Course Changes
MEMORANDUM

TO: Graduate Instruction Committee, CEHD

THROUGH: George Cunningham, Ph.D.
Associate Dean, College of Education and Human Development

FROM: Victor Willson, Ph.D.
Professor and Head

SUBJECT: Course Change – Educational Technology Course Changes

Attached, please find the appropriate paperwork for changing the course titles and descriptions for six educational technology courses.

Pursuant to the directives of the College, the following information is provided:

1. Rationale: These course titles and descriptions are being updated to reflect changes in the field of educational technology. The current titles and description are outdated.

2. Vote by the Executive Committee: The changes have the unanimous support of our executive Committee and were voted on at the meeting held on 9/7/15.

We appreciate your consideration of this course. Please contact us should you require any additional information.
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 Architecture
3. Course prefix, number and complete title of course:
   ARCH 619 - Applied Solar Energy

4. Change requested
   a. Prerequisite(s): From:
      ARCH 335 or ARCH 615 or equivalent
   b. Withdrawal (reason): [Blank]
   c. Cross-list with: [Blank]
   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 (C.L.M.D)
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://vcr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:
   ARCH 619 (3-0) Credit 3. Technology behind applied solar energy design including: calculating solar radiation, heat transfer related to solar design; active systems; FCHART and economics.

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

11. a. As currently in course inventory:
   Department Course # Title (excluding punctuation)
   ARCH 619 Applied Solar Energy
   
   Lect. Lab Other SCH CIP and Fund Code Admin. Unit HCIE Code Level
   3.00 0.00 3.00 0404010006 0290 0 0 3 6 3 2 6

   b. Change to:
   Department Course # Title (excluding punctuation)
   
   Lect. Lab Other SCH CIP and Fund Code Admin. Unit HCIE Code Level
   0 0 3 6 3 2

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

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

   Submitted to Coordinating Board by:
   Associate Director, Curricular Services
ARCH 619 – Applied Solar Energy

Change in Course Request to remove “ARCH 335 or equivalent” from prerequisite so that students who did not attend our undergraduate program are not excluded from registering for the course. Howdy cannot process “or equivalent” to allow them open registration (they must have had the equivalent to have been accepted in the graduate program).
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): Select or Type Department/Program Name
   ARCH 621 - Energy Optimization in Building Design
3. Course prefix, number and complete title of course:
   ARCH 621 - Energy Optimization in Building Design
4. Change requested
   Graduate classification or approval of instructor;
   ARCH 633 or ARCH 615 or equivalents
   To: Graduate classification or approval of instructor
   a. Prerequisite(s): From:
   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 (CRM/D)
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://epr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
   ARCH 621 - Energy Optimization in Building Design (3-0) Credit 3. Optimum energy use strategies for commercial buildings, hourly energy simulation methods, building envelope and HVAC system energy optimization by computer techniques; life-cycle cost analysis of building energy systems; case studies in commercial building applications.
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
10. □ If course will be stacked, please indicate the course number of the stacked course:
11. a. As currently in course inventory:

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b. Change to:

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<th>HCE Code</th>
<th>Level</th>
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| Approval recommended by: | Ward V. Wells |
| Date: | 10-14-15 |

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

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<th>Department Head or Program Chair (Type Name &amp; Sign) Date</th>
<th>Chair, College Review Committee</th>
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<tbody>
<tr>
<td>Date:</td>
<td>Leslie Felgenbaum</td>
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<th>Department Head or Program Chair (Type Name &amp; Sign)</th>
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<tbody>
<tr>
<td>Date:</td>
<td>Dean of College</td>
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</tbody>
</table>

| Chair, GC or USC Date | 10-5-15 |

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
ARCH 621 – Energy Optimization in Building Design

Change in Course Request to remove “ARCH 633 or ARCH 615 or equivalent” from prerequisite so that students who did not attend the Career Change program are not excluded from registering for the course and ARCH 633 is no longer a prerequisite for this course. Howdy cannot process “or equivalent” to allow them open registration (they must have had the equivalent to have been accepted in the graduate program).
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, PhamD, DVM)
2. Request submitted by (Department or Program Name):  
   Department of Architecture
3. Course prefix, number and complete title of course:  
   ARCH 633- Applied Architectural Systems

4. Change requested
   a. Prerequisite(s): From:  
      - Graduate classification or approval of instructor;  
      - ARCH 335 or ARCH 615 or equivalent
   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 (CLME)
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://yr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:  
   ARCH 633 (3-0) Credit 3. Building energy consumption patterns and conservation strategies; natural and mechanical subsystems for environmental control; subsystem design criteria, economic considerations and selection methods.
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):

11. a. As currently in course inventory:

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<th>CP and Fund Code</th>
<th>Admin Unit</th>
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</table>

| Approval recommended by:  
  - Ward V. Wells  
  - Department Head or Program Chair (Type Name & Sign)  
  - Date
| Leslie Feigenbaum  
  - Chair, College Review Committee  
  - Date
| Leslie Feigenbaum  
  - Dean of College  
  - 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
ARCH 633 – Applied Architectural Systems

Change in Course Request to remove “ARCH 335 or ARCH 615 or equivalent” from prerequisite so that students who did not attend our undergraduate program or those who did not attend the Career Change program are not excluded from registering for the course. Howdy cannot process “or equivalent” to allow them open registration (they must have had the equivalent to have been accepted in the graduate program).
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 Architecture
3. Course prefix, number and complete title of course:  ARCH 634 - Architectural Lighting

4. Change requested:  Graduate classification or approval of instructor; ARCH 335 or equivalent
   a. Prerequisite(s):  From:  
   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 (CityU)
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-control/export-control-basics-for-distance-education).
8. Complete current course title and current catalog course description:
   ARCH 634 (2-2). Credit 3. Attributes of the lighting environment, lighting and energy issues, daylight availability, building design for daylighting, heat loss control, solar shading, daylighting models, graphical analytical and computer methods of analysis, visual and lighting comfort evaluation, integration of daylight and electric light, energy analysis.

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

11. a. As currently in course inventory:
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Approval recommended by:
Ward V. Wells  Leslie Feigenbaum  10-16-15
Department Head or Program Chair (Type Name & Sign)  Chair, College Review Committee  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@ag.tamu.edu
Curricular Services – 08/14
ARCH 634 – Architectural Lighting

Change in Course Request to remove “ARCH 335 or equivalent” from prerequisite so that students who did not attend our undergraduate program are not excluded from registering for the course. Howdy cannot process “or equivalent” to allow them open registration (they must have had the equivalent to have been accepted in the graduate program).
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 DV'M)

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

3. Course prefix, number and complete title of course:
   ARCH 643 - Software Analysis for HVAC Systems in Low Energy Buildings

4. Change requested
   a. Prerequisite(s): From: To:
      ARCH 633 or equivalent  Graduate classification or approval of instructor
   b. Withdrawal (reason):
   c. Cross-list with:

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

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

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

9. Complete current course title and current catalog course description:
   Software Analysis for HVAC Systems in Low Energy Buildings. (2-3) Credit 3. Energy analysis (using Energy Plus software) with an emphasis on developing strategies for low energy use; simulation of various heating and cooling systems in low energy buildings; analysis of the mechanical equipment (including air handling systems, chiller and boilers), the building envelope, energy management control systems and indoor air quality.

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

11. a. As currently in course inventory:

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   b. Change to:

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<th>CP and Fund Code</th>
<th>Admin Unit</th>
<th>FICE Code</th>
<th>Level</th>
</tr>
</thead>
</table>

   Approval recommended by:
   Ward V. Wells  
   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 – 06/14
ARCH 643 – Software Analysis for HVAC Systems in Low Energy Buildings

Change in Course Request to remove “ARCH 633 or equivalent” from prerequisite as ARCH 633 is no longer a prerequisite for this course.
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): Chemistry Department
3. Course prefix, number and complete title of course: CHEM 636 Mechanistic Inorganic Chemistry

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

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

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

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

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

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

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

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

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

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

11. a. As currently in course inventory:

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Approval Recommended by:

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

Chair, College Review Committee Date

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

Dean of College Date

Chair, GC & UCC 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
CHEM 636: INORGANIC REACTION RATES AND PATHWAYS
FALL 2016
TTH / 9:35 – 10:25 AM / ROOM - 2122

INSTRUCTOR:  Dr. Donald J. Daresbourg  406 Chemistry Bldg. 845-5417 or -2983
Office Hours: by appointment
Email: djdarens@mail.chem.tamu.edu
Course Web: ecampusprod.tamu.edu
DJD Research Homepage: http://www.chem.tamu.edu/rgrroup/djd

REFERENCE TEXTS:

We will use reviews and papers from the current literature extensively.

GRADING:
Midterm Exam – Tuesday, October 13  100
Problem Sets & Other Assignments  50
Final Exam – Friday, December 11  150
Total  300 points

SCALE:
A ≥ 90%;  89% ≥ B ≥ 80%;  79% ≥ C ≥ 70%;  69% ≥ D ≥ 60%;  F < 60 %

EXAM SCHEDULE:
Midterm Exam: Tuesday, October 13
Final Exam: Friday, December 11, 12:30 – 2:30 PM

COURSE DESCRIPTION:
Reaction pathways in transition-metal complexes; factors which influence the reaction rate including nature of the metal, the coordination sphere, reaction conditions and catalytic intermediates.

