Topics by Week

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<td>Spatial Data / Data Structures and Types</td>
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<td>9-16</td>
<td>Coordinate Systems, Projections, and Transformations</td>
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<td>Creating Data: Vector Data Development</td>
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<td>Joining Data: Table and Spatial Joins</td>
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<td>Vector Analysis II: Geocoding (Project Proposals Due)</td>
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<td>Raster Analysis I: Environments &amp; Map Algebra</td>
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<td>Raster Analysis II: Interpolations, Etc.</td>
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<td>Imagery: Image Registration and Band Composites</td>
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<td>Wrap-Up and Problem Solving / Project Work</td>
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<td>Final Exam: 11am-1pm</td>
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Expected Learning Outcomes
1. Enter and display raw data (latitude/longitude) coordinates to a GIS map
2. Couple non-spatial attribute data to spatial data
3. Understand various GIS data structures/formats
4. Obtain, import and use GIS data from various secondary sources
5. Convert between data types/formats as needed
6. Enter raw imagery (not georeferenced) into GIS and rectify to an existing layer
7. Develop the knowledge to understand and perform spatial queries
8. Develop the knowledge to understand Boolean logic and perform attribute queries
9. Develop visualization techniques to represent trends and quantities
10. Create new shapefiles through geocoding and heads-up digitizing
11. Understand basic operations of geoprocessing and vector-based GIS analysis
12. Understand basic grid operations and raster-based GIS analysis
13. Use GIS as the foundation for an original project that demonstrates mastery of GIS

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Americans with Disabilities Act (ADA) Policy Statement
The Americans with Disabilities Act (ADA) is a federal non-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this law 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 Counseling Office, Seibel Student Center, or call (409)740-4587.

Aggie Honor System
Aggie Honor Code: "An Aggie does not lie, cheat, or steal or tolerate those who do."
Upon accepting admission to Texas A&M University at Galveston, 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 TAMUG community from the requirements of the process of the TAMUG Honor System.

Plagiarism
Plagiarism consists of passing off as one’s own ideas, words, writings, etc., which belong to another. 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." I take academic dishonesty very seriously and if discover, I WILL pursue it.

Statement on Absences
Information concerning absences is contained in the University Student Rules Section 7 (see: http://www.tamug.edu/student/Academic%20Rules/Rule%2007.pdf). The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments.

Statement on the Family Educational Rights and Privacy Act (FERPA)
FERPA is a federal law designed to protect the privacy of educational records by limiting access to these records, to establish the right of students to inspect and review their educational records and to provide guidelines for the correction of inaccurate and misleading data through informal and formal hearings. To obtain a listing of directory information or to place a hold on any or all of this information, please consult the Admissions & Records Office. Items that can never be identified as public information are a student’s social security number or institutional identification number, citizenship, gender, grades, GPR or class schedule. All efforts will be made in this class to protect your privacy and to ensure confidential treatment of information associated with or generated by your participation in the class.

Statement on Course Evaluations
The PICA (Personalized Instructor/Course Appraisal) is an online course evaluation for Texas A&M. We highly encourage you to complete an evaluation for each course on your schedule. Student input is a critical component used to improve curriculum and teaching. Each faculty member values your input to improve his/her methodology. Your comments can also significantly impact the mix and membership of faculty. The PICA website is available at http://pica.tamu.edu, your howdy portal, or by scanning
Texas A&M University

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

- Submit original form and attachments -

Form Instructions:
1. Course request type: ☐ Undergraduate ☑ Graduate ☐ First Professional (E.E., M.E., J.J. PharmD, D.V.M.)
2. Request submitted by (Department or Program Name): Department of Poultry Science
3. Course prefix, number and complete title of course: POSC 611 Poultry Processing and Distribution Technology

Which a brief supporting statement for changes made between 4th and 10th below.

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

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

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

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

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

7. If this course will be stacked, please indicate the course number of the stacked course: POSC 405

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


   Credit 4. Poultry and egg composition, mechanisms of poultry and egg quality preservation, effects of storage environments, time and product treatment; evaluation of commercial methods of product assembly, processing, distribution and quality control; evaluation of physical, microbiological, functional and chemical methods of quality determination. Cross-listed with FSTC 611.

   Complete proposed course title and proposed catalog course description (not to exceed 50 words): POSC 611 Poultry Further Processing. (3-0). Credit 3. Egg and poultry meat processing markets, egg processing, grading, packaging, safety, quality and consumer acceptance of shell eggs; poultry meat processing (specifically turkeys and broilers), meat quality, markets, consumer acceptance of poultry meat and safety. Cross-listed with FSTC 611.

9. As currently in course inventory:

   Prefix  | Course # | Title (excluding punctuation) |
   ------- | -------- | ------------------------------ |
   POSC    | 611      | POUL PROC & DIST TECH         |

   Lect | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | HEC Code | Level |
   3.00 | 2.00 | 4.00 | 0110010005 | 2350 | 0 0 3 6 3 2 6 |

   b. Change to:

   Prefix  | Course # | Title (excluding punctuation) |
   ------- | -------- | ------------------------------ |
   POSC    | 611      | POUL FURTHER PROCESSING       |

   Lect | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Adv. Year | HEC Code |
   3.00 | 0.00 | 3.00 | 0110010005 | 2350 | 15 - 16 0 0 3 6 3 2 |

   Approval recommended by:

   David J. Caldwell
   Department Head or Program Chair (Type Name & Sign) Date 9/23/14

   Chair, College Review Committee Date 10/17/14

   Clinton Alfred
   Department Head or Program Chair (Type Name & Sign) Date 9/23/14

   Dean of College Date 12/17/14

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services Date

   Chair, GO or UCC Date 11/21/14

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 08/14
Supporting statement for change to Item 10 below.

The course title and course description for POSC/FSTC 611 and hours were changed to reflect the topics covered in POSC/FSTC 405 that was created for Fall 2015 and that POSC/FSTC 611 will be stacked with. POSC/FSTC 405 is a 3 hour course with no lab. POSC/FSTC 611 will cover the same topics as the undergraduate section with an additional class project for POSC/FSTC 611.
Fall 2015
Egg and Poultry Meat Processing Syllabus
POSC/FSTC 405
POSC/FSTC 611

Professor: Dr. Alvarado
Room: 338E Kleberg
Office: 979-845-4818
Email: calvarado@poultry.tamu.edu
Office Hours: by appointment

**Lecture Notes are required and can be purchased at Copy Corner (2307 Texas Ave S  # B
College Station, TX 77840-4737 (979) 693-0640)

Texts (Highly Recommended):
  LLC. Boca Raton, Florida.
  Food Products Press, New York.

