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

Form Instructions
1. Course request type: □ Undergraduate □ Graduate □ First Professional (ex. DVM, JD, MD, etc.)
2. Request submitted by (Department or Program Name): Baylor College of Dentistry, Department of Biomedical Sciences
3. Course prefix, number and complete title of course: BIMS 5126 RESPONSIBLE CONDUCT IN BIOMEDICAL RESEARCH

Attach a brief supporting statement for changes made to items 4 through 6 below.

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

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

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

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

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

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

7. □ 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: RESPONSIBLE CONDUCT IN BIOMEDICAL RESEARCH
   A discussion of issues relating to ethical conduct and research. Offered spring semester of odd years. Decho, 0.5 sem. hr., Spring

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Responsible Conduct in Biomedical Research

10. a. As currently in course inventory:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
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<tr>
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<td>5126</td>
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<th>Admin. Unit</th>
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b. Change to:

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</table>

Approval recommended by:
Kathy Svoboda 6-19-14

Chair, College Review Committee 6/24/14

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

Submitted to Coordinating Board by:

Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
4e – NIH has increased their requirements for Responsible Conduct in Research courses. We are requesting that this course be changed from a .5 cr hr course to a 1 cr. hr. course. The old course was a seminar/journal club where specific examples were discussed in 8 contact hrs. The new course is modeled after the College of Medicine SGS 601 course with 11 hrs of lecture and 5 hrs of student presentations (see syllabus).
TEXAS A&M UNIVERSITY Baylor College of Dentistry
RESPONSIBLE CONDUCT IN BIOMEDICAL RESEARCH
BIMS 5126

Spring
Noon, TBD

Course Description and Prerequisites

Responsible Conduct of Research (RCR) is defined by NIH as the practice of scientific investigation with integrity. It involves the awareness and application of established professional norms and ethical principles in the performance of all activities related to scientific research. Responsible conduct of research is an essential component of research training. This course is designed as a survey of basic topics that trainees will need to understand as they enter into the practice of research. The course will utilize outside reading assignments, class presentation and discussion of cases or publications associated with each topic. No prerequisites.

Learning Outcomes

Course Objective:
The objective of this course is to provide awareness and application of professional norms and ethical principles in the performance of all activities related to scientific research, including mechanisms to promote honesty, accuracy, efficiency and objectivity in research.

Instructor Information

Name          Kathy Svoboda
Telephone number      214 828 8487
Email address       ksvoboda@bcd.tamhsc.edu
Office hours       4-5pm
Office location    TAMUBCD 430

Textbook and/or Resource Material
There is no required text, but there may be handouts and suggested reading material.

**Grading Policies**

<table>
<thead>
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<th>Class Participation/homework</th>
<th>(75%)</th>
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</thead>
<tbody>
<tr>
<td>Oral Presentation</td>
<td>(25%)</td>
</tr>
</tbody>
</table>

**Grades:**

- 100-90%: A
- 80-89%: B
- 70-79%: C
- 60-69%: D
- 0-59%: F

**Attendance and Make-up Policies**

If an absence is excused, the instructor will either provide the student an opportunity to make up any quiz, exam or other work that contributes to the final grade or provide a satisfactory alternative by a date agreed upon by the student and instructor. The make-up work must be completed in a timeframe not to exceed 30 calendar days from the last day of the initial absence.

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

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

7) Required participation in military duties.
8) Mandatory admission interviews for professional or graduate school that cannot be rescheduled.