PREREQUISITES: CHEM 633
**CELL PHONES, TABLETS AND OTHER ELECTRONIC DEVICES:** Use of cell phones and other electronic devices in class is strictly limited to course-related activities (e.g., taking notes). Students violating this policy will be required to leave immediately. If you have an emergency, please be courteous and step outside, so as not to disrupt the class.

**ATTENDANCE/MAKE-UP POLICY**

The University views class attendance as the responsibility of an individual student. Attendance is essential to complete the course successfully. University rules related to excused and unexcused absences and make up work are located on-line at [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07).

**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 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).

**AGGIE HONOR CODE**

"AN AGGIE DOES NOT LIE, CHEAT, OR STEAL OR TOLERATE THOSE WHO DO."

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

For additional information please visit: [http://www.tamu.edu/aggiehonor/](http://www.tamu.edu/aggiehonor/)

**TOPICS TO BE COVERED INCLUDE:**

- Reaction Energetics
- Chemical Kinetics and Rate Laws
- The Determination of the Rate Law
- The Deduction of Mechanism
- Ligand Substitution Reactions
- Square-planar complexes
- Werner $O_6$ complexes
- Organometallic complexes
- Reactions of Extreme Rates, including stereochemical nonrigidity
- Electron-Transfer Reactions and Marcus Theory
- Reaction Mechanisms of selected processes, including isotope rate effects, and Catalytic processes.
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):
   Chemistry Department

3. Course prefix, number and complete title of course:
   CHEM 673 Symmetry and Group Theory in Chemistry

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 (CLMDS)

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-control/export-control-basics-for-distance-education).

9. Complete current course title and current catalog course description:
   673. Symmetry and Group Theory in Chemistry. (3-0). Credit 3. Applications of symmetry and group theory to various types of chemical systems; classification of molecules into symmetry point groups and use of character tables. Prerequisite: Bachelor’s degree in chemistry.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    673. Symmetry and Group Theory in Chemistry. (3-0). Credit 2 to 3 Applications of symmetry and group theory to various types of chemical systems; classification of molecules into symmetry point groups and use of character tables. Prerequisite: Bachelor’s degree in chemistry.

11. a. As currently in course inventory:
    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-------------------------------|
    | CHEM   | 673      | Sym & Grp Theory in Chem      |
    |        |          |                               |
    | Lect.  | Lab      | Other | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level |
    | 3.00   | 0.00     | 0.00  | 3.00| 4005060002       | 0600        | 0323632 | 6     |
    
    b. Change to:
    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-------------------------------|
    | CHEM   | 673      | Sym & Grp Theory in Chem      |
    |        |          |                               |
    | Lect.  | Lab      | Other | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code | Level |
    |        | 0.00     | 0.00  | 4005060002 | 0600        | 16         | 17        | 0323632 | 6     |

   Approval recommended by: ____________________________
   Date: 10-16-15

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

   Chair, College Review Committee ____________________________ Date: 10-11-15

   Department Head or Program Chair (Type Name & Sign) ____________________________
   Date: 11-5-15

   Submitted to Coordinating Board by: ____________________________
   Chair, GC Co/AUCC ____________________________ Date: 10-11-15

   Effective Date ____________________________

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Chemistry 673
Symmetry and Group Theory in Chemistry – Variable Credit Format

Instructor: Dr. Timothy Hughbanks
Time: TTh 12:45 - 2:00 PM; Room 2121
Office Hours: Tuesday 2:00 - 4:00. Other times are OK too, if I have time!

Texts:
(4) Handouts on the class web site are required reading. Of these, those followed most closely are:
(a) Survival Facts from Quantum Mechanics (the basics)
   (www.chem.tamu.edu/rgroup/hughbanks/courses/673/handouts/qm_notes.pdf)
(b) Translation Groups
   (http://www.chem.tamu.edu/rgroup/hughbanks/courses/673/handouts/translation_groups1.pdf,
   http://www.chem.tamu.edu/rgroup/hughbanks/courses/673/handouts/translation_groups2.pdf,
   http://www.chem.tamu.edu/rgroup/hughbanks/courses/673/handouts/translation_groups3.pdf)
(c) Perturbation Theory and Subgroups
   (http://www.chem.tamu.edu/rgroup/hughbanks/courses/673/handouts/subgroups&perturbation_theory.pdf)
(d) Antisymmetric Wavefunctions: Slater Determinants
   (www.chem.tamu.edu/rgroup/hughbanks/courses/673/handouts/antisymmetry.pdf)

The course provides a partially modularized introduction to the fundamentals and applications of the theory of group representations in chemistry. For students who elect to take the course for 3 credits, the total content of the 3-credit course will be similar to our current Chem 673. After a brief introduction to the abstract theory of groups is given, applications of symmetry groups will constitute the major emphasis of the course. The student will be encouraged to develop both the formal skills of using group theory to “grind out answers” and to acquire some intuitive and pictorial sense of “what it all means”. For the more mathematical (formal) first third of the course, the lectures will probably more closely follow the text than the second half. For many topics, particularly with aspects of quantum mechanics and those dealing with solids, additional handouts and reference materials are necessary and available.

Grades will be based on the homework (= 33%), and one exam for each module (two for 2 credit version, three for 3 credit version). There will be 4 (or 6) problem sets (two for each module, 25 points each), and an exam to cover each module (100 pts). Students are expected to make a serious attempt at every assigned homework problem before consulting with peers, otherwise collaboration is permitted as long as significant contributions are made by all collaborators. Students should not expect to be able to do all problems in a problem set in a single sitting.
Module #1 – required of all students  

I. Basic Properties of Groups and Symmetry Groups
A. Multiplication of elements
   - closure, existence of an identity element and reciprocals, associative law
   - noncommutation of operations
   - multiplication tables
   - subgroups and supergroups
B. Symmetry groups
   - symmetry elements and operations
   - assigning point groups (flow chart)
   - examples of subgroups
   - abelian groups, cyclic groups
C. Similarity transformations and classes
   - similarity transformations
   - geometrical significance of classes of symmetry operators

II. Group Representations and elementary Physical Implications
A. Matrices as representations for symmetry operations
   - review of vector and matrix properties; matrix operations
   - some special properties of matrices
   - character (trace) of a matrix
   - orthogonal matrices, matrices as geometric transformation operators
   - inverses
B. Group representations
   - reducible and irreducible representations
   - the “Great Orthogonality Theorem” and its consequences
   - character tables
C. Group theory as a tool in quantum mechanics
   - operators in quantum mechanics
   - the importance of operators that commute with the Hamiltonian
   - symmetry operators as special cases of commuting operators
   - the direct product and its uses
   - bases for group representations and nonzero matrix elements
   - transition probabilities – including application to selection rules for vibrational
     spectra (IR and Raman single quantum transitions, i.e., fundamentals)
D. Symmetry-Adapted Linear Combinations (SALCs) and Bases for Irreducible
   - Representations.
   - projection operators and the construction of SALCs
   - symmetry patterns, SALCs, and the intuitive nature of bases for irreducible
   - representations - a pictorial survey, Mulliken notation

Module #2, nine 75 minute lectures

III. Selected Applications: MO Theory, Vibrational Spectra
A. Molecular Orbitals in Organic Molecules (Hückel Theory – a quickie version)
the LCAO method - secular determinants and the Hückel approximation
MO diagrams
using group theory to “block factor” secular determinants
carbocyclic molecules and other examples of π bonding
more examples (e.g., heteroatoms, pericyclic reactions, etc.)

