New Courses
Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
Submit original form and attach a course syllabus.

1. This request is submitted by the Department of Aerospace Engineering

2. Course prefix, number and complete title of course: AERO 661 Optical Methods in Aerospace Engineering

3. Catalog course description (not to exceed 50 words): Analysis and design of imaging and interferometric instruments for flight in and above the atmosphere and ground-based observation of orbiting objects; assessment of optical component and system performance.

4. Prerequisite(s): Graduate classification

5. Is this a variable credit course? ☐ Yes ☒ No
If yes, from ______ to ______

6. Is this a repeatable course? ☐ Yes ☒ No
Will this course be repeated within the same semester? ☐ Yes ☒ No
If yes, this course may be taken ______ times.

7. This course will be:
   a. required for students enrolled in the following degree programs(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)
MS, MEng, PhD in aerospace engineering or related fields

8. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

9. Prefix Course # Title (excluding punctuation): AERO 661 OPTICAL METHODS FOR AERO

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<th>Lab</th>
<th>S/U</th>
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<th>Fund Code</th>
<th>Admin. Unit</th>
<th>Year</th>
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</table>

Approval recommended by:

Rodney D. Bowersox/John E. Hurtado
Department Head - Type Name & Sign
6-7-2013

Chair, College Review Committee
Date
6-12-13

Dean of College
Date
6-12-13

Dean of College
Date
8-22-13

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 – 3/09
AEROSPACE ENGINEERING

Course title and number: AERO 661 – Optical Methods in Aerospace Engineering
Term: Fall 2015
Credit/Hours: 3.0
Meeting times/location: TR 2:20-3:35 PM / HRBB 134

Course Description and Prerequisites
Analysis and design of imaging and interferometric instruments for flight in and above the atmosphere and ground-based observation of orbiting objects; assessment of optical component and system performance.

Prerequisite: Graduate Classification.

Learning Outcomes or Course Objectives
Students will gain understanding of:
- mathematical modeling of optical devices and systems of varying degrees of complexity,
- mathematical modeling of errors and aberrations in optical components and systems,
- measurement of aberrations and evaluation of optical system performance,
- design and optimization of optical systems for high altitude, high speed and space flight,
- manipulation of imaging and temporal non-imaging data to detect or enhance objects or events,
- detector selection for specific environmental or mission requirements.

Instructor Information
Name: Thomas C. Pollock
Telephone number: 979-845-1686
Email address: pollock@tamu.edu
Office hours: TBA
Office location: HRBB 741B

Textbook and/or Resource Material

Grading Policies
Homework: 33 percent
Mid-term exam: 33 percent
Project: 34 percent
A 90 – 100%
B 80 – 89%
C 70 – 79%
D 60 – 69%
F below 60%
# Course Topics