Resources:
The following are suggested sources for information during the semester and can be found at the
 campus library:
- *Egg and Poultry-Meat Processing* (Stadelman et al., 1988)
- *Food Microbiology* (several available, Jay, Frazier)
  Journal, British Poultry Science, Journal of Food Science, Food Technology

NOTE: Cell phones and other technology usage are not allowed in class. There is no
exception to this rule! Notes will be provided via Copy Corner and additional lecture
material is also available online (e-learning). Additional resources are listed above and
certain additional information will also be provided online (e-learning).

Scheduled Meeting Times:
TBD

Course Description:
A course in egg and poultry meat processing. The focus of the first half of this course
will be egg markets, egg processing, grading, packaging, safety, quality and consumer
acceptance of shell eggs. The remainder of the course will focus on poultry meat processing
(especially turkeys and broilers), meat quality, markets, consumer acceptance of poultry meat
and safety. Prerequisites: junior or senior classification or approval of instructor.
Learning Outcomes:
To provide the students with an appreciation and general knowledge of shell eggs and poultry meat processing and the overall importance of the poultry industry so they can be more informed consumers and employees in their chosen occupation. At the end of the course students will be able to:

- Understand and analyze the principles of poultry meat and egg processing
- Identify the complexities of poultry meat and egg processing markets
- Apply principles of poultry science to everyday life as consumers by discussing quality and consumer acceptance of eggs and poultry meat

Assessment of Objectives:
- Multiple choice, True/false, matching and mostly short answer and discussion exams will be used to gauge understanding of poultry science
- Interactive websites or additional readings followed by discussions or written assignments will be used to measure student understanding of material
- Written assignments to include experiences and reflections after viewing retail poultry meat and eggs in local grocery stores and supermarkets.

Course Requirements and Grading Scale:
Your grade in this course is based on the points accumulated from assignments, major exams, and the final examination. The grading scale will NOT be raised for any reason!! A bell curve or other preconceived grading scales will not be used in the course.

You (the student) will be responsible for all material covered in class and any assigned reading for each major examination. The final exam will be comprehensive in the scope of its coverage and ALL students must take the final exam.

POSC/FSTC 405 Class Grading Scale:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Major Exams (3)</td>
<td>60%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
<tr>
<td>Assignments</td>
<td>10%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>

90-100%  A
80-89%   B
70-79%   C
60-69%   D
59 and below  F

Extra Credit:
There will be no extra credit offered in this class.
**POSC/FSTC 611 Project:**
During the first week of classes, please send me a short biography of yourself. Please indicate your goals (working as well as life goals) and what interests you have in Poultry Science specifically related to foods (chicken, turkeys, eggs). This can be a personal interest or a work-related interest. I would like to come up with a project that can help you or your company and/or can help our department with extension material or teaching material related to poultry processing. Therefore, this project will be individualized to fit your interests and needs. The project final report will be due the final class period and will consist of 3-5 pages which include an introduction, problem or justification, results/discussion, and at least 5 references from scientific journals or trade journals. Details of the project and the report will be clarified with individual discussions with Dr. Alvarado.

**POSC/FSTC 611 Class Grading Scale:**

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
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<td>60-69%</td>
</tr>
<tr>
<td>F</td>
<td>59 and below</td>
</tr>
</tbody>
</table>

**Attendance Policy:**
Class attendance is viewed as the student’s responsibility and a reflection of maturity. Therefore, class attendance is HIGHLY RECOMMENDED! See [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07) for more information about attendance and make-up policies per Texas A&M rules.
Make-up Policy:

If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse.

The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://studentrules.tamu.edu/rule07). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class and appears on the university authorized activity list at https://studentactivities.tamu.edu/app/sponsor/index

2) Death or major illness in a student's immediate family.

3) Illness of a dependent family member.

4) Participation in legal proceedings or administrative procedures that require a student's presence.

5) Religious holy day. NOTE: Prior notification is NOT required.

6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days:
      1. Student will provide a medical confirmation note from his or her medical provider within one week of the last date of
      2. the absence (see Student Rules 7.1.6.1)
   b) Injury or illness of less than three class days:
      3. Student will provide one or both of these (at instructor’s discretion), within one week of the last date of the absence:
         (i.) Texas A&M University Explanatory Statement for Absence from Class form available at http://attendance.tamu.edu or
         (ii.) Confirmation of visit to a health care professional affirming date and time of visit.

7) Required participation in military duties.

8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

9) 7.1.9 Mandatory participation as a student-athlete in NCAA-sanctioned competition.

10) 7.1.10 In accordance with Title IX of the Educational Amendments of 1972, Texas A&M University shall treat pregnancy (childbirth, false pregnancy, termination of pregnancy and recovery therefrom) and related conditions as a justification for an excused absence for so long a period of time as is deemed medically necessary by the student’s physician. Requests for excused absence related to pregnancy should be directed to the instructor; questions about Title IX should be directed to the University Title IX Coordinator.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or
emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

**Expectation of Students:**
Attendance, participation, willingness to learn, courtesy, interest, honesty

**Special Accommodations for Students:**
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).

**Academic Dishonesty and Conduct Rules:**
“An Aggie does not lie, cheat or steal, or tolerate those who do.”
For additional information, please visit: [http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)

Academic Integrity – 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. Anyone suspected of plagiarism will be dealt with according to University policy which may result in an “F” in the course and even expulsion. If you have any questions regarding plagiarism, please consult the latest issue of the Texas A&M University Catalog.
Topics for Class Lectures:

Topic

------------------------EGGS------------------------
Week 1: Introduction to class
   The Egg Industry Overview
Week 2: Shell Egg Formation and Structure
   Shell Egg Processing and Composition
Week 3: Shell Egg Quality – Deterioration and Preservation
   Shell Eggs and Consumer acceptability
Week 4: Egg Food Safety (ASSIGNMENT 1 DUE)
EXAM 1

------------------------PROCESSING------------------------
Week 5: Poultry Meat Industry Overview
Week 6: Live Production Impacts
Week 7: Poultry Processing - Feed Withdrawal and Immobilization, Stunning,
   Slaughter, and Defeathering, Evisceration and Chilling, Cut-up, Portioning
Week 8: Packaging
EXAM 2

Week 9: Conversion of Muscle to Meat
Week 10: Quality Defects
Week 11: Consumer Acceptance of Poultry Meat (ASSIGNMENT 2 DUE)
EXAM 3

Week 12: Cooking Principles and Technology
Week 13: Food Safety
Week 14: Sanitation

FINAL EXAM (Comprehensive)

Dr. Alvarado reserves the right to change this schedule if needed, but advanced notice will be
given when possible to the class.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions:
1. Course request type:
   ■ Undergraduate  □ Graduate  □ First Professional (DDS, MD, JD, PharmD, DVM)

2. Request submitted by (Department or Program Name): Department of Poultry Science

3. Course prefix, number and complete title of course: POSC 628 Advanced Poultry Meat Processing

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

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

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

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

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

7. If this course will be stacked, please indicate the course number of the stacked course: POSC 406

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

9. Complete current course title and catalog course description: POSC 628 Advanced Poultry Meat Processing. Farm-to-table review of quality and safety effects of processing steps converting chicken broilers into poultry meat and derived products; discussion of current research and events influencing the poultry processing industry; preparation of research proposals addressing needs in the field. Prerequisite: Graduate classification.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): POSC 628 Advanced Poultry Further Processing. The science and practice of value-added products: physical, chemical, microbiological, and functional characteristics of value-added poultry products as they affect consumer acceptance, efficiency of production, and regulatory approval.