B. Molecular Orbitals in Inorganic Molecules
MOs for octahedral and tetrahedral molecules
other molecular shapes (trigonal prisms, low coordination numbers)
Some basics of ligand field theory (some spin worries)

C. Molecular Vibrations
normal modes
symmetries of normal modes
mixing of internal coordinates in normal modes
selection rules for vibrational spectra (IR and Raman)
mixing of internal coordinates in normal modes

D. Ligand Field Theory (Some spin worries)
atomic states
connecting atomic states and molecular states
high-spin and low-spin molecules
selection rules for electronic transitions in molecules

Module #3, nine 75 minute lectures

III. Advanced Topics (an introduction for materials chemists)

A. Translation Groups (big cyclic groups!)
the various meanings of “k” – the wavevector, an irreducible representation label,
determinant of wavefunction phases
pictorial representation of crystal orbitals and vibrational modes (phonons)
π carbon-based chains and layers (e.g., polyacetylene and graphene)
more examples (e.g., a few inorganic solids, e.g., perovskites, skutterudites, etc.)
selection rules for electronic transitions in solids
vibronic coupling, the solid state analog: electron-phonon coupling

D. More on Ligand Field Theory
Slater determinants as bases for reducible and irreducible representations
Jahn-Teller effects - applications of subgroups
use of group theory as an aid in getting electronic state energies and understanding
the interplay between ligand fields and e-e repulsion
broken symmetry – when to expect it
applications to magnetism and EPR
Chemistry 673 - Other Suggested Books (more advanced texts in italics)

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<thead>
<tr>
<th>Author(s)</th>
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<td>Ballhausen</td>
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<td>Bishop</td>
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<td>Albright, Burdett, Whangbo</td>
<td>Orbital Interactions in Chemistry, 2nd Edition</td>
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<td>Burns &amp; Glazer</td>
<td>Space Groups for Solid State Scientists</td>
</tr>
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<td>Butler</td>
<td>Point Group Symmetry Applications</td>
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<td>Introduction to Ligand Fields</td>
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<tr>
<td>Franzen</td>
<td>Physical Chemistry of Solids, Basic Principles ...</td>
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<td>Hanna</td>
<td>Quantum Mechanics in Chemistry</td>
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<td>Hoffmann</td>
<td>Solids and Surfaces, A Chemist's View...</td>
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<td>Heine</td>
<td>Group Theory in Quantum Mechanics (Dover)</td>
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<td>Symmetry Rules for Chemical Reactions</td>
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<td>Tinkham</td>
<td>Group Theory and Quantum Mechanics (Dover)</td>
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<td>Walton</td>
<td>Beginning Group Theory for Chemistry</td>
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See also:

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):
   Educational Psychology
3. Course prefix, number and complete title of course:
   EDTC 602 Educational Technology: Field, Theory, Profession
4. Change requested
   a. Prerequisite(s): From:
   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-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
   EDTC 602 Educational Technology: Field, Theory, Profession. Introduces the student to the educational technology profession and provides a conceptual map of the theory, research and practice of the field; a historical overview of the field aids in bringing current educational technology practices into perspective.
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   EDTC 602 Educational Technology: Field, Theory and Profession. Introduction to the field of educational technology, including media, instructional design, theory, and research; exploration of the history and future direction of the field, as well as careers in educational technology through interaction with professionals currently working in the field.

10. a. As currently in course inventory:
    Prefix  Course #  Title (excluding punctuation)
    EDTC  602  EDUC TECH FIELD THEORY
    Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  FICE-Code  Level
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    b. Change to:
    Prefix  Course #  Title (excluding punctuation)
    Lect.  Lab  Other  SCH  CIP and Fund Code  Admin. Unit  Acad. Year  FICE-Code  Level
    Approval recommended by:
    Victor Wilsson, Ph.D.
    Department Head or Program Chair (Type Name & Sign) Date
    Ministry Head or Program Chair (Type Name & Sign) Date
    (if cross-listed course)
    Submitted to Coordinating Board by:
    Associate Director, Curricular Services
    Date Effective Date

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

1. Course request type: ☐ Undergraduate ☑ Graduate ☐ First Professional (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Educational Psychology
3. Course prefix, number and complete title of course: EDTC 621 Graphic Communication and Interface Design

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

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

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

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

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

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

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

   Graphic Communication and Interface Design. Application of research findings and design principles to the critical analysis of the interfaces of everyday objects, print materials, and Web sites; effective design of graphical displays to communicate functionality and structure; issues related to flawed interfaces, elegant design solutions, user-centered design, usability testing, and Web site accessibility.

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

    Graphic Communication and Interface Design. Effective communication using the visual channel humans use to process information; application of research findings and design principles to the effective design of graphical displays to communicate functionality and structure and the critical analysis of the interfaces of everyday objects and e-learning resources; includes flawed interfaces, elegant design solutions, user-centered design, and usability.

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

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

Dean of College Date

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

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

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services – 08/14
Texas A&M University
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): Educational Psychology
3. Course prefix, number and complete title of course: EDTC 631 Educational Video
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 11b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and 11b. 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 (FLMD)
7. If this course will be stacked, please indicate the course number of the stacked course:
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
9. Complete current course title and current catalog course description:
   Educational Video. Design and development of educational video programs using an effect-to-cause model: message definition, scriptwriting, storyboard, production, post-production editing and evaluation; topics include lighting, sound, the operation of digital video cameras, the use of digital editing software, visual effects, compression, video sharing websites, copyright law, production personnel, medium requirements.
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Educational Video. Design and development of educational videos using choice of video editing program; experience the entire process of developing educational videos, from concept to finished project; emphasis on instructional message design, treatment, and storyboard.

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

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

Effective Date

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

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):  Educational Psychology
3. Course prefix, number and complete title of course:  EDTC 645: Instructional Applications of Computer Technologies I

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

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

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

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

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

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

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

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

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

   Instructional Applications of Computer Technologies I. Introduction to the integration of computers, telecommunications, and related technologies into educational practice; resources for personal productivity and development/delivery of instructional materials; applications for both educators and students (word processing, databases, etc.); projects include hands-on development of HyperText, MultiMedia, and Internet (web-based) resources in participant's own area of study.

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

   Emerging Technologies for Learning I. Evaluation of emerging trends and technologies and their impact on learning and performance; emphasis on technologies currently being adopted in organizations and driving changes in education; hands-on activities examining multiple technologies and identifying best practices.

10. Submit coordinator Exit Criteria:

11. a. As currently in course inventory:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|--------------------------------|
    | EDTC   | 645      | INSTR APPS/COM TECH I         |

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin, Unit | HCIE Code |
    |-------|-----|-------|-----|-------------------|-------------|-----------|
    | 3.00  | 0.00| 0.00  | 3.00| 1103010004        | 0920        | 0 0 3 6 3 2 6 |

   b. Change to:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|--------------------------------|
    | EDTC   | 645      | EMERGING TECH FOR LEARN I      |

    | Lect. | Lab | Other | SCH | CIP and Fund Code | Admin, Unit | Acad. Year | HCIE Code |
    |-------|-----|-------|-----|-------------------|-------------|------------|-----------|
    | 3.00  | 0.00| 0.00  | 3.00| 1305010004        | 0920        | 16 - 17    | 0 0 3 6 3 2 |

   Approval recommended by:

   Victor Wilson, Ph.D.
   Department Head or Program Chair (Type Name & Sign)  Date 09/21/15

   George Cunningham, Ph.D.
   Chair, College Review Committee  Date 09/21/15

   Dean of College  Date 11-5-15

   Mark Zoran, Ph.D.
   Chair, GC or UCC  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):
   - Educational Psychology
3. Course prefix, number and complete title of course:
   - EDTC 646: Instructional Applications of Computer Technologies II

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 (S/U, P/F)
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-basics-for-distance-education).
9. Complete current course title and current catalog course description:
   - Instructional Applications of Computer Technologies II. Issues (social, educational, etc.) and techniques associated with educational applications of computers and related resources and techniques (graphics, multimedia, etc.); relationship of course activities and products to individual educational/instructional philosophies; web-supported.
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    - Emerging Technologies for Learning II. Critical examination of trends and technologies expected to have an impact on learning and performance over the next five years; educational futurist predictions, key factors to consider in adoption/integration decisions, and theoretical as well as technological underpinnings; hands-on activities field of interest.

11. a. As currently in course inventory:

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<thead>
<tr>
<th>Prefix</th>
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<td>0920</td>
<td>16 - 17</td>
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<td>6</td>
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</tbody>
</table>

Approval recommended by:

Victor Willson, 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 UCO 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
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: ☑ Graduate ☐ First Professional (DDS, MD, JD, PharmD, JWM)
2. Request submitted by (Department or Program Name): Educational Psychology
3. Course prefix, number and complete title of course: EDTC 651: Tutorials and Simulations

Ask a final supporting statement for changes made to items 4a and 10 below:

<table>
<thead>
<tr>
<th>Approval of Instructor</th>
<th>Graduate Classification, Approval of Instructor</th>
</tr>
</thead>
</table>

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, credit hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

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

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

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

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

9. Complete current course title and current catalog course description:
   Tutorials and Simulations. Application of theory to the design and development of two types of computer-based instructional programs: tutorials and simulations; critique of existing instructional software for K-12 students and adult training programs; guidelines for design decisions related to rich media, navigation, learner/program control, practice, interactivity, and feedback.

10. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
    E-Learning Design and Development. Design and development of stand-alone instructional programs for independent learning; consideration of research-based principles for the design of these programs, including guidelines for design decisions related to rich media, navigation, learner/program control, practice, interactivity, and feedback; application of these principles to design and develop a program on a topic of choice; use of Adobe Captivate and image editing software.

11. a. As currently in course inventory:

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<th>Title (excluding punctuation)</th>
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b. Change to:

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<td>Lab</td>
<td>Other</td>
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<td>Admin. Unit</td>
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<td>0920</td>
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</table>

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

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 (A M, A D, B Arch, Ctrl)
2. Request submitted by (Department or Program Name):
   - Department of Finance
3. Course prefix, number and complete title of course:
   - FINC 635 Financial Management for Non-Business

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

4. Change requested
   a. Prerequisite(s): From instructor To Graduate classification
   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: F
   - 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).