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

Course Topics, Calendar of Activities, Major Assignment Dates

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Instructors</th>
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</thead>
<tbody>
<tr>
<td>One</td>
<td>Introduction to the course and semester planning</td>
<td>K. Svoboda</td>
</tr>
<tr>
<td>Two</td>
<td>Introduction/ Choosing a lab: Mentor/Mentee Responsibilities</td>
<td>K. Svoboda</td>
</tr>
<tr>
<td>Objective:</td>
<td>Tips on the process of selecting a laboratory. understanding the role and responsibilities of both the mentor and mentee, and how to ensure success with the relationship.</td>
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<tr>
<td>Three</td>
<td>Data Acquisition/Keeping a Notebook</td>
<td>D. Benson</td>
</tr>
<tr>
<td>Objective:</td>
<td>Rules and good practices on how researchers should collect, store, protect, and share data, while maintaining its integrity, validity, and accuracy.</td>
<td></td>
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First homework assignment

| Four | Introduction to Research Compliance | L. Bellinger |
| Objective: | Describes research compliance activities, including information related to an investigator’s institutional responsibilities, informal codes of conduct and common practices. |

First homework assignment due

| Five | Human (Compliance IRB) | E. Schniederman |
| Objective: | The history, ethical principles, regulations. and institutional responsibilities related to the use of humans in research. Including what the IRB committee requires for a successful project. |
Six
Objective: Human: Faculty Discussion
Working in the system for clinical studies from
active researchers, including mechanisms for
initiating, implementing, and concluding research
activities.
H. Tapias and L. Opperman

Seven
Objective: Animal Use in Research (AUP)
The history, ethical principles, regulations, and
institutional responsibilities related to the use of
animals in research. Including what the IACUC
committee needs to approve a project.
K. Svoboda

Second homework assignment

Eight
Objective: Animal Use: Faculty Discussion
Discussion of how animals are used for dental research.
K. Svoboda, P. Kramer and J. Feng

Second homework assignment due

Nine
Objective: Biosafety
Discussion of safety practices within a
laboratory, biological risk groups and
biosafety levels, and safeguards related to
working with recombinant DNA.
A. Honeyman

Ten
Objective: Conflict of Interest
Discussion of research conflicts of interests,
including the regulations, investigator
reporting obligations, and institutional
responsibilities to assess and then manage,
reduce, or eliminate identified conflicts.
L. Opperman

Eleven
Objective: Copyrights of authors
Discussion of copyright law and how it
relates to student projects and the thesis.
L. Opperman

Take home exam distributed

Twelve
Objective: Publication/Authorship/Peer Review
Discussion of authorship good practices;
reviewing manuscripts and grants; and
sharing results with others through
informal communications, oral
presentations, scholarly publications, and
public statements.
K. Svoboda
Thirteen  
Scientific fraud – plagiarism  
L. Opperman  
Discussion of citation bias, image/data manipulation, plagiarism and other fraudulent practices and what tools have been developed to detect these problems before journals will publish the work.

Fourteen  
Objective:  
Student led discussion.  
The students will find a current case and discuss it.

POSSIBLE TOPICS:  
Scientific Misconduct /Fraud  
Scientist as responsible member of society  
Plagiarism and correct citation

Fifteen  
Take home exam due

Other Pertinent Course Information

FERPA:
The Federal Education Rights & Privacy Act, requires that we advise students that by registering for this course, their HSC assigned e-mail address will be revealed to classmates and the instructor. By continuing your enrollment in the course you acknowledge your understanding of this policy.

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

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

"An Aggie does not lie, cheat, or steal, or tolerate those who do."
Academic integrity is the pursuit of scholarly activity free from fraud and deception and is an educational objective of this institution. Academic Dishonesty Students are expected to adhere to all TAMUS, HSC, and SGS policies regarding academic integrity and classroom conduct. Academic integrity is the pursuit of scholarly activity free from fraud and deception. Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabricating information or citations, facilitating acts of academic dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used, or tampering with the academic work of another student. Individuals found guilty of academic dishonesty may be dismissed from the degree program, and at a minimum will receive an F for the course. It is the student’s responsibility to have a clear understanding of how to reference other individuals’ work, as well as having a clear understanding in general as to the various aspects of academic dishonesty. A tutorial on this issue is available on myHsc at:
http://libraryasp.tamu.edu/it/InfoLit/InfoEthics/AcadInteg.html

Attendance in this course assumes each student will adhere to the principles and practices addressed in the tutorial.