11. a. As currently in course inventory:

   Prefix  Course #  Title (excluding punctuation)
   POSC  628  ADV POUltRY MEAT PROCESS

   Lect.  Lab  Other  SCH  CP and Fund Code  Admin Unit EIC Code  Level
   3.00  0.00  3.00  0110010005  2350  0 0 3 6 3 2 6

   b. Change to:

   Prefix  Course #  Title (excluding punctuation)
   POSC  628  ADV POULT MEAT FURTHER PROCESS

   Lect.  Lab  Other  SCH  CP and Fund Code  Admin Unit EIC Code  Level
   3.00  0.00  3.00  0110010005  2350  15 16 0 0 3 6 3 2

   Approval recommended by:

   David J. Caldwell  9/23/14
   Department Head or Program Chair (Type Name & Sign)  Date

   Chair, College Review Committee  10/17/14
   Date

   Dean of College  10/17/14
   Date

   Chair, GC or UCC  11/21/14
   Date

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Support statement for changes being made to POSC 628

The changes made to POSC 628 in Item 10 are a reflection of the changes in course description that were made to POSC 406 which this course is stacked with. This change in course title and description covers the topics that will be covered in POSC 406 but at a graduate level.
Spring 2016
Poultry Further Processing
Syllabus
POSC/FSTC 406
POSC 628

Professor: Dr. Alvarado
Room: 338E Kleberg
Office: 979-845-4818
Email: calvarado@poultry.tamu.edu
Office Hours: by appointment

**Lecture Notes are required and can be purchased at Copy Corner (2307 Texas Ave S  # B
College Station, TX 77840-4737 (979) 693-0640)

Texts (Highly Recommended):
  LLC. Boca Raton, Florida.
  Food Products Press, New York.

Resources:
The following are suggested sources for information during the semester and can be found at the
campus library:
- Egg and Poultry-Meat Processing (Stadelman et al., 1988)
- Poultry Products Technology (Mountney, 1989) and
- Meat Science (Lawrie)
- Principles of Meat Science (Forrest and Judge)
- Food Microbiology (several available, Jay, Frazier)
- The Microbiology of Poultry Meat Products (Cunningham and Cox)
  Journal, British Poultry Science, Journal of Food Science, Food Technology

NOTE: Cell phones and other technology usage are not allowed in class. There is no
exception to this rule! Notes will be provided via Copy Corner and additional lecture
material is also available online (e-learning). Additional resources are listed above and
certain additional information will also be provided online (e-learning).

Scheduled Meeting Times:
TBD

Laboratory:
Tuesday or Wednesday 3:00-4:50 PM; Room 025 Kleberg or Poultry Farm on 2818 and Luther
St. You MUST attend your scheduled time.
Course Description:
The science and practice of value-added products; physical, chemical, microbiological, and functional characteristics of value-added poultry products as they affect consumer acceptance, efficiency of production, and regulatory approval. Prerequisites: POSC 405 and junior or senior classification or approval of instructor.

Learning Outcomes:
To provide the students with an appreciation and general knowledge of poultry meat and egg products and the overall importance of the poultry industry so they can be more informed consumers and employees in their chosen occupation. At the end of this course, students will be able to:

- Understand and analyze the principles of poultry meat and egg further processing
- Identify the complexities of poultry meat and egg further processing markets
- To apply principles of poultry science to everyday life by conducting hands-on further processing techniques

Assessment of Objectives:
- Multiple choice, True/false, matching and mostly short answer and discussion exams will be used to gauge understanding of poultry science
- Interactive websites or additional readings followed by discussions or written assignments will be used to measure student understanding of material
- Written laboratory assignments with an introduction, methods, results and discussions (including data interpretation) will be required to ensure hands-on knowledge is obtained and related to lecture material

Course Requirements and Grading Scale:
Your grade in this course is based on the points accumulated in the laboratory, major exams, and the final examination. The grading scale will NOT be raised for any reason!! A bell curve or other preconceived grading scales will not be used in the course.

You (the student) will be responsible for all material covered in class and any assigned reading for each major examination. The final exam will be comprehensive in the scope of its coverage and ALL students must take the final exam.

Class Grading Scale for POSC 406/TSTC 406:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
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</table>

<table>
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<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Exams (3)</td>
<td>30%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>Laboratory</td>
<td>50%</td>
</tr>
<tr>
<td>Total</td>
<td>100%</td>
</tr>
</tbody>
</table>
**Class Grading Scale for POSC 628:**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major Exams (3)</td>
<td>60%</td>
</tr>
<tr>
<td>Project</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
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</tr>
<tr>
<td>Total</td>
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<table>
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<tr>
<td>59 and below</td>
<td>F</td>
</tr>
</tbody>
</table>

**Extra Credit:**

There will be no extra credit offered in this class.

**POSC 628 Project:**

During the first week of classes, please send me a short biography of yourself. Please indicate your goals (working as well as life goals) and what interests you have in Poultry Science specifically related to value-added poultry products (chicken, turkeys, eggs). This can be a personal interest or a work-related interest. I would like to come up with a project that can help you or your company and/or can help our department with extension material or teaching material related to value-added poultry products. Therefore, this project will be individualized to fit your interests and needs. The project final report will be due the final class period and will consist of 3-5 pages which include an introduction, problem or justification, results/discussion, and at least 5 references from scientific journals or trade journals. Details of the project and the report will be clarified with individual discussions with Dr. Alvarado.

**Attendance Policy:**

Class attendance is viewed as the student’s responsibility and a reflection of maturity. Therefore, class attendance is HIGHLY RECOMMENDED! See [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07) for more information about attendance and make-up policies per Texas A&M rules.

**Make-up Policy:**

If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. If the instructor has a regularly scheduled make up exam, students are expected to attend unless they have a university approved excuse.