9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Survey of Finance. Financial markets, the investment banking process, interest rates, financial intermediaries and the banking system, financial instruments, time value of money concepts, security valuation and selection, and international finance. Graduate classification only. May not be used for elective credit by a master's candidate in business administration.

10. a. As currently in course inventory:

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   b. Change to:

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<td>1110</td>
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<td>6</td>
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</table>

   Approval recommended by:
   - R. T. Doe
   - Date: 9/16/16
   - Chair, College Review Committee
   - Date: 9/16/2015
   - Dean of College
   - Date: 11-5-15
   - Chair, GC or UCC

   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
FINC recently refreshed FINC 635 so that we could have the option of offering it either online or in the traditional classroom setting. We redesigned topic coverage so that students could take FINC 635 while co-enrolled in ACCT 640 or even without a previous course in accounting.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type: □ Undergraduate  ☑ Graduate  □ First Professional
2. Request submitted by (Department or Program Name): Department of Finance
3. Course prefix, number and complete title of course: FINC 685 Directed Studies
4. Change requested
   a. Prerequisite(s): From: ___________________________ To: ___________________________
   b. Withdrawal (reason): ___________________________
   c. Cross-list with: ___________________________

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

   d. Change in course title and description. Enter complete current course title and current course description in item 9, enter proposed course title and proposed course description in item 10. Complete item 11a and b for a change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11a and b. Attach a course syllabus.

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

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

8. Complete current course title and current catalog course description: Directed Studies. Credit 1 to 4 each semester. Directed study of selected problems using recent developments in business research methods. Classification 6 students may not enroll in this course. Prerequisites: Graduate classification and approval of instructor.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Directed Studies. Credit 0 to 6 each semester. Directed study of selected problems using recent developments in business research methods. Classification 6 students may not enroll in this course. Prerequisites: Graduate classification and approval of instructor.

10. As currently in course inventory:

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

   R. T. Dye  9/25/15
   Department Head or Program Chair (Type Name & Sign)  Date

   Chair, College Review Committee  9/25/14
   Dean of College  ___________________________

   Chair, GCC or UCC  ___________________________
   Date  11-5-15

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services  ___________________________
   Date  ___________________________

   Effective Date  ___________________________

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
FINC 685 — DIRECTED STUDIES
Section 601 — Fall 2016

Instructor: TBD
Office: TBD
Phone: TBD
E-Mail: TBD
Office Hours: TBD

COURSE DESCRIPTION

FINC 685 is a customized problems course supervised by a faculty member. Students request creation of a FINC 685 section by submitting an Application for Problems Course (attached) to the department head. The Application specifies credit hours (subject to approval from the directing faculty member and the department head), along with a description of the problems to be addressed and the techniques that will be used to tackle the problems. By design, learning objectives are unique for every section of FINC 685.

COURSE LEARNING OUTCOMES

At the completion of the course, successful students should be able to:

- Apply concepts learned in required FINC courses to solve academic or business-related problems that are not encountered in other established courses.

For example, a recent multi-disciplinary directed studies course provided students of finance, marketing, supply chain management and engineering an opportunity to work together with Boeing to develop a business plan for delivery of small packages and goods using autonomous air vehicles such as quad copters. Finance-related objectives for the project include

- Measure potential demand for autonomous delivery services.
- Specify financial operational requirements and performance objectives.
- Create a business plan and budget for the project.

CATALOG DESCRIPTION

Directed study of selected problems using recent developments in business research methods.

COURSE PREREQUISITES

Graduate classification and approval of instructor. Classification 6 students may not enroll in this course.
COURSE MATERIALS

Course materials vary by project and may include academic textbooks, practitioner-oriented publications, or materials provided by a corporate business partner.

GRADING AND COURSE REQUIREMENTS

Students are required to submit deliverables required by the project (such as a business plan in the Boeing example) or to submit a paper describing the problems encountered and approaches used to solve the problems. Letter grades follow the standard 90/80/70/60 scale.

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<td>60 - 69</td>
<td>D</td>
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<td>0 - 59</td>
<td>F</td>
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</table>

Required deliverables or term paper 100%

ATTENDANCE POLICY

The university views class attendance as an individual student responsibility. Students are expected to attend class and to complete all assignments.

MAKE-UP WORK POLICY

Students with excused absences will receive adequate time and opportunities to submit the required deliverables that are delayed due to those absences. To submit work under the "make-up" policy requires documentation as specified in the TAMU student rules (see Student Rules: Rule 7 – http://student-rules.tamu.edu).

Students with unexcused absences will receive no credit for missed deliverables.

LATE WORK POLICY

Any course deliverable turned in late will be discounted by 10% per day. "Late" means submitting deliverable any time after the assignment deadline has passed. Deliverables submitted more than 72 hours late will not be graded.

Exception: Students with excused absences will receive adequate time and opportunities to submit work they missed due to absence. Students must provide documentation and notice to the instructor as specified in TAMU student rules. (Student Rules: Rule 7 – http://student-rules.tamu.edu).
**STUDENTS WITH DISABILITIES**

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

**AGGIE HONOR CODE**

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

Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning, and to follow the philosophy and rules of the Honor System. Ignorance of the rules does not exclude any member of the TAMU community from the requirements or the processes of the Honor System. You can learn more about the Honor Council Rules and Procedures as well as your rights and responsibilities at the following URL:

[http://aggiehonor.tamu.edu](http://aggiehonor.tamu.edu)

For each assignment or project that is submitted for grading in this course, students must affirm their commitment to the Aggie Honor Code with the following statement.

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

Even if you do not explicitly state the above, by submitting any course deliverable, you affirm your adherence to the Aggie Honor Statement for that deliverable.

“Texas A&M University students are responsible for authenticating all work submitted to an instructor. If asked, students must be able to produce proof that the item submitted is indeed the work of that student. Students must keep appropriate records at all times. The inability to authenticate one’s work, should the instructor request it, is sufficient grounds to initiate an academic dishonesty case.” ([http://aggiehonor.tamu.edu/RulesAndProcedures/HonorSystemRules.aspx](http://aggiehonor.tamu.edu/RulesAndProcedures/HonorSystemRules.aspx))

I will follow the steps and processes outlined in the Honor Council Rules and Procedures in all cases of academic misconduct in this class (see [http://aggiehonor.tamu.edu/RulesAndProcedures](http://aggiehonor.tamu.edu/RulesAndProcedures)).

**STATEMENT ON PLAGIARISM**

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 offenses, for the plagiarist destroys the trust among colleagues without which research cannot be safely communicated. If you have any questions regarding plagiarism, please review additional information provided under Student Rule 20 and Aggie Honor System Rules under “Plagiarism” (see Student Rule 20 [http://student-rules.tamu.edu](http://student-rules.tamu.edu) and Aggie Honor System Rules [http://aggiehonor.tamu.edu/RulesAndProcedures/HonorSystemRules.aspx](http://aggiehonor.tamu.edu/RulesAndProcedures/HonorSystemRules.aspx)).
FOOD AND DRINK IN THE CLASSROOM

We have beautiful, state-of-the-art classrooms in the Wehner Building. We want to maintain the high quality of these classrooms for current and future students. Thus, it is necessary for you to adhere to the established policy of no beverages (except water), food, tobacco products, or like items within the Wehner Building classrooms.

COURSE SCHEDULE

By its nature, the directed studies course does not have regular meeting times. Students meet with the instructor periodically on an as needed basis.
Application for Directed Studies
FINC 685

To: Dr. Sorin Sorescu
FINC Department Head

From: ____________________________ _______________________
Name of Applicant (Please Print) UIIN

Subject: Request for enrollment in FINC 685 Directed Studies

1. I request enrollment in FINC 685 for the Spring / Summer / Fall semester, 20____ for _____ semester hours credit.

2. _________________________________ has agreed to direct this study.
   (Full name of faculty supervisor)

3. Describe briefly the problems to be solved. Add additional pages as necessary.

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

4. Describe the technique you will use to solve the problem(s). Provide a brief overview of experiments, statistics, readings, observations, etc., that will be employed.

   ________________________________________________________________
   ________________________________________________________________
   ________________________________________________________________

5. I have read and I understand the general directions on the reverse side of this application. My grade point average is _____, which meets the departmental requirement (3.0 or better overall and in FINC) for enrolling in a problems course.

6. I will submit three copies of this form, one each for the department head, faculty supervisor, and myself.

   Applicant Signature __________________________________________ Date __________
   Faculty Supervisor Signature ________________________________ Date __________
   Department Head Signature _________________________________ Date __________
Certain programs and colleges limit the total number of seminar, research, or directed studies courses that can appear in a curriculum. It is the student's responsibility to consult with an advisor to determine whether or not this problems course can appear in your degree plan.

Required activities for a Directed Studies course must be consistent with course loads for regularly scheduled courses. It is the faculty supervisor's responsibility to ensure that course requirements are adequate for the number of credit hours registered.
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): Marine Sciences
3. Course prefix, number and complete title of course: MARS 675 Environmental Management Strategies for Scientists

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-control-export-control-basics-for-distance-education).