<table>
<thead>
<tr>
<th>Topic</th>
<th>Weeks</th>
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<tbody>
<tr>
<td>1. Introduction and review of imaging optics</td>
<td>Lectures 1 - 4</td>
</tr>
<tr>
<td>1.1 The E-M spectrum and imaging sensors</td>
<td>(Weeks 1 &amp; 2)</td>
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<td>1.2 Image formation: point objects and extended objects</td>
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<td>1.3 Refractive and reflective optical components</td>
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<td>1.4 2D Fourier transforms</td>
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<td>2. Detectors</td>
<td>Lectures 5 - 6</td>
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<tr>
<td>2.1 CCD</td>
<td>(Week 2)</td>
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<td>2.2 CMOS</td>
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<td>2.3 Light amplification</td>
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<td>2.4 Photon counters</td>
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<td>2.5 Non-imaging</td>
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<td>2.6 Noise</td>
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<td>3. Aberrations and image degradation</td>
<td>Lectures 7 - 14</td>
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<td>3.1. Seidel and Zernike polynomials</td>
<td>(Weeks 3 – 5)</td>
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<td>3.2 Point spread functions</td>
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<td>3.3 Optical transfer functions</td>
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<td>3.4 Optical tolerances and performance</td>
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<td>3.5 Resolution limits</td>
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<td>3.6 Optical model of the atmosphere</td>
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<td>3.7 Thermal, structural and mechanical effects on optical components</td>
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<td>3.8 Control of stray light</td>
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<tr>
<td>4. Design of imaging optics</td>
<td>Lectures 16 - 22</td>
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<tr>
<td>4.1 Achromatic Doublet</td>
<td>(Weeks 6 – 8)</td>
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<td>4.2 Apochromatic Triplet</td>
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<td>4.3 Petzval corrector</td>
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<td>4.4 Double Gauss and related camera lenses</td>
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<td>4.5 Single mirror systems</td>
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<td>4.6 Multiple mirror systems</td>
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<td>4.7 Optimization to minimize or manage aberrations</td>
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<td>4.8 Designing for high g, high altitude and space flight</td>
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<td>5. Image analysis, manipulation and enhancement</td>
<td>Lectures 23 - 29</td>
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<td>5.1 Noise reduction algorithms</td>
<td>(Weeks 10 – 12)</td>
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<td>5.2 Filter algorithms - convolution</td>
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<td>5.3 Deconvolution</td>
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<td>5.4 Super-resolution and faint object detection</td>
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<td>5.5 Shape detection and identification</td>
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<td>5.6 Enhancement algorithms</td>
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<td>6. Visible wavelength interferometers</td>
<td>Lectures 30 - 32</td>
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<tr>
<td>6.1 Configuration and design</td>
<td>(Week 13)</td>
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<td>6.2 Remote data collection and measurement of material properties</td>
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<td>6.3 Spectroscopy of celestial objects</td>
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<td>7. Laboratory Experiments/Demonstrations (during class hours)</td>
<td>Week 4</td>
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<tr>
<td>7.1. Measurement of the physical parameters of imaging systems</td>
<td>Week 6</td>
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<td>7.2. Measurement of point spread functions and determination of modulation transfer functions of imaging systems.</td>
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<td>7.4. Remote measurement and analysis of reflective surfaces</td>
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<td>7.3. Interferometric measurements</td>
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<tr>
<td>8. Introduction to project topics</td>
<td>Week 13</td>
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<tr>
<td>8.1. Design of imaging optics</td>
<td>Week 9</td>
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<tr>
<td>8.3. Algorithms for image noise reduction</td>
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<td>8.4. Algorithms for shape detection</td>
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<td>8.5. Observability of objects</td>
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<td>8.6. Other as proposed</td>
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<tr>
<td>9. Project presentations</td>
<td>Week 14</td>
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</table>
Other Pertinent Course Information

Students are expected to attend class. For additional information visit the student rules website on attendance: http://student-rules.tamu.edu/rule07 and http://student-rules.tamu.edu/academicrules.

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."
Texas A&M University

Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

1. This request is submitted by the Department of Electrical and Computer Engineering

   ECEN 715 Physical and Economical Operations of Sustainable Energy Systems

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

3. Catalog course description (not to exceed 50 words):

   Operational issues for sustainable electric energy systems. Basic relevant topics in engineering, optimization and economic concepts. Modular view of individual electric energy processing components. Physical and market operations in electricity industry in support of sustainable energy integration. Computer simulations and demonstrations to create and evaluate examples of power systems.

4. Prerequisite(s):

   ECEN 214, 420, 460 or instructor approval

   Cross-listed with:

   Stacked with ECEN 415

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

5. Is this a variable credit course? □ Yes ☑ No

   If yes, from _____ to _____

6. Is this a repeatable course? □ Yes ☑ No

   If yes, this course may be taken _____ times.

   Will this course be repeated within the same semester? □ Yes ☑ No

7. This course will be:

   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

Men, MS, Ph.D. in electrical and computer engineering

8. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

9. Prefix Course ? Title (excluding punctuation)

   ECEN 715 PHYS ECON OP SUS T E N E R Y

   Lect. Lab SEC CP and Fund Code

   0 3 0 0 0 3 1 4 1 0 0 1 0 0 0 6 0 0 3 6 1 3 - 1 4 0 0 3 6 3 2

   Approval recommended by:

   C. Singh

   Department Head - Type Name & Sign Date

   Chair, College Review Committee Date

   Dean of College 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 – 3/09
Course title and number  ECEN 715: Physical and Economical Operations of Sustainable Energy Systems  
Term (e.g., Fall 200X)  Fall 201X  
Meeting times and location  TBA

Course Description and Prerequisites

This course aims to introduce graduate students the operational issues for sustainable electric energy systems. The first part of the course will introduce basic engineering, optimization and economic concepts relevant to this course. The second part of the course will discuss the "modular" view of individual electric energy processing components (e.g., variable generation, flexible demands). The third part of this course will present both physical and market operations in today's changing electricity industry. Computer simulations and demos will be available for students to create and evaluate examples of power systems.