The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details ([http://studentrules.tamu.edu/rule07](http://studentrules.tamu.edu/rule07)). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify
and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

1) Participation in an activity that is required for a class and appears on the university authorized activity list at https://studentactivities.tamu.edu/app/sponsauth/index
2) Death or major illness in a student's immediate family.
3) Illness of a dependent family member.
4) Participation in legal proceedings or administrative procedures that require a student's presence.
5) Religious holy day. NOTE: Prior notification is NOT required.
6) Injury or illness that is too severe or contagious for the student to attend class.
   a) Injury or illness of three or more class days:
      1. Student will provide a medical confirmation note from his or her medical provider within one week of the last date of
      2. the absence (see Student Rules 7.1.6.1)
   b) Injury or illness of less than three class days:
      3. Student will provide one or both of these (at instructor's discretion), within one week of the last date of the absence:
         (i.) Texas A&M University Explanatory Statement for Absence from Class form available at http://attendance.tamu.edu or
         (ii.) Confirmation of visit to a health care professional affirming date and time of visit.
7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.
9) 7.1.9 Mandatory participation as a student-athlete in NCAA-sanctioned competition.
10) 7.1.10 In accordance with Title IX of the Educational Amendments of 1972, Texas A&M University shall treat pregnancy (childbirth, false pregnancy, termination of pregnancy and recovery therefrom) and related conditions as a justification for an excused absence for so long a period of time as is deemed medically necessary by the student's physician. Requests for excused absence related to pregnancy should be directed to the instructor; questions about Title IX should be directed to the University Title IX Coordinator.

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

Expectation of Students:
Attendance, participation, willingness to learn, courtesy, interest, honesty

Special accommodations for Students:
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment
that provides for reasonable accommodation of their disabilities. If you believe you have a
disability requiring an accommodation, please contact Disability Services, in Cain Hall, Room
B118, or call 845-1637. For additional information visit http://disability.tamu.edu.

**Academic Dishonesty and Conduct Rules:**

"An Aggie does not lie, cheat or steal, or tolerate those who do."
For additional information, please visit: http://aggiehonor.tamu.edu

Academic Integrity – 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. Anyone suspected of plagiarism will be dealt with according to University policy
which may result in an “F” in the course and even expulsion. If you have any questions regarding
plagiarism, please consult the latest issue of the Texas A&M University Catalog.
Topics for Class Lectures:

---EGGS---

Week 1: Introduction to class  
   Further Processed Products – Gelation, Emulsion and Foam  
Week 2: Breakers and Liquid Egg Preservation – Pasteurization, Drying, Freezing  
Week 3: Egg Food Safety  
EXAM 1

---MEAT---

Week 4: Poultry Meat Industry Overview  
   Consumer Demands of RTE products  
Week 5: Live Production Impacts  
   Conversion of Muscle to Meat  
Week 6: Meat Products and Protein Functionality  
EXAM 2

Week 7: Emulsion Products and Mechanical Deboning  
Week 8: Functional Ingredients  
Week 9: Batter and Breading  
Week 10: Further Processed Poultry Meat Quality  
Week 11: Curing and Smoking  
   Cooking Principles and Technology  
EXAM 3

Week 12: Packaging  
Week 13: Food Safety  
Week 14: Sanitation

FINAL EXAM (Comprehensive)

Dr. Alvarado reserves the right to change this schedule if needed, but advanced notice will be given when possible to the class.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ∙ Graduate ∙ Professional
Submit original form and attachments

Form Instructions
1. Course request type:
   - Undergraduate [X]
   - Graduate [ ]
   - First Professional [ ]

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

3. Course prefix, number and complete title of course:
   - SPSY 612. Individual Assessment of Children's Intelligence

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

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

   d. Change course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

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

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

7. If this course will be stacked, please indicate the course number of the stacked course:
   - [ ]

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

9. Complete current course title and current catalog course description:
   - Individual Assessment of Children's Intelligence: Educational and clinical applications of individual assessment; diagnostic measures of intelligence, language abilities, perception and achievement; videotaping of student test administration is required for purposes of supervision and self-evaluation. Limited to 12 students per semester.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    - Individual Assessment of Children's Intelligence: Educational and clinical applications of individual assessment; diagnostic measures of intelligence, achievement, language, and perception; videotaping of student test administration is required for purposes of supervision and self-evaluation. Limited to 12 students per semester.

11. a. As currently in course inventory:

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   b. Change to:

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   Approval recommended by:
   - Victor Wilson, Ph.D.
   - Department Head or Program Chair (Type Name & Sign) Date

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

   Submitted to Coordinating Board by:
   - George Cunningham, Ph.D.
   - Chair, College Review Committee

   Date

   George Cunningham, Ph.D.
   Dean of College
   Date

   Mark Zoran, Ph.D.
   Chair, GC or UCC
   Date

   Effective Date

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University

Departmental Request for a Change in Course

Undergraduate • Graduate • Professional

Submit original form and attachments

Form Instructions:

1. Course request type:  □ Undergraduate  □ Graduate  □ First Professional  (M.D., M.D., Pharm.D., D.V.M.)
2. Request submitted by (Department or Program Name):  Department of Educational Psychology
3. Course prefix, number and complete title of course:  SPSY 614; Integrated Assessment Practicum

4. Change requested:
   a. Prerequisite(s): From:  SPSY 612; approval of department head.  To:  SPSY 612; SPSY 617; approval of department head.
   b. Withdrawal (reason):
   c. Cross-list with:

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

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

5. Is this an existing core curriculum course?

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

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

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

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

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

11. a. As currently in course inventory:

   Prefix  Course #  Title (excluding punctuation)

   Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE Code

   b. Change to:

   Prefix  Course #  Title (excluding punctuation)

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

   Approval recommended by:
   Victor Williams, Ph.D.  Department Head or Program Chair (Type Name & Sign)  Date

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

   Submitted to Coordinating Board by:
   Associate Director, Curricular Services

   George Cunningham, Ph.D.  Chair, College Review Committee  Date
   George Cunningham, Ph.D.  Dean of College  Date
   Mark Zoran, Ph.D.  Chair, GC or UCC  Date

   Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
   Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate ▪ Graduate ▪ Professional
▪ Submit original form and attachments ▪

Form Instructions
1. Course request type: [ ] Undergraduate [ ] Graduate [ ] First Professional (MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Educational Psychology
3. Course prefix, number and complete title of course: SPSY 617: Emotional Disturbance in Children

Attach a brief supporting statement for changes made to items 4a through 4d and 10 below.

4. Change requested
   a. Prerequisite(s): From: SPSY 610; SPSY 612. To: SPSY 610; SPSY 612; SPSY 642
   b. Withdrawal (reason): 
   c. Cross-list with: 

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

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

5. Is this an existing core curriculum course? [ ] Yes [ ] No
6. If grade type is changing for existing course, indicate the new grade type: [ ] Grade [ ] S/U [ ] P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: [ ]

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

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

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

10. Submitted to Coordinating Board by:

   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14

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Approval recommended by:
Victor Williams, Ph.D. Department Head or Program Chair (Type Name & Sign) Date

George Cunningham, Ph.D. Chair, College Review Committee Date

George Cunningham, Ph.D. Dean of College Date

Mark Zoran, Ph.D. Chair, GC or UCC Date

I certify that this form is complete and ready to be forwarded to the Board.