**Equal Opportunity Statement:**
The Texas A&M Health Science Center is an Equal Opportunity/ Affirmative Action employer. Inquiries regarding nondiscrimination policies may be directed to the Human Resources Officer by phone at (979) 458-7280 or by mail at 301 Tarrow, 6th Floor, College Station, Texas 77845.
Texas A&M University
Departmental Request for a Change in Course
Undergraduate • Graduate • Professional
• Submit original form and attachments •

Form Instructions
1. Course request type:
   - Undergraduate
   - Graduate
   - First Professional (e.g., DVM, JD, MD, etc.)

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

3. Course prefix, number and complete title of course: MATH 662. Seminar in Algebra

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 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.

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

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

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

7. □ 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: Seminar in Algebra. Problems, methods and recent developments in algebra. May be taken five times for credit as content varies.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Seminar in Algebra. Problems, methods and recent developments in algebra. May be repeated for credit.

10. a. As currently in course inventory:

   Prefix | Course # | Title (excluding punctuation)
   -------|----------|-------------------------------
   MATH   | 662      | SEMINAR IN ALGEBRA

   Lect. | Lab | SCH | CIP and Fund Code | Admin. Unit | FICE Code | Level
   0     | 3   | 0   | 0                 | 2            | 7          | 0       | 1     | 8    | 7            | 5          | 0       | 3   | 6   | 3   | 2   | 6

   b. Change to:

   Prefix | Course # | Title (excluding punctuation)

   Lect. | Lab | SCH | CIP and Fund Code | Admin. Unit | Acad. Year | FICE Code
   -------|-----|-----|-------------------|-------------|------------|-----------
   0     | 3   | 0   | 0                 | -           | 0          | 3   6   3   2

   Approval recommended by: Peter Howard 6/24/2014
   Department Head or Program Chair (Type Name & Sign) Date

   Chair, College Review Committee Date 6/27/14
   Dean of College Date
   Chair, GC or UCC 7/21/14

   Submitted to Coordinating Board by:

   Associate Director, Curricular Services Date

   Effective Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
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 (e.g., DVM, JD, MD, etc.)

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

3. Course prefix, number and complete title of course:
   MATH 663. Seminar in Analysis

   Attach a brief supporting statement for changes made to items 4a thru 4d, and 6 below.

4. Change requested
   a. Prerequisite(s):
      From: __________________________ To: __________________________
   b. Withdrawal (reason):
      __________________________
   c. Cross-list with:
      __________________________ (Cross-listed courses require the signature of both department heads.)
   d. Change in course title and description.
      Enter complete current course title and current course description in item 5; enter proposed
course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.

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

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

7. [X] I verify that I have reviewed the FAQ for Export Control Basics for Distance Education

8. Complete current course title and current catalog course description:
   Seminar in Analysis. Problems, methods and recent developments in analysis. May be taken five times for credit as content varies.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   Seminar in Analysis. Problems, methods and recent developments in analysis. May be repeated for credit.

10. a. As currently in course inventory:

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Approval recommended by:
Pete Howard 6/26/2014

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

Chair, College Review Committee 6/27/14

Dean of College 7/21/14

Submitted to Coordinating Board by:

Chair, GC or UCC

Date

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

Curricular Services – 04/14
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 (e.g., DVM, JD, MD, etc.)

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

3. Course prefix, number and complete title of course:  MATH 664. Seminar in Applied Mathematics

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

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

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

7. [ ] 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:  Seminar in Applied Mathematics. Problems, methods and recent developments in applied mathematics. May be taken five times for credit as content varies.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):  Seminar in Applied Mathematics. Problems, methods and recent developments in applied mathematics. May be repeated for credit.