Prerequisite: ECEN 214, ECEN 420/460, or permission from the instructor

Learning Outcomes or Course Objectives

We will discuss a broad variety of important engineering and economics issues related to integration of sustainable energy resources. We will introduce the key differences in operations and planning at the system level, as well as at the individual power producers' level. Classroom discussion and final project presentations will prepare the students to understand better how to plan and operate sustainable electric energy systems with many more renewable energy resources.

Instructor Information

Name  Dr. Le Xie
Telephone number  979-845-7563
Email address  lxie@ece.tamu.edu
Office hours  TBA
Office location  WEB 301H

Textbook and/or Resource Material

2. Published papers assigned by the instructor

Grading Policies for Graduate Students in 689

Homework Assignments (20%) + Mid-term Exam (25%) + Final Exam (25%) + Final Project (25%) + In-class Quiz (5%)
Grading Scale:  90-100 A;  80-89 B;  70-79 C;  60-69 D;  60 or below F

Course Topics, Calendar of Activities, Major Assignment Dates

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<thead>
<tr>
<th>Lecture</th>
<th>Date</th>
<th>Topic</th>
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<td>#1</td>
<td>Course Motivation and Overview; Syllabus</td>
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<td>#2</td>
<td>Basic Concepts from Economics [1]. Ch 2</td>
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<td>Basic Concepts from Optimization</td>
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<td>Basic Concepts from Optimization</td>
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<td>#6</td>
<td>Conventional Generation Resources</td>
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<td>#7</td>
<td>Renewable Variable Energy Resources: Wind</td>
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<td>#8</td>
<td>Renewable Variable Energy Resources: Solar, and others</td>
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<td>#9</td>
<td>Conventional Electricity Demands</td>
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<td>#10</td>
<td>Flexible Electricity Demands in Smart Grids</td>
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<td>#11</td>
<td>Electric Power System Fundamentals: Power Flows</td>
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<td>#12</td>
<td>Balancing Supply and Demand: ED and Optimal Power Flows</td>
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<td>#13</td>
<td>Balancing Supply and Demand with many Variable Generation Resources</td>
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<td>#14</td>
<td>Balancing Supply and Demand in the Regulated Industry and Electricity Markets</td>
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<td>#15</td>
<td>Material Review; Simulations Demonstrations</td>
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<tr>
<td>#16</td>
<td>Midterm Exam</td>
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<td>#17</td>
<td>Balancing Supply and Demand Deviations from Forecast in the Regulated Industry</td>
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<td>#18</td>
<td>Ancillary Service Markets as a Means of Balancing Demand Deviations from Forecast in the Changing Industry</td>
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<td>#19</td>
<td>Participating in Markets for Electric Energy [1]. Ch 4</td>
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<td>#20</td>
<td>Participating in Markets for Ancillary Services</td>
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<td>#21</td>
<td>Power Delivery under System Constraints in the Regulated Industry (Optimal Power Flow)</td>
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<td>#22</td>
<td>Transmission Networks and Electricity Markets</td>
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<td>#23</td>
<td>Nodal Markets: LMP Fundamentals</td>
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<td>#24</td>
<td>Nodal Markets: LMP Fundamentals</td>
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<td>#25</td>
<td>Financial Transmission Rights</td>
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<td>#26</td>
<td>Guest Lecture on ERCOT Market Operations</td>
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<tr>
<td>#27</td>
<td>Coordinating Variable Generation Through Flexible Demands</td>
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<tr>
<td>#28</td>
<td>Summary</td>
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<td>#29</td>
<td>Final Project Presentation</td>
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**Makeup Work Policy**

Please refer to [http://student-rules.tamu.edu/rule07](http://student-rules.tamu.edu/rule07)

**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](http://disability.tamu.edu)

**Academic Integrity**

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

"An Aggie does not lie, cheat, or steal, or tolerate those who do."
Texas A&M University
Departmental Request for a New Course
Undergraduate + Graduate + Professional
* Submit original form and attach a course syllabus.*

Form Instructions:

1. Request submitted by (Department or Program Name): Department of Veterinary Physiology and Pharmacology

2. Course prefix, number and complete title of course: VTPP 651 Epigenetics & Systems Physiology

3. Catalog course description (not to exceed 50 words): Journal club format focusing on epigenetic regulation of physiological systems; assignment of papers from primary literature and weekly oral presentations detailing opinions on research; emphasis on fundamental concepts in epigenetics, physiology and the molecular techniques employed to address research hypotheses, discussions of scientific ethics and fraud.