[Signature]

Date

Level 10201

Effective Date

OCT 22 2014

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

Form Instructions  

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

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

3. Course prefix, number and complete title of course:  
   SPSY 628: Consultation Theory and Techniques  

4. Change requested:  
   - Prerequisite(s)  
     - From: SPSY 612 and SPSY 614 or approval of instructor; approval of department head.  
     - To: Approval of instructor; approval of department head.  
   - Withdrawal (reason):  
   - Cross-list with:  

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

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

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

8. Is this an existing core curriculum course?  
   - Yes  
   - No  

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

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

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

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

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

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Approval recommended by:  
Victor Williams, Ph.D.  
Department Head or Program Chair (Type Name & Sign)  
Date: Sep 2014  

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

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

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu  
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: □ Undergraduate □ Graduate ■ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Educational Psychology
3. Course prefix, number and complete title of course: SPSY 638: Systems Consultation and Prevention Science

4. Change requested
   a. Prerequisite(s): From: \___________________________\ To: \___________________________\ Approval of department head.
   b. Withdrawal (reason):
   c. Cross-list with:
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
   f. Is this an existing core curriculum course?
   g. If grade type is changing for existing course, indicate the new grade type: □ Yes □ No
   h. If this course will be stacked, please indicate the course number of the stacked course:
   i. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

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

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

7. Approval recommended by:
   Victor Williams, Ph.D.
   Department Head or Program Chair (Type Name & Sign) Date

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

9. Submitted to Coordinating Board by:
   Associate Director, Curricular Services

10. Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
    Curricular Services – 08/14
Form Instructions

1. Course request type: □ Undergraduate □ Graduate □ First Professional (E.g. MD, JD, PharmD, DVM)
2. Request submitted by: (Department or Program Name): Department of Educational Psychology
3. Course prefix, number and complete title of course: SPSY 641: Child Therapy for School Behavior Problems

4. Change requested
   a. Prerequisite(s): From: _________________ To: _________________
   b. Withdrawal (reason): _________________
   c. Cross-list with: _________________
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.
5. Is this an existing core curriculum course? □ Yes □ No
6. If grade type is changing for existing course, indicate the new grade type: □ Grade □ S/U □ P/F (CLMD)
7. If this course will be stacked, please indicate the course number of the stacked course: □ 1 verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controle-basics-for-distance-education).
8. Complete current course title and current catalog course description:

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

11. a. As currently in course inventory:

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   b. Change to:

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   Approval recommended by:

   Victor Willson, Ph.D.  [Signature]
   Department Head or Program Chair (Type Name & Sign) Date

   George Cunningham, Ph.D.  [Signature]
   Chair, College Review Committee Date

   George Cunningham, Ph.D.
   Dean of College Date

   Mark Zoran, Ph.D.  [Signature]
   Chair, GC or UCC Date

   Submitted to Coordinating Board by:

   [Signature]
   Associate Director, Curricular Services Date Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:
   ☐ Undergraduate  ☑ Graduate  ☐ First Professional (MD, DDS, MD, JD, PharmD, DVM)
   Department of Educational Psychology

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

3. Course prefix, number and complete title of course:
   SPSY 657: Bilingual Psychoeducational Assessment

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

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

   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

5. Is this an existing core curriculum course?

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

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

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

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

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

10. Submit to Coordinating Board by:
   Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions

1. Course request type: ☐ Undergraduate ☑️ Graduate ☐ First Professional (M.S., Ph.D., J.D., Pharm.D., D.V.M.)

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

3. Course prefix, number and complete title of course: SPSY 683: Field Experience/Externship in School Psychology

4. Change requested
a. Prerequisite(s): From: ____________________________ To: ____________________________

b. Withdrawal (reason): ____________________________

c. Cross-list with: ____________________________

d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

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

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

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

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

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

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

10. Submitted to Coordinating Board by: 

   Associate Director, Curricular Services

   Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
Texas A&M University

Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: □ Undergraduate □ Graduate [ ] First Professional (DMD, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Department of Educational Psychology
3. Course prefix, number and complete title of course: SPSY 684: Professional Internship

Attach a brief supporting statement for changes made to items 4a through 4d, and 5 below.

4. Change requested
   a. Prerequisite(s): From: Completion of required substantive coursework; approval of department head. To: Completion of required substantive coursework; approval of instructor and department head.
   b. Withdrawal (reason): 
   c. Cross-list with: [Cross-listed courses require the signature of both department heads.]
   d. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete items 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

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

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

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

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

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

10. a. As currently in course inventory:
    Prefix | Course # | Title (excluding punctuation)
    Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | HICE Code | Level

11. b. Change to:
    Prefix | Course # | Title (excluding punctuation)
    Lect. | Lab | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | HICE Code | Level

Approval recommended by:
Victor Wilson, Ph.D.
Department Head or Program Chair (Type Name & Sign) Date

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

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu
Curricular Services – 08/14
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

Form Instructions
1. Course request type:  
   - [ ] Undergraduate  
   - [x] Graduate
   - [ ] First Professional (MD, DDS, DVM, PharmD)

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

3. Course prefix, number and complete title of course:  
   VPAT 640 Advanced Mechanisms of Disease

4. Change requested
   - [ ] No changes
   - [ ] To:

   a. Prerequisite(s): From:
   - [ ] No changes

   b. Cross-list with: No changes

   c. Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.

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

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

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

7. If this course will be stacked, please indicate the course number of the stacked course:
   VPAT 642

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

9. Complete current course title and current catalog course description:
   Prerequisite: DVM degree or approval of instructor.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    Prerequisite: DVM degree or approval of instructor.

11. a. As currently in course inventory:
    
    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|------------------------------|
    | VPAT   | 640      | Advanced Mechanisms of Disease |
    | Lect.  | Lab      | Other | SCH | CIP and Fund Code | Admin. Unit | EIC CODE | Level |
    | 3.00   | 0.00     | 0.00  | 3.00| 260.0910.0002    | 2907        | 0 0 3 6 3 2 | 6     |

    b. Change to:
    
    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|------------------------------|
    | VPAT   | 640      | Advanced Mechanisms of Disease |
    | Lect.  | Lab      | Other | SCH | CIP and Fund Code | Admin. Unit | EIC CODE | Level |
    | 2.00   | 0.00     | 0.00  | 2.00| 260.0910.0002    | 2907        | 15 - 16 0 0 3 6 3 2 | 6     |

    Approval recommended by:
    Department Head or Program Chair (Type Name & Sign)  
    Date  

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

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

    Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
VPAT 640: Mechanisms of Disease  
Fall 2015

**General Course Description and Objectives:**
This course serves as an overview of general pathology concepts ranging from inflammation and immunity to cellular adaptation, apoptosis, and neoplasia and the pathophysiology of these processes. Upon completion of this course the student will have a general understanding of mechanisms of disease due to infectious and non-infectious etiologies. The student will also be able to read and evaluate current literature in these areas.