8. Complete current course title and current catalog course description:
ENVIRONMENTAL MANAGEMENT STRATEGIES FOR SCIENTISTS. (2-0) Credit 2. The course is designed to provide and EMS strategist's skills with focus on international standards, including structure and elements of an EMS, determining how an effective EMS can reduce costs and increase profits, case studies. Prerequisites: graduate status or approval of instructor.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
ENVIRONMENTAL MANAGEMENT STRATEGIES FOR SCIENTISTS (3-0) Credit 3. The elements of EMS strategist's skills, including what environmental laws may be triggered by scientific activities; the fundamental structure of an EMS; EMS alternatives; concepts in an audit; uses of an effective EMS to reduce costs and increase profits. Prerequisite: graduate status or approval of instructor.

10. As currently in course inventory:

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

<table>
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<tr>
<th>Prefix</th>
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<th>Title (excluding punctuation)</th>
</tr>
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</tr>
</tbody>
</table>

Approval recommended by:

K. % Wind, Program Chair (Type Name & Sign) 9/10/15

Date

Chair, College Review Committee

Date

Dean of College

Date

Chair, GC or UGC

Date

Submitted to Coordinating Board by:

K. % Wind, Associate Director, Curricular Services 10/7/15

Effective Date

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

I am requesting a change in credit hours for MARS 675: Environmental Management Strategies for Scientists. The request increases the SCHs from 2 to 3 hours, the number of hours originally assigned to this course. The increase to 3 hours will better reflect the course content, contact hours, and overall expectations of students enrolled in the course.

Thanks for your consideration.

W.M. von Zharen, Regents Professor
Department of Marine Sciences
Texas A&M University at Galveston
dr_vonzharen@msn.com
MARS 675 – Environmental Management Strategies for Scientists (Distance Learning);
Professor W.M. von Zharen; dr_vonzharen@msn.com
Spring 2016 (3 credit hours)

Course Description and Prerequisites: The elements of EMS strategist’s skills, including what
environmental laws may be triggered by scientific activities; the fundamental structure of an EMS;
EMS alternatives; concepts in an audit; uses of an effective EMS to reduce costs and increase
profits. Prerequisite: graduate status or approval of instructor.

GENERAL GOAL: Environmental Management Strategies have become a critical component of
business and organizational strategies. This course explores the development and
implementation of this management system.

By the conclusion of this course, the student will be able to:
- Explain the origins of environmentalism
- Discuss the history of and explain the rationale for ISO 14001
- Apply the concepts of an EMS to a hypothetical company
- Discuss the economic benefits of implementing an EMS
- Discuss the role of stakeholders in an EMS strategy and the role of cultural diversity
  within an EMS

Specific objectives may be found at the beginning of each module.

REQUIRED TEXTBOOK (Available from the campus bookstore or Amazon):
1. von Zharen, ISO 14001: Positioning Your Organization for

Contacting Dr. von Zharen: Please email Dr. v via eCampus mail on the MARS 675 class,
which can be accessed through the eCampus link. Mail will be checked on a regular basis.

For questions that require a faster response, please use this email: dr_vonzharen@msn.com. Dr.
v is almost always available and ready to help!

LOGISTICS: READ CAREFULLY
1. DISTANCE LEARNING: The course is available via distance learning. All material will be
posted in the form of Modules, in Power Point, in eCampus. The eCampus can be
accessed through the eCampus link under the Howdy portal.
2. LOGISTICS MODULE: Module 0 is the Logistics module; read it carefully as well as
these instructions.
3. DISCUSSION: All modules are available to you on eCampus. There will be discussion
questions embedded in the modules. These questions are to be answered and
exchanged with a partner through the appropriate discussion board. You must also
critique and discuss your partner’s answers he/she exchanged with you.
4. PARTNER LIST; EXCHANGE WITH PARTNER; CHOOSING YOUR PARTNER EACH
WEEK: Each week, you will exchange with a partner. The TA will provide a list of
partners beginning with Module 1; however, if a student registers late or there are other
changes, a revised Partner List will be generated. So keep your eyes open for any
revised list.
5. MODULE QUIZ: Each module has a quiz at the end. You will take the quiz and
exchange your answers with your partner through the appropriate discussion board.
6. STUDENT QUIZ: You will also be developing five short answer questions (multiple choice or true/false – no fill-in-the-blank or sentence required answers) and answers from the required reading material noted at the beginning of each module. Exchange these with your partner for that module. When you provide the quiz answers, include the page number or slide number of the reading or other identification on which you found the material so that your partner can review her or his response more thoroughly.

7. COPY YOUR RESPONSES: Please copy all eCampus emails to Dr. v and the TA.

8. DO NOT BE LATE: Remember, if you are late on an assignment, this is penalizing your partner. DO NOT procrastinate. Always contact Professor von Zihren immediately with any questions.

9. RATE OF MODULE COMPLETION: Beginning with the first week of class, a module should be completed at the rate of one per week minimum.

10. WEEKLY DUE DATES: All modules, exchanges, and discussions are due by Sunday of each week. All partner critiques will be due no later than every Wednesday following the discussion post.

11. DON'T HAVE TYPOS OR GRAMMAR ISSUES: Use the spelling and grammar check programs on your computer and on eCampus; that includes checking for errors on any and all emails. Bad spelling and grammar make it difficult to read and understand your work and may result in a poor grade. If you have trouble writing and footnoting legal papers, 1) see The Elements of Style by Strunk and White (available online); 2) look over the “Ocean Governance” article by von Zihren and available on Lexis; and 3) ask someone to proofread your papers.

12. TIME REQUIRED EACH WEEK: For this course, a student is expected to dedicate a minimum of nine hours per week. And have a positive attitude; Dr. v. worked hard to make this course enjoyable as well as informative.

MEETING IN PERSON: Dr. v. will host an optional weekly meeting for anyone who would like to discuss EMS issues in person. Typically, it will be on Tuesday (or Wednesday) afternoon, from 3:00 - 5:00 p.m., but she will post the date.

METHODOLOGY AND GRADING:
The objectives of the course will be met through readings, modules including Camtasia lectures, and involvement in specific projects:

1. Current Module, Reading, Development of and Response to Quizzes AND Critiquing and Evaluation of Colleagues' Submission including final module – in other words, actively and effectively participating in all requirements by the due date (60%)

2. Research and Development of Interactive Environmental Management Strategy Module in PowerPoint with Camtasia and/or videos (35%)

3. Self-Evaluation (5%)

4. Bonus Modules: You may complete these at any time; if you don't complete any bonus module, you will not be penalized. If you do complete a bonus module, you will earn extra credit depending on how many you complete.

5. Bonus Points: Bonus points may be posted throughout the semester. They are optional.

Current Module, Reading, and Quizzes:

Current Power Point Modules: Within each module, there is a quiz and discussions; evaluate your partner's discussion and quizzes through the appropriate discussion board. The following provides a list of when specific modules are addressed as per the schedule noted in this syllabus and the logistics module (note that this comports with the chapters in the textbook):
Week 1 – Logistics
Week 2 – Genesis of Environmental Management Systems (EMS)
Week 3 – ISO 14000 Series and Tools
Week 4 – Benefits of Implementing ISO 14001 and Environmental Systems
Week 5 – Beginning the EMS Process
Week 6 and 7 – Environmental Policy
Week 8 – Planning
Week 9 – Implementation and Operation
Week 10 – Checking and Corrective Action
Week 11 – Management Review
Week 12 – Research Project Posted and Reviewed
Week 13 – Auditing and Certification
Week 14 – Case Study: Applying EMS Strategy

Research: Development of Interactive Environmental Management Strategy (EMS) Module in PowerPoint

Each student must select an EMS topic and develop a PowerPoint module with interactive components that emphasizes an area of interest to the student and would help meet a career goal and/or complements areas learned in the course. The module should be posted to eCampus by the 12th week of class. The module should be both informative and enjoyable to read. Include any relevant reading assignments, quizzes, videos, among other materials.

The module must be critiqued and evaluated by all other members of the class, not just a partner; these critiques should be posted to everyone in the class. These critiques are due 13th week of class. The student then has until the last "regular" day of class to make any final changes to her or his module and post it again.

It is critical that the student cite all sources including photos and videos. If the idea or photo is not your own (if the information did not come from your own scientific, legal, or management research), then you must give a reference citation at the exact place where the quote, paraphrasing, bulleting, photo, etc., is inserted in the PowerPoint. If you did not take the photo or your research did not arrive at a conclusion or a statistic, for example, then you must provide the source. Also, give a list of sources/references at the end of the presentation.

Critique and Evaluation of Colleagues’ Submission

Again, students must critique the questions and answers submitted. Development of species-specific modules should also be critiqued by everyone in the class.