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<td>664</td>
<td>SEMINAR IN APPLIED MATHEMATICS</td>
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   Lect.  Lab  SCH  CIP and Fund Code  Admin. Unit  EICE Code  Level
   0 3 0 0 0 3 2 7 0 3 0 1 1 0 0 1 8 7 5 0 0 3 6 3 2 6

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   Approval recommended by:  [Signature]  6/26/2014
   Department Head or Program Chair (Type Name & Sign)  Date

   Chair, College Review Committee  Date  6/27/14

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

   Chair, GC or SFE  Date  7-21-14

   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 – 04/14
Texas A&M University
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Form Instructions:
1. Course request type:
   - [ ] Undergraduate  [x] Graduate  [ ] First Professional (e.g., DVM, JD, MD, etc.)
2. Request submitted by (Department or Program Name):
   Department of Mathematics
3. Course prefix, number and complete title of course:
   MATH 666, Seminar in Geometry

Attach a brief supporting statement for changes made to items 4a thru 4d and 6 below.

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 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
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5. Is this an existing core curriculum course?
   - [ ] Yes  [x] No
6. If this course will be stacked, please indicate the course number of the stacked course:

7. [ ] 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: Seminar in Geometry. Problems, methods and recent developments in geometry. May be taken five times for credit as content varies.

9. Complete proposed course title and proposed catalog course description (not to exceed 50 words): Seminar in geometry. Problems, methods and recent developments in geometry. May be repeated for credit.

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<td>SEMINAR IN GEOMETRY</td>
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Approval recommended by:

[Signature]
[Date: 6/27/14]

Department Head or Program Chair (Type Name & Sign)
Chair, College Review Committee
Date: 6/27/14

Dean of College
Date: 7/21/14

Submitted to Coordinating Board by:
Chair, GC or UCC
Date: 7/21/14

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra.williams@tamu.edu.
Curricular Services – 04/14
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 (e.g., DVM, JD, MD, etc.)
2. Request submitted by (Department or Program Name):  Department of Mathematics
3. Course prefix, number and complete title of course:  MATH 669, Seminar in Mathematical Biology
4. Change requested
   a. Prerequisite(s):  From:  
   b. Withdrawal (reason):  
   c. Cross-list with:  
   d. Cross-listed courses require the signature of both department heads.
5. Is this an existing core curriculum course?  
   - Yes  
   - No
6. If this course will be stacked, please indicate the course number of the stacked course:
7. 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 proposed course title and proposed catalog course description (not to exceed 50 words):  Seminar in Mathematical Biology. Problems, methods and recent developments in mathematical biology. May be repeated for credit.

10. As currently in course inventory:

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Approval recommended by:

Peter Howard 6/26/2014
Department Head or Program Chair (Type Name & Sign)

Chair, College Review Committee 6/27/14
Date

Dean of College 7-21-14
Date

Submitted to Coordinating Board by:
Chair, GC or UCC 7-21-14
Date

Questions regarding this form should be directed to Sandra Williams at 845-8201 or sandra-williams@tamu.edu.
Curricular Services – 04/14
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 (e.g., JHM, JD, MD, etc.)
2. Request submitted by (Department or Program Name):  
   TAMU Baylor College of Dentistry - Dept of Restorative Sciences
3. Course prefix, number and complete title of course:  
   PROS 5259 - Implant Concepts and Techniques, Surgical Placement

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 5: enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.
5. Is this an existing core curriculum course?  
   - Yes  
   - No
6. If this course will be stacked, please indicate the course number of the stacked course:
7. I verify that I have reviewed the FAQ for Export Control Basics for Distance Education (http://spr.tamu.edu/resources/export-controls/export-controls-basics-for-distance-education).
8. Complete current course title and current catalog course description:
   PROS 5259 Implant Concepts and Techniques
   Seminars and clinical application of basic implant surgical concepts, diagnosis and treatment planning, review of various systems, surgical considerations and evidence-based rationale.
9. Complete proposed course title and proposed catalog course description (not to exceed 50 words):
   PROS 5259 Implant Concepts and Techniques, Surgical Placement
   Seminars and clinical application of basic implant surgical concepts, diagnosis and treatment planning and the SAC classification, review of various systems, surgical placement considerations and evidence-based rationale; prerequisite for advanced specialty education students desiring to place implants in the Post-Doctoral Implant Surgical Placement Program. Must be taken on a satisfactory/unsatisfactory basis.
10. 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  
Dean of College  Date  
Chair, GC or USC  Date  
Submitted to Coordinating Board by:  
Associate Director, Curricular Services  Date  
Questions regarding this form should be directed to Sandra Williams at 845-7201 or sandra.williams@tamu.edu.
Curricular Services - 04/14
IMPLANT CONCEPTS AND TECHNIQUES, SURGICAL PLACEMENT - PROS 5259