**Instructors:**
Gwendolyn J. Levine, DVM, Diplomate, ACVP (Clinical Pathology) (Course Coordinator)
Clinical Assistant Professor, Veterinary Pathobiology
Office: VMA 210B  
e-mail: gjlevine@cvm.tamu.edu

Mary Nabity, DVM, PhD, Diplomate, ACVP (Clinical Pathology)  
Assistant Professor, Veterinary Pathobiology  
Office: Clinical Pathology Lab, Rm 2022B; Telephone: (979) 845-9172  
e-mail: mnabity@cvm.tamu.edu

Raquel Rech, DVM, MS, PhD, Diplomate, ACVP (Anatomic Pathology)  
Clinical Assistant Professor, Veterinary Pathobiology  
Office: Necropsy Rm 131; Telephone (979) 845-6948  
e-mail: rrech@cvm.tamu.edu

Angela Arenas, DVM, PhD, Diplomate, ACVP (Anatomic Pathology)  
Research Assistant Professor, Veterinary Pathobiology  
Office: VMD 54YB  
e-mail: aarenas@cvm.tamu.edu

**Prerequisites:**
DVM degree (or equivalent), or approval of the Course Coordinator

**Credit and contact hours**
2 credit hours
28 contact hours

**Meeting time and place:**
Thursday, 10am – 11:50 a.m.  
Bldg VMD 508 Room 50x  
Office hours are available by appointment
Note: This class must be taken in conjunction with VPAT 642, which meets on Tuesdays, 10-11:50am.

**Textbook and Course Materials:**
The principal reference text is Robbins & Cotran Pathologic Basis of Disease, 9th edition by Kumar, Abbas, and Aster, Saunders 2014/2015 (PBD). An additional reference book is Pathologic Basis of
Veterinary Disease, 5th edition by Zachary and McGavin, Elsevier, 2012 (McGavin). This course will also focus on articles from the current literature illustrating topics of discussion. The primary journals that articles will be pulled from include: Cell, Science, Nature, Veterinary Pathology, Journal of Veterinary Diagnostic Investigation, Journal of Comparative Pathology, American Journal of Pathology, New England Journal of Medicine, Toxicologic Pathology, and Veterinary Clinical Pathology. Articles will be sent via e-mail the week prior to discussion.

Course Organization:
The instructor will present a brief overview of each topic based on the reference text, followed by participant-led discussions of the articles. Discussions will be partly based on relevant questions written by participants on the assigned articles and/or text to be discussed. These questions will be submitted to the instructor of the respective class by 5 p.m. on the day prior to the class session.

Guidelines for questions:
Each student must submit up to 3 questions for each class period (the number of questions to be submitted is at the discretion of the instructor). Submitted questions should be multiple-choice, using 4 distractors (A-D). The question should be a single line, if possible, and the distractors should be single words or short phrases. Please avoid negative questions (e.g., All of the following...EXCEPT)

Evaluation (Grading):
Grades will be determined by attendance, preparation for class, submission of questions, participation in the discussions, and a final examination as outlined below:

<table>
<thead>
<tr>
<th>Component</th>
<th>Measure</th>
<th>Score</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contributions to Textbook/Article Discussions</td>
<td>Submission of relevant, quality questions</td>
<td>% of class periods submitted</td>
<td>25%</td>
</tr>
<tr>
<td></td>
<td>Instructor evaluation of daily participation</td>
<td>Scale: 1-5</td>
<td>25%</td>
</tr>
<tr>
<td>Attendance</td>
<td>% of class periods attended</td>
<td></td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td></td>
<td></td>
<td>25%</td>
</tr>
<tr>
<td>TOTAL SCORE:</td>
<td></td>
<td></td>
<td>100%</td>
</tr>
</tbody>
</table>

The final exam will be composed of multiple-choice questions. Scheduling of the final exam will be in accordance with the schedule published by the Office of the Registrar or based on a unanimous vote by the class.

Grades:
Final grades will be determined based on the mean and standard deviation (SD) of the total scores. The criterion most favorable to the student will be applied.

<table>
<thead>
<tr>
<th>Criteria</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total score ≥90%</td>
<td>A</td>
</tr>
<tr>
<td>OR ≥1 SD above the mean</td>
<td></td>
</tr>
<tr>
<td>Total score ≥80% and &lt;90%</td>
<td>B</td>
</tr>
<tr>
<td>OR ≥mean and &lt; 1SD above the mean</td>
<td></td>
</tr>
<tr>
<td>Total score ≥70% and &lt;80%</td>
<td>C</td>
</tr>
<tr>
<td>OR &lt; mean and ≤1 SD below the mean</td>
<td></td>
</tr>
<tr>
<td>Total score ≥60% and &lt;70%</td>
<td>D</td>
</tr>
<tr>
<td>OR Between 1 and 2 SD below the mean</td>
<td></td>
</tr>
<tr>
<td>Total score &lt;60%</td>
<td>F</td>
</tr>
<tr>
<td>OR &gt;2 SD below the mean</td>
<td></td>
</tr>
</tbody>
</table>
Below is a list of topics for each week along with assigned textbook readings. It is expected that participants read all assigned materials prior to class. The topic schedule is subject to change pending the needs of the class and interests.