Self-Evaluation

One of the most powerful complex structures of self-assessment in thinking is that of completing a global analysis of the strengths and weaknesses of your overall performance in class. Therefore, you are required to argue for a grade you believe you deserve and "make a case" for receiving a particular grade using criteria provided in this syllabus and citing specific evidence from your work throughout the semester. Understand that if you argue for a higher grade than you deserve, your grade will be negatively affected. However, an accurate documentation of a lower grade will raise that grade. For example, if you do an excellent job documenting that you have done "D" work on the course, then you will receive an "A" on the self-assessment, thereby raising your final grade by a certain percentage. The self-evaluation should be no fewer than two single-typed pages.
Grading Scale:
90 - 100% = A
80 - 89.9% = B
70 - 79.9% = C
60 - 69.9% = D
<59.9 = F

What Each Grade Represents:
F – The essence of F-level work is that the student demonstrated a pattern of non-critical thinking and/or failed to do the required work of the course. Typical characteristics of the work of a student who receives an F include: the student does not understand the basic nature of thinking in this subject area and does not display the related skills and abilities which are the heart of the course. The work at the end of the course is vague, imprecise, and unreasoned as it was in the beginning. There is little evidence that the student is genuinely engaged in the task of taking charge of her/his thinking. Many assignments appear to have been done pro forma with the student simply going through the motions without really putting any significant effort into thinking her or his way through them.

D – The essence of D-level work is that it demonstrates only a minimal level of understanding and skill in critical thinking in the course area. D work at the end of the course shows only occasional environmental thinking skills. Most assignments are poorly done. There is little evidence that the student is reasoning through the assignment in a critical manner. D work rarely shows any effort to take charge of ideas, assumptions, inferences, and intellectual processes. In general, D-level thinking lacks discipline and clarity.

C – The essence of C-level work is that it demonstrates more than a minimal level of skill, but it is also highly inconsistent with as many weaknesses as strengths. C-level work illustrates some but inconsistent achievement in grasping what environmental thinking is along with the development of modest critical thinking skills or ability. Though some assignments are reasonably well done, others are poorly done or at best are mediocre. On the whole, C-level work shows only modest and inconsistent reasoning and problem-solving skills.

B – The essence of B-level work is that it demonstrates more strengths than weaknesses and is more consistent in high level performance than C-level work. It nevertheless has some distinctive weaknesses though no major ones. B-level work represents demonstrable achievement in grasping what environmental thinking is. B-level work at the end of the course is, on the whole, clear, precise, and well-reasoned, though with occasional lapses into weak reasoning. The work demonstrates a mind beginning to take charge of its own ideas, assumptions, inferences, and intellectual processes with the student often analyzing issues clearly and precisely.

A – The essence of A-level work is excellence overall with no major weaknesses. A-level work demonstrates real achievement in grasping what environmental thinking is, along with the clear development of a range of specific skills and abilities. The work at the end of the course is, on the whole, clear, precise, and well-reasoned. The A-level students analyzes issues clearly and precisely, formulates information clearly, usually distinguishes the relevant from the irrelevant, recognizes key questionable assumption. A-level work displays excellent reasoning and problem-solving skills and is consistently at a high level of intellectual excellence.

BONUS MODULES
These will be posted as “Bonus Modules” and then the title. Select any you choose. Complete the module and then submit an evaluation of the module including telling me what worked to help you learn the subject matter as well as suggestions on how to improve the module if necessary.
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 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, Seibol Student Center, or call (409)740-4587. For additional information visit http://www.tamug.edu/counsel/services/dssprocedures.htm.

Academic Integrity Statement and Policy "An Aggie does not lie, cheat, or steal or tolerate those who do. For further details, refer to the Honor Council Rules and Procedures on the web: http://www.tamug.edu/HonorSystem.

Statement on Absences: Information concerning absences is contained in the University Student Rules Section 7. The University views class attendance as an individual student responsibility. All students are expected to attend class and to complete all assignments. Please consult the University Student Rules for reasons for excused absences, detailed procedures and deadlines as well as student grievance procedures (Part III, Section 45). http://www.tamug.edu/studentlife/Academic%20Rules/Rule%207.pdf.

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 and offers 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.
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 Education

2. Request submitted by (Department or Program Name):
   - Department of Performance Studies

3. Course prefix, number and complete title of course:
   - PERF605: Topics in Globalization and Performance

4. Change requested
   a. Prerequisite(s): PERF600 or approval of
      Instructors To: Graduate Classification
   b. Withdrawal (reason):
   c. Cross-list with:

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 (QMS)

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://vr.tamu.edu/resources/export-controlbasics-for-distance-education).

8. Complete current course title and current catalog course description:
   - PERF605: Topics in Globalization and Performance
     Examines expressive cultures in global contexts; theoretical and methodological approaches to globalization and performance, and as practices of everyday life. May be taken two times for credit.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   - PERF605: Globalization and Performance
     Examines global performances; theoretical and methodological approaches to globalization and performance, and as practices of everyday life.

10. As currently in course inventory:
    ![Course Inventory Table]

11. a. Change to:
    ![Course Inventory Table]

Questions regarding this form should be directed to Sandra Williams at 845-6201 or Sandra.Williams@tamu.edu
Curricular Services – 08/14
DATE: 7 October 2015

TO: Leroy Dorsey, Associate Dean, College of Liberal Arts

CC: Tiffany Green, Senior Administrative Coordinator, Office of the Dean, College of Liberal Arts

FROM: Kirsten Pullen, Associate Professor and Director of Graduate Studies

RE: Curricular Changes to the MA in Performance Studies

This memo details several curricular changes to the MA in Performance Studies. We are in the 6th year of offering the MA degree, and are revising the curriculum to reflect what we are doing in practice, rather than what we assumed we'd do when we developed the program.

Course Withdrawal:
- PERF612: Music Capitalism is being withdrawn because it has never been and never will be offered.

Course Changes:
- **PERF605**: Changing the name because the program does not actually offer topics courses; changing the description because it may not be taken twice; changing the prerequisites to bring it in line with other departmental prerequisites.
- PERF611: Changing the name to better reflect the content of the course; changing the description to better reflect the content of the course.
- PERF615: Changing the name to more clearly differentiate the course from PERF608 (see below); changing the description to better reflect the content of the course.
- PERF621: Changing the name because the program does not actually offer topics courses; changing the description because it may not be taken twice; changing the prerequisites to bring it in line with other departmental prerequisites.

Course Proposals:
- PERF606: Developed to take advantage of new faculty expertise.
- PERF607: Developed to take advantage of new faculty expertise.
- PERF608: Developed to take advantage of new faculty expertise.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
Submit original form and attachments

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

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

3. Course prefix, number and complete title of course:
   - PERF611: Contemporary Religions and Performance

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 course description in item 10. Complete item 11a and 11b for a change in title.

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

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://yvar.tamu.edu/resources/export-controlbasics-fordistance-education).

8. Complete current course and current catalog course description:
   - PERF611: Contemporary Religions and Performance
   - Examines the intricate relationship between religious traditions and performance. Focus on contemporary religious movements.

   Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   - PERF611: Religions, Spiritualities, and Performance
   - Examines global performances; theoretical and methodological approaches to globalization and/in performance and/as practices of everyday life.

9. a. As currently in course inventory:
   - PERF 611: Contemp Religions & Perf
     - Credit: 3
     - Level: 3
     - Type: 0
     - Method: 30010
     - Schedule: 2196
     - Syllabus: 3
     - Text: 6

   b. Change to:
   - PERF 611: Religions Spirit Performance
     - Credit: 3
     - Level: 3
     - Type: 0
     - Method: 30010
     - Schedule: 2196
     - Syllabus: 16
     - Text: 6

   Approval recommended by:
   - Department Head or Program Chair (Type Name & Sign): [Signature]
   - Date: Oct 13, 2015
   - Chair, College Review Committee: [Signature]
   - Date: Oct 13, 2015
   - Dean of College: [Signature]
   - Date: Oct 13, 2015

   Submitted to Coordinating Board by:
   - Chair, GC or UCC: [Signature]
   - Date: [Signature]

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- PERF608: Developed to take advantage of new faculty expertise.
### Texas A&M University

**Departmental Request for a Change in Course**

**Undergraduate + Graduate + Professional**

*Submit original form and attachments*

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**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 Performance Studies

3. **Course prefix, number and complete title of course:**
   - **PERF615:** Spectacle, Performance, and Politics

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.

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 (CLEP)

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.tamud.edu/resources/export-control-basics-for-distance-education)

8. **Complete current course title and current catalog course description:***
   - **PERF615:** Spectacle, Performance, and Politics
   - Interdisciplinary and international exploration of spectacle as political performance.

9. **Complete proposed course title and proposed catalog course description (not to exceed 50 words):**
   - **PERF615:** Spectacle and Performance
   - Examines various popular performances as spectacle.