Course Syllabus

Course Sessions: Wednesday, Thursday, Friday 7:00-8:00AM

Course Number and Name: PROS 5259, Implant Concepts and Techniques, Surgical Placement

Course Type:  (X) Lecture  (X) Laboratory  ( ) Clinical  (X) Seminar  ( ) Selective

Academic Year/Semester Offered: 2015-2016 (X) Summer Session  ( ) Fall  ( ) Winter  ( ) Spring

Course Directors: Aline G. Speer, DDS, MS (Periodontist, Surgeon), William Nagy, DDS

TAMU-BCD room 325

Other Participating Faculty:
William Nagy, DDS - Director, Post-Doctoral Implant Surgical Placement Program
Vikram Gandhi, DDS, MS - Periodontist, Surgeon
Jeffrey Pope, DDS, MS - Periodontist, Surgeon

Course Description: This implant concepts and techniques course is designed as a prerequisite for advanced specialty education students desiring to place dental implants in the Post-Doctoral Implant Surgical Placement Program. The course will offer preliminary didactic/laboratory/clinical seminars on basic implant placement concepts, which will be followed by supervised clinical training on straightforward implant cases (SAC guidelines) in the Surgical Implant Placement Program. This training entails comprehensive treatment planning, interpretation of radiograph/CBCT images, review of evidence based literature, and collaboration with other specialties, including the ability to recognize and refer advanced to complex implant cases to surgical specialists.

Course Objectives:
- Introduce the most current biologic basis related to endosseous root form implant therapy and osseointegration
- Present anatomical considerations in dental implant surgery
- Familiarize the student with implant selection and basic surgical techniques, including flap designs, site preparation (ridge preservation after extractions), osteotomy for implant placement, soft tissue management, and post-operative care
- Present and emphasize the importance of a systematically developed sequential diagnosis through examination, dental/medical history, and risk assessment in order to elaborate comprehensive patient management and treatment plan that encompass surgical and prosthetic considerations
- Familiarize the students with the SAC guidelines and the reasoning of working with specialists in advanced to complex cases
- Understand the rational of implant site development and extraction site grafting, including ridge preservation, bone guided regeneration (GTR), sinus augmentation, and bone graft selection
- Discuss indications for immediate implants and implant loading protocols
- Understand common and potential complications with implant treatment
- Provide hands on laboratory experience with the Biomet 3l, Astra, and Straumann implant systems

Course Structure: The course consists of 16 one hour sessions (3 sessions per week) and three 4 hour hands laboratory sessions during the summer in preparation for clinical experience in the Fall academic semester.

Related Prerequisites:

- All students must have completed a doctorate degree in dentistry and be enrolled in one of the clinical advanced education programs at Texas A&M University, Baylor College of Dentistry
- It is expected that residents apply ethical principles, professional rules and regulatory law with personal and professional integrity
- Information management and critical thinking: the resident must be able to acquire, analyze, and integrate information deemed valuable for the practice of implant dentistry and to utilize self-assessment, self-directed learning, and critical thinking in maintaining competency
- Use oral, written, and technological resources in contemporary practice to support lifelong learning and safeguard the quality of patient care and privacy
**Evaluation Criteria/Methods:** Students will be required to demonstrate their understanding and mastery of course objectives under observation and during patient treatment in order to successfully complete the training. The course is 0 credit hours and grading will be Satisfactory/Unsatisfactory. Students must attend, and participate in all sessions to receive a satisfactory grade. Students with unsatisfactory grades will not be allowed to place implants in the Post-Doctoral Implant Surgical Placement Program. See student rule 7 [http://student-rules.tamu.edu/rule7](http://student-rules.tamu.edu/rule7)