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Instructor</th>
<th>Topic</th>
<th>Assigned Reading</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Associated with Defects in Enzymes through Glycogen Storage Diseases</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>3</td>
<td>9/17</td>
<td>MN</td>
<td>Primary, secondary, and tertiary hemostasis</td>
<td>PBD: 116-120: Hemostasis</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>McGavin: 68-75: Hemostasis</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>4</td>
<td>9/24</td>
<td>MN</td>
<td>Shock</td>
<td>PBD: 131-134</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>McGavin: 86-88</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>5</td>
<td>10/1</td>
<td>MN</td>
<td>Epigenetics</td>
<td>PBD: 1-5: Noncoding DNA through InRNA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>6</td>
<td>10/8</td>
<td>RR</td>
<td>Acute inflammation (leukocyte migration and phagocytosis)</td>
<td>PBD: 69-82</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>7</td>
<td>10/15</td>
<td>RR</td>
<td>Chronic Inflammation</td>
<td>PBD: 93-100</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>McGavin: 121-134</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>8</td>
<td>10/22</td>
<td>RR</td>
<td>Diseases of the Immune System</td>
<td>PBD: 185-211</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>9</td>
<td>10/29</td>
<td>RR</td>
<td>Autoimmune diseases and Immunodeficiency syndromes</td>
<td>PBD: 211-256</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>McGavin: 271-284</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>10</td>
<td>11/5</td>
<td>GL</td>
<td>Cell Cycle; Molecular Basis of Cancer</td>
<td>PBD: 25-29: Maintaining Cell Populations; 280-289: Molecular Basis of Cancer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>through Proto-oncogenes, Oncogenes, and Oncoproteins</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>11</td>
<td>11/12</td>
<td>GIL</td>
<td>Tumor Suppressor Genes, Metabolic Alterations, Cancer cells are like Stem Cells</td>
<td>PBD: 290-305: Insensitivity to Growth Inhibition: Tumor Suppressor Genes through Limitless Replicative Potential</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current articles</td>
</tr>
<tr>
<td>-----</td>
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<td>--------------------------------------------------------------------------------------------------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>13</td>
<td>11/25</td>
<td>No Class Thanksgiving</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>12/3</td>
<td>AA</td>
<td>Infectious Disease: Viral Infections</td>
<td>McGavin: 198-234 Current articles</td>
</tr>
<tr>
<td>15</td>
<td>12/11</td>
<td></td>
<td>Final Exam: 12:30-2:30pm</td>
<td></td>
</tr>
</tbody>
</table>

**Attendance policy**

Your presence and participation is expected at all class meetings. The University and College have published guidelines defining excused vs. unexcused absence. If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://student-rules.tamu.edu/rule07). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

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

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

If an examination is missed due to an excused absence, a makeup will be offered. The make-up examination must be completed promptly (within one week of the absence), at a time and place
determined by the instructor. Unexcused absence from an examination, or failure to complete a makeup examination, will result in a grade of "zero" (no grading points) for the examination.

Copyright Notice:
All handouts used in this course are copyrighted. Handouts include (but are not limited to) the syllabus, quizzes, examinations, laboratory problems, take-home problem sets, in-class materials, review sheets, and computer module programs. Students do not have the right to copy any of the handouts without express written permission of the course instructors.

Academic Integrity Statement
"An Aggie does not lie, cheat, or steal or tolerate those who do." TAMU Honor Council Rules and Procedures are on the web http://aggiehonor.tamu.edu. "Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System."

Americans with Disabilities Act:
"The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring accommodation, please contact the Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu."
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
- Submit original form and attachments -

Form Instructions:
1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional
2. Request submitted by (Department or Program Name): Veterinary Pathobiology
3. Course prefix, number and complete title of course: VPAT 642 *Mechanisms of Metabolic Disease*

4. Change requested:
   - Prerequisite(s): From:
   - Withdrawal (reason): no change
   - Cross-list with: no change
   - Change in course title and description. Enter complete current course title and current course description in item 9; enter proposed course title and proposed course description in item 10. Complete items 11a and b for a change in title.
   - Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

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

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

7. If this course will be stacked, please indicate the course number of the stacked course:
   - VPAT 640

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

9. Complete current course title and current catalog course description:
   - Mechanisms of Metabolic Disease. (3-0). Credit 3. Characteristics and mechanisms of diseases caused either by deficiency, imbalance, excess of specific nutrients or chemicals, or by regulatory disturbances of metabolism. Prerequisite: DVM degree or approval of department head.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    - Mechanisms of Metabolic Disease. (2-0). Credit 2. Characteristics and mechanisms of diseases caused either by deficiency, imbalance, excess of specific nutrients or chemicals, or by regulatory disturbances of metabolism. Prerequisite: DVM degree or approval of department head.

11. a. As currently in course inventory:
    - Prefix: VPAT
    - Course #: 642
    - Title (excluding punctuation): *Mechanisms of Metabolic Disease*
    - Lab: 3.00
    - Other: 0.00
    - STH: 0.00
    - CIP and Fund Code: 2907
    - Admin. Unit: 0 3 6 3 2 6
    - Level: 6

b. Change to:
    - Prefix: VPAT
    - Course #: 642
    - Title (excluding punctuation): *Mechanisms of Metabolic Disease*
    - Lab: 2.00
    - Other: 0.00
    - STH: 0.00
    - CIP and Fund Code: 2907
    - Admin. Unit: 15 - 16
    - Level: 6

Approval recommended by:

Department Head or Program Chair (Type Name & Sign) Date: Chair, College Review Committee 9-30-14

Department Head or Program Chair (Type Name & Sign) Date: Dean of College 11-21-14

Submitted to Coordinating Board by:

Associate Director, Curricular Services Date: Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
VPAT 642: Mechanisms of Metabolic Disease
Fall 2015

General Course Description and Objectives:
This course serves as an overview of general pathology concepts ranging from inflammation and immunity to cellular adaptation, apoptosis, and neoplasia and the pathophysiology of these processes. Upon completion of this course, the student will have a general understanding of mechanisms of disease due to inflammatory and non-inflammatory causes.

Instructors:

Mary Nabity, DVM, PhD, Diplomate, ACVP (Clinical Pathology)
Assistant Professor, Veterinary Pathobiology
Office: Clinical Pathology Lab, Rm 2022B; Telephone: (979) 845-9172
e-mail: mnabity@cvm.tamu.edu

Gwendolyn J. Levine, DVM, Diplomate, ACVP (Clinical Pathology)
Clinical Assistant Professor, Veterinary Pathobiology
Office: VMA 210B
e-mail: gilevine@cvm.tamu.edu

Raquel Rech, DVM, MS, PhD, Diplomate, ACVP (Anatomic Pathology)
Clinical Assistant Professor, Veterinary Pathobiology
Office: Necropsy Rm 131; Telephone (979) 845-6948
e-mail: rrech@cvm.tamu.edu

Angela Arenas, DVM, PhD, Diplomate, ACVP (Anatomic Pathology)
Research Assistant Professor, Veterinary Pathobiology
Office: VMD 54YB; Telephone: (979) 862-2220
e-mail: aarenas@cvm.tamu.edu

Prerequisites:
DVM degree (or equivalent), or approval of the Course Coordinator.

Credit and contact hours:
2 credit hours (28 contact hours)

Meeting time and place:
Tuesday, 10 – 11:50 a.m.
Bldg VMD 508 Room 50x
Office hours are available by appointment
Note: This class must be taken in conjunction with VPAT 640, which meets on Thursdays, 10-11:50 a.m.

Textbook and Course Materials:
Additional readings will include articles from the current literature for each topic. Articles will be sent via e-mail the week prior to discussion.

**Course Organization:**
The instructor will present a brief overview of each topic based on the reference text, followed by participant-led discussions of the articles. Discussions will be partly based on relevant questions written by participants on the assigned articles and/or text to be discussed. These questions will be submitted to the instructor of the respective class by 5 p.m. on the day prior to the class session.