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### Current Course Inventory:

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**Change to:**

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**Approval recommended by:**

Donna Lee Dox ______________ Oct 15, 2015

Department/Program Chair (Type Name & Sign) ______________ Date ______________

Chair, Course Review Committee ______________ Date ______________

Dean of College ______________ 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
DATE: 7 October 2015

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- PERF608: Developed to take advantage of new faculty expertise.
Texas A&M University

Departmental Request for a Change in Course

Undergraduate • Graduate • Professional

Submit original form and attachments

From Instructions:

1. Course request type: [Graduate]
2. Request submitted by (Department or Program Name): Department of Performance Studies
3. Course prefix, number and complete title of course: PERF621: Topics in Popular Music Studies

4. Change requested:
   a. Prerequisite(s): From: 200- or approval of instructor 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?: [No]
6. If grade type is changing for existing course, indicate the new grade type: [Grade]
7. If this course will be stacked, please indicate the course number of the stacked course: [Yes]
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vpr.tamu.edu/resources/export-control/export-control-basics-for-distance-education)
9. Complete current course title and current catalog course description: PERF621: Topics in Popular Music Studies
   Examination of context, politics, and political economy of specific popular music forms. May be repeated for a total of 9 credits.
10. Complete proposed course title and proposed catalog course description (not to exceed 50 words): PERF621: Graduate Studies in Popular Music Research
    Examination of context, politics, and political economy of specific popular music forms.

11. a. As currently in course inventory:

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<th>Title (including pronunciation)</th>
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b. Change to:

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<thead>
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<th>Title (including pronunciation)</th>
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</thead>
<tbody>
<tr>
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<td>Grad Stud Pop Music Research</td>
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<tr>
<td>Text</td>
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</table>

Approval recommended by: Donnie Doss
Department Head or Program Chair (Type Name & Sign) Date 10-12-15

Chair, College Review Committee

Department Head or Program Chair (Type Name & Sign) Date 11-5-15

Chair, GC or UCC

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services -- 08/14
DATE: 7 October 2015

TO: Leroy Dorsey, Associate Dean, College of Liberal Arts

CC: Tiffany Green, Senior Administrative Coordinator, Office of the Dean, College of Liberal Arts

FROM: Kirsten Pullen, Associate Professor and Director of Graduate Studies

RE: Curricular Changes to the MA in Performance Studies

This memo details several curricular changes to the MA in Performance Studies. We are in the 6th year of offering the MA degree, and are revising the curriculum to reflect what we are doing in practice, rather than what we assumed we’d do when we developed the program.

Course Withdrawal:
• PERF612: Music Capitalism is being withdrawn because it has never been and never will be offered.

Course Changes:
• PERF605: Changing the name because the program does not actually offer topics courses; changing the description because it may not be taken twice; changing the prerequisites to bring it in line with other departmental prerequisites.
• PERF611: Changing the name to better reflect the content of the course; changing the description to better reflect the content of the course.
• PERF615: Changing the name to more clearly differentiate the course from PERF608 (see below); changing the description to better reflect the content of the course.
• PERF621: Changing the name because the program does not actually offer topics courses; changing the description because it may not be taken twice; changing the prerequisites to bring it in line with other departmental prerequisites.

Course Proposals:
• PERF606: Developed to take advantage of new faculty expertise.
• PERF607: Developed to take advantage of new faculty expertise.
• PERF608: Developed to take advantage of new faculty expertise.
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 Information and Operations Management
3. Course prefix, number and complete title of course: SCMT 610. Quantitative Analysis for Business Decisions

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

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

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

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

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

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

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

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

9. Complete current course title and current catalog course description:
   Quantitative Analysis for Business Decisions.
   Formulation and structuring of business problems using selected quantitative techniques; modeling and statistical analysis stress computer applications.

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

11. a. As currently in course inventory:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-----------------------------|
    | SCMT   | 610      | QUANT ANALY BUAD DECIS     |

    | Lect  | Lab  | Other | SCH | CP and Fund Code | Admin. Unit | Year | HCE Code |
    |-------|------|-------|-----|-----------------|-------------|------|----------|
    | 3.00  | 0.00 | 3.00  | 5213010016 | 1634          | 0           | 3    | 3 2 6    |

    b. Change to:

    | Prefix | Course # | Title (excluding punctuation) |
    |--------|----------|-----------------------------|
    | SCMT   | 610      | BUSINESS ANALYTICS         |

    | Lect  | Lab  | Other | SCH | CP and Fund Code | Admin. Unit | Year | HCE Code |
    |-------|------|-------|-----|-----------------|-------------|------|----------|
    | 3.00  | 0.00 | 3.00  | 5213010016 | 1634          | 0           | 3    | 6 3 2    |

Approval recommended by:

Dr. Rich Matters

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

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

Submitted to Coordinating Board by:

Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14
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 (DDS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):
   Visualization
3. Course prefix, number and complete title of course:
   VIZA 617 Advanced Animation

Change requested
a. Prerequisite(s):
   - From:
   - To:
   VIZA 615 or approval of instructor
   VIZA 613 or approval of instructor
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:
   
8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://vrp.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).

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

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

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b. Change to:

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</table>

Approval recommended by:
Frederic I. Parke

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

Chair, Review Committee

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

Dean of College

Submitted to Coordinating Board by:

Associate Director, Curricular Services

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

Curricular Services – 08/14
October 15, 2015

Rationale for requested VIZA catalog changes

The requested prerequisite change for VIZA 617 recognizes that VIZA 613 is sufficient preparation.

The requested prerequisite changes for VIZA 629, VIZA 630, VIZA 631, VIZA 658 and VIZA 680 are minor and intended to more clearly communicate the needed preparation for these courses.

For VIZA 622 and VIZA 643, changes are needed because the currently listed VIZA 612 prerequisite is no longer taught on a regular basis, while the regularly taught VIST 465 can serve as the needed prerequisite.

For VIZA 627, the prerequisite needs to reflect that explicit instructor permission is required and to recognize that VIZA 613 also provides sufficient preparation.

The requested minor changes to the VIZA 691 and VIZA 693 descriptions are intended to clarify the distinction between these two courses for our MS and MFA students.

Frederic I. Parke, Ph.D., Professor
Associate Department Head
Graduate Programs Coordinator
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): Visualization
3. Course prefix, number and complete title of course: VIZA 622 Design Communication I

Change requested
a. Prerequisite(s): From: VIZA 612, graduate classification or approval of instructor. To: VIST 465 or equivalent, graduate classification or approval of instructor.
b. Withdrawal (reason): 
c. Cross-list with: 

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 (CLMO)
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 Controls Basics for Distance Education (http://vcr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:

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

11. a. As currently in course inventory:

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b. Change to:

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<th>Course</th>
<th>Title (excluding punctuation)</th>
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</table>

Approval recommended by:
Frederic L. Parne 10/16/15

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

Committee on Graduate Studies Chair, College/Division Committee Date

Dean of College Chair, CC or UCC

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
October 15, 2015

Rationale for requested VIZA catalog changes

The requested prerequisite change for VIZA 617 recognizes that VIZA 613 is sufficient preparation.

The requested prerequisite changes for VIZA 629, VIZA 630, VIZA 631, VIZA 658 and VIZA 680 are minor and intended to more clearly communicate the needed preparation for these courses.

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For VIZA 627, the prerequisite needs to reflect that explicit instructor permission is required and to recognize that VIZA 613 also provides sufficient preparation.

The requested minor changes to the VIZA 691 and VIZA 693 descriptions are intended to clarify the distinction between these two courses for our MS and MFA students.

Frederic I. Parke, Ph.D., Professor
Associate Department Head
Graduate Programs Coordinator
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 (D.D.S., M.D., Pharm.D, D.V.M)
2. Request submitted by (Department or Program Name): Visualization
3. Course prefix, number and complete title of course: VIZA 627 Design Communication II

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<th>VIZA 613 or VIZA 622 or VIZA 643 and approval of instructor.</th>
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<td>Withdrawal (reason):</td>
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<tr>
<td>c. Cross-list with:</td>
<td></td>
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</table>

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

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

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

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

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

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

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

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

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

11. As currently in course inventory:

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<th>Prefix</th>
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b. Change to:

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</tr>
</tbody>
</table>

Approval recommended by:

Frederic L. Parke
Department Head or Program Chair (Type Name & Sign)  Date

Chair, College Review Committee  Date

Dean of College  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
October 15, 2015

Rationale for requested VIZA catalog changes

The requested prerequisite change for VIZA 617 recognizes that VIZA 613 is sufficient preparation.

The requested prerequisite changes for VIZA 629, VIZA 630, VIZA 631, VIZA 658 and VIZA 680 are minor and intended to more clearly communicate the needed preparation for these courses.