**Attendance Policy:** Attendance is required at all sessions to successfully complete the course.

**Laboratory/Clinic Policies and Procedures:** Students will be required to submit potential implant cases for approval by restorative and surgical faculty prior to scheduling implant surgery; conduct review of medical dental/history and obtain medical clearance accordingly; assist with verifying patient compliance with payment prior to surgery and obtain informed consent from patients; enter correct procedure codes and accurate, detailed notes immediately after surgery, including reference and lot numbers for implants, healing abutments, and biologic products such as bone grafts and membranes; follow-up with patients and provide adequate postoperative care.

**Learning Materials:** Power Point presentations will be provided. Additional literature is encouraged.

**Remediation Policy:** The course is offered once a year and there is no remediation. Failure to enroll or satisfactorily complete the course will require the student to successful complete the course the following year before placing implants.

**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 accommodations of their disabilities. If you believe you have a disability requiring accommodation, please contact Disability Services, in Cain Hall, Room B118, or call 845-1637. For additional information visit [http://disability.tamu.edu](http://disability.tamu.edu).
Academic Integrity Statement and Policy: “An Aggie does not lie, cheat or steal, or tolerate those who do” http://aggiehonor.tamu.edu

IMPLANT CONCEPTS AND TECHNIQUES (PROS 5259)
Course Outline 2015-2016

1. Introduction to Dental Implants 1 hr
   - General concepts, implant composition, types, and parts
   - Implant healing and physiology
   - Osseointegration
   - Biomechanics
   - Implant survival and success

2. Anatomical Considerations in Dental Implant Surgery 1 hr
   - Bone quality, height, and width (classifications)
   - Soft tissue considerations (thin, thick, scalloped, flat gingival architecture)
   - Neurovascular structures
   - CBCT interpretation: last 15 minutes to study a CBCT (actual patient)

3. Treatment Planning I 1 hr
   - General considerations: diagnosis (merging clinical and radiographic/CBCT findings)
   - Systemic health implications/medical consults/interdisciplinary approach
   - Site assessment: bone quality and quantity
   - Selection of the prosthetic design and implant type/dimensions

4. Treatment Planning II 1 hr
   - Treatment planning in the esthetic zone
   - Timing of implant placement and loading
   - Temporalization types and rational for selection

5. Basic Surgical Technique 1 hr
   - Instrumentation, set-up, sterile technique
   - Local anesthesia and intravenous (IV) sedation

6. Basic Surgical Technique II 1 hr
   - Flap design and applications
   - Basic site preparation
   - Soft tissue management and suturing
   - Bone grafts: rational for bone graft selection and application
   - Membranes: rational for membrane selection and application
   - Decision making regarding single stage and second stage techniques
   - Immediate implants and loading protocols
7. Basic Surgical Technique III 1 hr
   - Surgical guide, drilling sequence, osteotomy considerations
   - Irrigation, implant placement
   - Medications typically used: antibiotics, anti-inflammatories, analgesics, chlorhexidine 0.12%
   - Post-operative care

8. Familiarization with implant surgery set-up (instrumentation, sterile technique) 1 hr
   - Residents will be divided in two groups; each group will have a 30 minute session in the implant surgical room to learn routine pre-surgical and trans-surgical procedures. Residents will be introduced to surgical instruments and have the opportunity to touch and ask questions about the implant surgical kits. Clinical assistant Mary Vargas will assist the instructor.