4. Prerequisite(s):
   Graduate Classification

   Cross-listed with: Stack with:

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

5. Is this a variable credit course? ☐ Yes ☑ No

   If yes, from ______ to ______

6. Is this a repeatable course? ☐ Yes ☑ No

   If yes, this course may be taken ______ times.

   Will this course be repeated within the same semester? ☐ Yes ☐ No

7. This course will be:
   a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)
   b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

   graduate students enrolled in all of the life sciences

8. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

9. Prefix Course # Title (excluding punctuation)
   VTPP 651 Epigenetics & Systems Physiology
   Lect. Lab S/C C/L and Fund Code
   03 0 0 0 3 2 6 0 9 0 5 0 0 0 2 9 2 0 1 4 - 1 5 0 0 3 6 3 2
   Approval recommended by:
   Dr. John N Stallone, 06/29/13
   Department Head or Program Chair (Type Name & Sign) Date
   Chair, Review Committee Date
   Dean of College Date
   Chair, GC or UCC Date
   Effective 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 – 3/10
VTPP 651 Epigenetics & Systems Physiology
Fall Semester 2013
3 Credit Hours

Course Description

Epigenetics is an emerging area of research with far-reaching implications into mammalian development and disease. In VTPP 651, students will evaluate and discuss current research examining the epigenetic mechanisms controlling systems physiology. This class will focus on the role of chromatin structure in the regulation of cellular homeostasis and organ function rather than concentrate on specific, isolated nuances of gene transcription. By doing so, students will gain an appreciation for the impact of epigenetic mechanisms upon mammalian development and normal homeostasis. Special emphasis will be paid to current studies applying epigenetic-based therapies to disease contexts and/or examining the disruptive role of teratogens in epigenetic programming.

By using a journal club format, this course will focus on developing skills in deciphering experimental design, critical paper reading, and technical fluency while at the same time, fostering the development of oral presentation skills. Students will be assigned two weekly papers taken from the most current primary literature. Students will be expected to analyze the data and research strategies described in the paper. For each manuscript discussed, one student will be expected to give an oral presentation detailing the research findings while another student will be assigned to lead the discussion of the paper. Each week, two papers will be discussed and marks will be assigned based on the quality of the oral presentations and active group participation.

Learning Outcomes and Course Objectives

The purpose of this course is to provide graduate level students with a journal club style seminar class focusing on the most current research in Epigenetics as it relates to systems physiology and disease. It is essential that graduate education teach students to think independently, access existing information, and acquire new knowledge on their own. This course will focus on "big picture" concepts and require students to focus their presentations on the scientific methods employed, rather than emphasizing an understanding of the specific biological systems being studied.

Learning Objectives

- list the common elements found in all scientific manuscripts
- discuss cases of scientific fraud and examine current procedures for reporting and preventing academic misconduct
- for a given scientific paper, identify the hypothesis being addressed
- break a scientific paper into its component parts and evaluate the methodologies used to address the scientific hypothesis
- use the online search tool PubMed as a resource to obtain background information on a given study
- assimilate information from multiple sources into an oral presentation
- effectively communicate to a large group of people
- define epigenetics and explain the role of chromatin structure in controlling cellular development/homeostasis
- list the major molecular techniques used to examine epigenetic phenomena
- describe how changes in chromatin structure influence gene expression and organism phenotype
- list the current therapeutic strategies that target epigenetic aspects of cellular function
- define the term teratogen and explain the relevance of this term to development
- define epigenetic programming and apply this concept to mammalian development

VTPP 651 Course Syllabus Page 1
Learning Outcomes

By the end of the course, the graduate student will have:
- integrated epigenetic mechanisms into their understanding of systems physiology
- gained a firm understanding of how cellular differentiation contributes to organ development and function
- developed an improved ability to critically evaluate scientific literature
- improved ability to give oral presentations and lead group discussions
- improved their technical fluency in the areas of epigenetics and cellular physiology
- attained a greater understanding of the current techniques used in molecular biology
- developed an appreciation for issues surrounding academic misconduct and scientific fraud
- gained improved critical thinking skills and a greater capacity to evaluate scientific literature

Prerequisites

Graduate Classification

Open to graduate students enrolled in all of the life sciences.