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Frederic I. Parke, Ph.D., Professor
Associate Department Head
Graduate Programs Coordinator
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): Visualization

4. Change requested
   a. Prerequisite(s) From: Graduate classification in visualization or approval of instructor. To: Graduate classification or approval of instructor.
   b. Withdrawal (reason): [Blank]
   c. Cross-list with: [Blank]

5. Cross-listed courses require the signature of both department heads.
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:
   □ Yes □ No
8. 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.
9. Change in course title and current catalog course description:

Complete current course title and current catalog course description:

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

   a. As currently in course inventory:
      Prefix Course# Title (excluding punctuation)
      [Blank]
      CIP and Fund Code Admin Unit Level
      [Blank]

   b. Change to:
      Prefix Course# Title (excluding punctuation)
      [Blank]
      CIP and Fund Code Admin Unit Level
      [Blank]

Approval recommended by:
Frederic I. Parks
Department Head or Program Chair (Type Name & Sign)

Date

Chair, College Review Committee
Date

Dean of College
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
Rationale for requested VIZA catalog changes

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Frederic I. Parke, Ph.D., Professor
Associate Department Head
Graduate Programs Coordinator
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

<table>
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<th>Form Instructions</th>
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<td>6. If grade type is changing for existing course, indicate the new grade type:</td>
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<td>7. If this course will be stacked, please indicate the course number of the stacked course:</td>
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</tbody>
</table>

**Required courses require the signature of both department heads.**

8. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education [http://vpr.tamu.edu/resources/export-control/export-control-basics-for-distance-education](http://vpr.tamu.edu/resources/export-control/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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<td>b. Change to:</td>
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Approval recommended by:

Frederic I. Parke

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

Chair, College Review Committee

Date

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

(If cross-listed courses)

Dean of College

Date

Submitted to Coordinating Board by:

Chair, GC or UGC

Date

Associate Director, Curricular Services

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

Curricular Services – 08/14

[RECEIVED] 16 Oct 2015

CURRICULAR SERVICES
October 15, 2015

Rationale for requested VIZA catalog changes

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Frederic I. Parke, Ph.D., Professor
Associate Department Head
Graduate Programs Coordinator
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 (DO, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Visualization
3. Course prefix, number and complete title of course: VIZA 631 Contemporary Art Studio/Seminar II

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<td>c. Cross-list with:</td>
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</table>

Cross-listed courses require the signature of both departments.

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-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):

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
</tr>
</thead>
<tbody>
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<th>Text</th>
<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CRN and Land Code</th>
<th>Admin. Unit</th>
<th>HCL Code</th>
<th>Level</th>
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<td>03 63 32</td>
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</tr>
</tbody>
</table>

b. Change to:

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

Approval recommended by:
Frederic L. Parks
Department Head or Program Chair (Type Name & Sign) Date 10/10/15
Chair, College Review Committee Date 10/16/15

Department Head or Program Chair (Type Name & Sign) Date 10/16/15
(If cross-listed course)

Submitted to Coordinating Board by:
Chair, Graduate or Undergraduate Committee Date 11/5/15

Effective Date: OCT 1 5 2015

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu
Curricular Services - 08/14
October 15, 2015

Rationale for requested VIZA catalog changes

The requested prerequisite change for VIZA 617 recognizes that VIZA 613 is sufficient preparation.

The requested prerequisite changes for VIZA 629, VIZA 630, VIZA 631, VIZA 658 and VIZA 680 are minor and intended to more clearly communicate the needed preparation for these courses.

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The requested minor changes to the VIZA 691 and VIZA 693 descriptions are intended to clarify the distinction between these two courses for our MS and MFA students.

Frederic I. Parke, Ph.D., Professor
Associate Department Head
Graduate Programs Coordinator
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 (DOS, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): Visualization
3. Course prefix, number and complete title of course: VIZA 643 Time Based Media

Change requested
4. a. Prerequisite(s): From: VIZA 612 or approval of instructor
    To: VIST 485 or equivalent, graduate classification in visualization or approval of instructor.
   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. 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-control/export-basics-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):

a. As currently in course inventory:
   Prefix:
   Course:
   Title (including punctuation):

   Lect.  Lab  Other  SCH  CP and Field Code  Admin Unit  ELT Code  Level

   0  0  3  6  3  2

b. Change to:
   Prefix:
   Course:
   Title (excluding punctuation):

   Lect.  Lab  Other  SCH  CP and Field Code  Admin Unit  ELT Code  Level

   0  0  3  6  3  2

Approval recommended by:
Frederic L. Parke  Date

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

Department Head or Program Chair (Type Name & Sign)  Date
(If cross-listed course)
Dean of College  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
October 15, 2015

Rationale for requested VIZA catalog changes

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Frederic I. Parke, Ph.D., Professor
Associate Department Head
Graduate Programs Coordinator
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):
   Visualization
3. Course prefix, number and complete title of course:
   VIZA 658 Experimental Visual Techniques.

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

   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).

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

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

11. As currently in course inventory:

   a. Prefix
      Course #
      Title (excluding punctuation)

      | Feet | Lab | Other | SCH | CP and Fund Code | Adjunct | Unit | HIC Code | Level |
      |------|-----|-------|-----|------------------|---------|------|----------|-------|
      |      |     |       | 0   | 0                | 0       | 36  | 3        | 2     |

   b. Change to:

      a. Prefix
         Course #
         Title (excluding punctuation)

         | Feet | Lab | Other | SCH | CP and Fund Code |
         |------|-----|-------|-----|------------------|

      Approval recommended by:
      Frederic I. Parks

      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

[Stamp: RECEIVED: OCT 16 2015, CURRICULAR SERVICES]
October 15, 2015

Rationale for requested VIZA catalog changes

The requested prerequisite change for VIZA 617 recognizes that VIZA 613 is sufficient preparation.

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Frederic I. Parke, Ph.D., Professor
Associate Department Head
Graduate Programs Coordinator
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):

3. Course prefix, number and complete title of course:
   VIZA 880 Professional Practice in Visualization

Change requested
a. Prerequisite(s): From:
   Graduate classification
b. Withdrawal (reason):
   Graduate classification in visualization and approval of instructor.
c. Cross-list with:
   Crosslisted 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 (CIMD)
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. As currently in course inventory:
    Prefix     Course     Title (excluding punctuation)
                           
    Lect.    Lab.    Other    SCH    CIP and Fund Code   Admin. Unit   HIC Code   Level
                           
    Prefix     Course     Title (excluding punctuation)
                           
    Lect.    Lab.    Other    SCH    CIP and Fund Code   Admin. Unit   Head. Year   HIC Code   Level
                           
Approval recommended by:
Frederic L. Parks

Department Head or Program Chair (Type Name & Sign)

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

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

RECEIVED OCT 15 2013 CURRICULAR SERVICES
October 15, 2015

Rationale for requested VIZA catalog changes

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Frederic I. Parke, Ph.D., Professor
Associate Department Head
Graduate Programs Coordinator
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 (D.O., MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name):
   Visualisation
3. Course prefix, number and complete title of course:
   VIZA 091 Research
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 9; enter proposed course title and proposed course description in item 10. Complete item 11 a and b for a change in title:
   a. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11 a and b. Attach a course syllabus.
   b. Grade type is changing for existing course, indicate the new grade type:
      - [ ] Grade
      - [ ] S/U
      - [ ] P/F (CLAD)
   c. If course will be stacked, please indicate the course number of the stacked course:
      [ ] Yes
      [ ] No
   d. I verify that I have reviewed the FAQ for Export Controls Basics for Distance Education (http://vplex.tamu.edu/resources/export-controls-export-controls-basics-for-distance-education).
6. Complete current full title course name, and current catalog course description:
   Research. Credit 1 or more each semester. Research for preparation of thesis. Prerequisite: Approval of Instructor.
7. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Research. Credit 1 or more each semester. Research for preparation of MS thesis. May be repeated for credit. Prerequisites: Graduate classification in visualization and approval of Instructor.

8. As currently in course inventory:
   - [ ] Yes
   - [ ] No

9. Change to:
   - [ ] Yes
   - [ ] No

10. Approval recommended by:
    Frederic Lee

11. 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@ct.tamu.edu
Curricular Services – 08/14
October 15, 2015

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Associate Department Head
Graduate Programs Coordinator
Texas A&M University
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Undergraduate • Graduate • Professional
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Form Instructions
1. Course request type: ☐ Undergraduate ☑ Graduate ☐ First Professional (DO, MD, JD, PharmD, DVM)
2. Request submitted by (Department or Program Name): VISUALIZATION
3. Course prefix, number and complete title of course: VIZA 6803 Professional Study

Change requested
4. Prerequisite(s): From: ☑  To: ☑
5. Withdrawal (reason): ☑
6. Cross-list with: ☑

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 1a and b for a change in title.
7. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 1a 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 ☐ 0/2 U ☐ P/F (C/L)
10. If this course will be stacked, please indicate the course number of the stacked course:
11. If I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://oer.tamu.edu/resources/Export-Controls-Basics-for-Distance-Education), ☑
12. Complete current course title and current catalog course description:
   Professional Study, Credit 1 to 8. Research and writing combined with studio projects; prepare and present a public exhibition of a final body of work; related paper submitted to a scholarly journal as approved by the committee Chair. May be repeated for credit. Prerequisite: MFA in VISUALIZATION; graduate classification.
13. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Professional Study, Credit 1 to 8. Research and writing combined with MFA studio projects; prepare and present a public exhibition of a final body of work; submit a related scholarly journal paper as approved by the committee Chair. May be repeated for credit. Prerequisite: Graduate classification in VISUALIZATION and approval of instructor.

14. As currently in course inventory:
   [Space for course information]
15. As change to course:
   [Space for course information]

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

Questions regarding this form should be directed to Sandra Williams at 945-8201 or sandra.williams@tamu.edu.
Curricular Services – 08/14

RECEIVED OCT 16 2015
October 15, 2015

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Associate Department Head
Graduate Programs Coordinator