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Grades will be determined by attendance, preparation for class, submission of questions, participation in the discussions, and a final examination as outlined below:

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<th>Weight</th>
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<tr>
<td></td>
<td>Instructor evaluation of daily participation</td>
<td>Scale: 1-5</td>
<td>25%</td>
</tr>
<tr>
<td>Attendance</td>
<td>% of class periods attended</td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td>Final Exam</td>
<td></td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td>TOTAL SCORE:</td>
<td></td>
<td>100%</td>
<td></td>
</tr>
</tbody>
</table>

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<table>
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<tr>
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<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total score ≥90%</td>
<td>A</td>
</tr>
<tr>
<td>Total score ≥80% and &lt;90%</td>
<td>B</td>
</tr>
<tr>
<td>Total score ≥70% and &lt;80%</td>
<td>C</td>
</tr>
<tr>
<td>Total score ≥60% and &lt;70%</td>
<td>D</td>
</tr>
<tr>
<td>Total score &lt;60%</td>
<td>F</td>
</tr>
</tbody>
</table>

Below is a list of topics for each week along with assigned textbook readings. It is expected that participants read all assigned materials prior to class. The topic schedule is subject to change pending the needs of the class and interests.
<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Instructor</th>
<th>Topic</th>
<th>Readings</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>9/1</td>
<td>GL</td>
<td>Cellular Housekeeping, Lysosomes, Cell Signaling</td>
<td>PBD: 6-24: Cellular Housekeeping through Interaction with the Extracellular Matrix</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Current articles: lysosomes, cell signaling</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Current articles: Apoptosis, Necroptosis</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>9/15</td>
<td>MN</td>
<td>Circulatory system, endothelial properties &amp; edema</td>
<td>PBD: 113-116: Edema &amp; Effusions and Hyperemia; 121: Endothelium McGavin: 60-68: Circulatory system through Abnormal fluid distribution Current articles</td>
</tr>
<tr>
<td>5</td>
<td>9/29</td>
<td>MN</td>
<td>Genes and Genetic Disorders</td>
<td>PBD: 137-149: Genes/Human diseases through Defects in Receptor Proteins; 157-182 Current articles: Genetic defects in veterinary medicine</td>
</tr>
<tr>
<td>6</td>
<td>10/6</td>
<td>MN</td>
<td>Vitamin D/Calcium/Phosphorus regulation</td>
<td>PBD: 438-442 Current articles</td>
</tr>
<tr>
<td>7</td>
<td>10/13</td>
<td>RR</td>
<td>Acute inflammation (mediators of inflammation)</td>
<td>PBD: 82-93 Current articles</td>
</tr>
<tr>
<td>8</td>
<td>10/20</td>
<td>No Class (ACVP meeting)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>10/27</td>
<td>MN</td>
<td>Hypertrophy, Atrophy, &amp; Metaplasia; Tissue Repair and Regeneration</td>
<td>PBD: 32-38: Cell responses to stress through metaplasia; pgs. 100-110: Tissue Repair Current articles: Angiogenesis and/or regeneration</td>
</tr>
<tr>
<td>10</td>
<td>11/3</td>
<td>RR</td>
<td>Hypersensitivity</td>
<td>Current articles</td>
</tr>
<tr>
<td>11</td>
<td>11/10</td>
<td>RR</td>
<td>Autoimmune diseases</td>
<td>Current articles</td>
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<tr>
<td>11</td>
<td>11/1</td>
<td>GL</td>
<td>Tumor Suppressor Genes, Metabolic Alterations, Cancer cells are like Stem Cells</td>
<td>PBD: 290-305: Insensitivity to Growth Inhibition: Tumor Suppressor Genes through Limitless Replicative Potential</td>
</tr>
<tr>
<td>#</td>
<td>Date</td>
<td>Time</td>
<td>Assignment Details</td>
<td>References</td>
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<tr>
<td>13</td>
<td>11/24</td>
<td>AA</td>
<td>Current articles: Invasion and Metastasis; Tumor Immunology</td>
<td>Chapter 8 PBD: 341-354</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>McGavin: 147-164</td>
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<tr>
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<td></td>
<td></td>
<td></td>
<td>Current articles: Microbial pathogenesis</td>
</tr>
<tr>
<td>14</td>
<td>12/1</td>
<td>AA</td>
<td>General principles of Microbial Pathogenesis</td>
<td>McGavin: 164-198</td>
</tr>
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<td></td>
<td>Mechanisms of Microbial Infections</td>
<td>Current articles: Bacterial Infections</td>
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<tr>
<td>15</td>
<td>12/8</td>
<td>AA</td>
<td>Infectious Disease: Bacterial Infections</td>
<td>McGavin: 237-241</td>
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<tr>
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<td></td>
<td></td>
<td>Fungal, protozoan, prions</td>
<td>Current articles: Fungal, protozoan, prions</td>
</tr>
<tr>
<td></td>
<td>12/11</td>
<td></td>
<td>Final Exam: 12:30-2:30 p.m.</td>
<td></td>
</tr>
</tbody>
</table>

**Attendance policy**

Your presence and participation is expected at all class meetings. The University and College have published guidelines defining excused vs. unexcused absence. If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence. The reasons absences are considered excused by the university are listed below. See Student Rule 7 for details (http://student-rules.tamu.edu/rule07). The fact that these are university-excused absences does not relieve the student of responsibility for prior notification and documentation. Failure to notify and/or document properly may result in an unexcused absence. Falsification of documentation is a violation of the Honor Code.

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

Other absences may be excused at the discretion of the instructor with prior notification and proper documentation. In cases where prior notification is not feasible (e.g., accident or emergency) the
student must provide notification by the end of the second working day after the absence, including an explanation of why notice could not be sent prior to the class.

If an examination is missed due to an excused absence, a makeup will be offered. The make-up examination must be completed promptly (within one week of the absence), at a time and place determined by the instructor. Unexcused absence from an examination, or failure to complete a makeup examination, will result in a grade of “zero” (no grading points) for the examination.

**Copyright Notice:**
All handouts used in this course are copyrighted. Handouts include (but are not limited to) the syllabus, quizzes, examinations, laboratory problems, take-home problem sets, in-class materials, review sheets, and computer module programs. Students do not have the right to copy any of the handouts without express written permission of the course instructors.

**Academic Integrity Statement**
"An Aggie does not lie, cheat, or steal or tolerate those who do." TAMU Honor Council Rules and Procedures are on the web http://aggiehonor.tamu.edu. "Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations, research papers, and other academic work. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System."

**Americans with Disabilities Act**
"The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe that you have a disability requiring accommodation, please contact the Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit http://disability.tamu.edu."