Meeting Times & Important Dates

VTTP 651 will meet once a week in the RSC conference room from 1:00 to 4:00 PM.

Grading policies

Grading scale
A= 85-100
B= 75-84
C= 65-74
Fail = Less than 65

Course Breakdown

Class Room Participation 10%
Effective Communication and Presentation skills 50%
Performance as Discussion Leader 25%
Writing Assignment (Due November 14th 2013) 15%

Class Room Participation

Students will be evaluated on their participation in the discussion of the papers being presented. Students need to read the assigned papers before class and come ready with a written list of questions and/or comments on the manuscript. Students will be given opportunity to question/comment on the study and will be evaluated on their active participation in this process.

Writing Assignment

Students will be asked to complete one writing assignment during the course of the semester. The purpose of this project is to further familiarize students with a gene of their choice controlling a developmental process discussed in class. Students will submit a “Wikipedia style” entry summarizing what is known about their gene and properly reference the PRIMARY sources they derived this information from. This entry will be uploaded to Wikipedia and the online submission graded by the instructors. This assignment will be due November 14th 2013.
COLLEGE OF VETERINARY MEDICINE
& BIOMEDICAL SCIENCES
Department of Veterinary Physiology & Pharmacology

Course Calendar

Week 1
August 28th 2013
Critically Evaluating the Scientific Literature

Week 2
September 4th 2013
Scientific Misconduct and Academic Fraud

Week 3
September 11th 2013
Delivering Effective Oral Presentations 1 - Speaking Effectively

Week 4
September 18th 2013
Delivering Effective Oral Presentations 2 - Organizing Your Talk

Weeks 5 to 14
September 25th to November 27th 2013 Student Presentations

November 14th - Writing Assignment is Due

Instructor Information

Michael Golding PhD.
Assistant Professor
Department of Veterinary Physiology and Pharmacology
College of Veterinary Medicine and Biomedical Sciences
Texas A&M University
College Station, Texas
77843-4466
979-862-1332
mgolding@cvm.tamu.edu

Beiyan Zhou PhD.
Assistant Professor
Department of Veterinary Physiology and Pharmacology
College of Veterinary Medicine and Biomedical Sciences
Texas A&M University
College Station, Texas
77843-4466
979-845-7175
BZhou@cvm.tamu.edu
Attendance:

Class attendance is expected. Your arrival to the class on time will be appreciated. Should you arrive late, please enter the classroom as quietly as possible and apologize to the students who you may disrupt as you take your seat in the classroom.

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

"If the student is seeking an excused absence, the student must notify the instructor as soon as possible after the absence, but no later than the end of the second working day after the last date of absence."

Please see Texas A&M Student Rule #7 - http://student-rules.tamu.edu/rule07 for more information.

Classroom Communication:

The university has established a formal process for handling of student grievances associated with any course. If there are major concerns about the conduct of a course, which cannot be resolved by meeting with the instructor of a course, a Classroom Communication Concerns form should be completed and submitted to the appropriate department head.

For more information on Classroom Policies please visit the official TAMU website by following this link http://student-rules.tamu.edu/
Americans with Disabilities Act:

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

Academic Integrity and Scholastic Dishonesty:

“It is the responsibility of students and instructors to help maintain scholastic integrity at the university by refusing to participate in or tolerate scholastic dishonesty.”

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

All examinations in this course are closed book, closed note, and closed neighbor exams. Video recording devices and other technological means may be used to supplement documentation of acts involving Scholastic Dishonesty. The instructors of this course regard Scholastic Dishonesty as a very serious offense and disciplinary action will be taken. Sanctions will include a grade of zero on the examination and a grade of “F” or “F*” in the course. All violations of the Aggie Honor Code in this course will result in a letter of reprimand being made a part of the student’s records. Upon appeal of an accusation of Scholastic Dishonesty, the Honors Council can institute additional sanctions including separation from the University.

Folks: do not be confused, these instructors do not tolerate cheating. If you engage in an act of scholastic dishonesty, there is a very high probability that you will be caught. The capabilities and talents of the instructors to identify and verify cheating and their commitment to prosecute cheaters should not be underestimated. Almost every semester, one or more students fail to take this warning seriously. Please do not jeopardize your reputation, academic studies or future professional career.

See Aggie Honor Code at aggiehonor.tamu.edu