9. Surgical Technique lab (flap and suturing) – Pig jaws 2 hr

10. Management of Deficient Sites 1 hr
    - Ridge preservation
    - Change in the ridge following extraction sites and immediate implants
    - Ridge augmentation: hard tissue and soft tissue techniques
    - Sinus lift
    - Healing timetables

11. Implant maintenance and Peri-implantitis 1 hr
    - Maintenance/annual exam: what is it about?
    - Periodontitis and implant maintenance
    - Maintenance alternation with periodontists
    - Peri-implantitis treatment/management
    - Home hygiene

12. Implant Complication Management 1 hr
    - Failed, failing, and alien implants
    - Peri-implant mucositis and peri-implantitis
    - Mal-positioned implants: prosthetics and esthetics implications

13. Treatment Planning exercise (group collaboration) I 1 hr
    - Residents will form groups of 4 to critically evaluate an implant case scenario and elaborate a diagnosis, sequenced treatment plan, surgical technique, and maintenance plan

14. Treatment Planning exercise (group collaboration) II 1 hr
    - residents will form groups of 4 to critically evaluate an implant case scenario and elaborate a diagnosis, sequenced treatment plan, surgical technique, and maintenance plan

15. Hands on bench top surgical experience with the Biomet 3i, Astra, and Straumann systems 4 hr ea
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<th>Time</th>
<th>Session Title/Topic</th>
<th>Instructor Name</th>
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<td>2. Anatomical Considerations in Dental Implant Surgery</td>
<td>Dr. Speer</td>
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<td>3. Treatment Planning I</td>
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<td>4. Treatment Planning II</td>
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<td>5. Basic Surgical Technique I</td>
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<td>7. Basic Surgical Technique III</td>
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<td>8. Familiarization with implant surgery set-up</td>
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<td>9. Surgical Technique Lab (flap and suturing) – Pig jaws</td>
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<td>10. Management of Deficient Sites</td>
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<td>15. Hands on bench top surgical experience (Suturing) 2 hr</td>
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<td>16. Implant Placement Program Guidelines</td>
<td>Dr. Nagy</td>
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| TBD      | TBD    | 17, 18, 19 Manufacturers Hands on 12 hr                       | Mfg Rep
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 (ex., DVM, JD, MD, etc.)
2. Request submitted by (Department or Program Name): Department of Statistics
3. Course prefix, number and complete title of course: STAT 615 Stochastic Processes

Attach a brief supporting statement for changes made to items 1, 3, 4, 6, and 6 below:

4. Change requested
   a. Prerequisite(s): From: STAT 611; MATH 409 To: STAT 610; MATH 409
   b. Withdrawal (reason):
   c. Cross-list with:
   Cross-listed courses require the signature of both department heads.
   d. Change in course title and description. Enter complete current course title and current course description in item 5; enter proposed course title and proposed course description in item 6. Complete item 7 for change in title.
   e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 7. Attach a course syllabus.
5. Is this an existing core curriculum course? □ Yes ☑ No
6. If this course will be stacked, please indicate the course number of the stacked course:
7. ☑ 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):
   Survey of the theory of stochastic processes. Topics will include countable-state Markov processes, birth-death processes, Poisson point processes, renewal processes, Brownian motion and diffusion processes and covariance-stationary processes. The course will include both theoretical development and applications to real world problems.

10. a. As currently in course inventory:

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Approval recommended by:
Michael Longnecker 6/10/14

Department Head or Program Chair (Type Name & Sign) Date
Chair, College 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@tamu.edu
Curricular Services – 04/14
MEMORANDUM

TO: Whom It May Concern

FROM: Michael Longnecker  
       Professor and Associate Department Head, Statistics

SUBJECT: Change in Prerequisite for STAT 615

The course STAT 610 is a course in distribution theory and hence is a more appropriate prerequisite for STAT 615, a stochastic processes course. The current prerequisite is STAT 611, which is a course in statistical inference and hence does not cover the necessary theory needed as a background for STAT 615.