The Undergraduate Curriculum Committee recommends approval of the following:

1. **Change in Courses**

   **AGEC 285. Directed Studies.**

   Variable credit hours
   
   From: Credit 1 to 4.
   
   To: Credit 0 to 4.

   **AGEC 291. Research.**

   Variable credit hours
   
   From: Credit 1 to 4.
   
   To: Credit 0 to 4.

   **AGEC 484. Internship.**

   Variable credit hours
   
   From: Credit 1 to 6.
   
   To: Credit 0 to 6

   **AGEC 485. Directed Studies.**

   Variable credit hours
   
   From: Credit 1 to 6.
   
   To: Credit 0 to 6.

   **AGEC 491. Research.**

   Variable credit hours
   
   From: Credit 1 to 6.
   
   To: Credit 0 to 6.

   **BIOL 456. Medical Microbiology.**

   Lecture contact hours and semester credit hours
   
   From: (4-0). Credit 4.
   
   To: (3-0). Credit 3.
2. Texas A&M University at Galveston

   a. Change in Courses

   **MARB 303. Biostatistics.**

   Prerequisites
   From: MATH 151. Curriculum sophomore, junior or senior classification or approval of instructor.
   To: MATH 151 or MATH 142; sophomore, junior or senior classification or approval of instructor.

   **MARB 310. Introduction to Cell Biology.**

   Prerequisites
   From: Cell Biology should precede or be concurrent with enrollment in MARB 450. BIOL 112, CHEM 228, MARB 301. Junior or senior classification or approval of instructor. MARS 360 is recommended but not required.
   To: BIOL 112, CHEM 228, MARB 301. Junior or senior classification or approval of instructor. MARS 360 is recommended but not required.

   **MARB 408. Marine Botany.**

   Prerequisites
   From: BIOL 112. Curriculum sophomore, junior or senior classification or approval of instructor.
   To: BIOL 112; junior or senior classification or approval of instructor.

   **MARB 425. Marine Ecology.**

   Prerequisites
   From: MARB 315, 408, 435; curriculum senior or approval of instructor.
   To: MARB 315; senior classification or approval of instructor.
CHANGE IN COURSES
February 4, 2016

Memorandum

To: Sandra Williams
   Associate Registrar

Through: Dr. Kim Dooley
         Associate Dean

From: Department of Agriculture Economics
      Dr. Fred Boadu

Subject: Request to Include Zero Credit Hour in Existing Courses

The College of Agriculture and Life Sciences, Department of Agricultural Economics, request the following existing courses to be changed to include a zero credit hour option effective 201631. No other changes are being made to the course.

<table>
<thead>
<tr>
<th>Department Name</th>
<th>Course Number/Title</th>
<th>Existing Credit Hours</th>
<th>Proposed Credit Hours</th>
<th>Purpose</th>
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<tbody>
<tr>
<td>Agricultural Economics</td>
<td>AGECE 285</td>
<td>1-4</td>
<td>0-4</td>
<td>Zero credit option will be used to track student participation in internships</td>
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<tr>
<td>Agricultural Economics</td>
<td>AGECE 291</td>
<td>1-4</td>
<td>0-4</td>
<td>Zero credit option will be used to track student participation in internships</td>
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<td>Agricultural Economics</td>
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<td>Agricultural Economics</td>
<td>AGECE 491</td>
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</table>

600 John Kimbrough Blvd, 214 AGLS Building
2124 TAMU
College Station, TX 77843-2124
Tel. 979.845-4911 Fax 979.458-1755
http://agececon.tamu.edu/undergraduate

RECEIVED
By Curriculum Services at 4:37 pm, Feb 04, 2016
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 Biology
3. Course prefix, number and complete title of course: BIOL 456 MEDICAL MICROBIOLOGY

attach a brief supporting statement for changes made to items 1a thru 4d and 11 below.

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

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

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

e. Change in course number, contact hours (lab & lecture), and semester credit hours. Complete item 11 a 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:
   [Signature and Date]
   [Additional Information]

8. Attach Controls/Export Controls/Basics for Distance Education (http://vpr.tamu.edu/resources/export-controls/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:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course #</th>
<th>Title (excluding punctuation)</th>
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</thead>
<tbody>
<tr>
<td>BIOL</td>
<td>456</td>
<td>Medical Microbiology</td>
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<th>Lab</th>
<th>Other</th>
<th>SCH</th>
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<th>Admin. Unit</th>
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   b. Change to:

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<th>Title (excluding punctuation)</th>
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<th>Lab</th>
<th>Other</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Academic Year</th>
<th>FICE Code</th>
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<td>0440</td>
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<td>0 1 0 2 9 8</td>
<td>4</td>
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</tbody>
</table>

   Approval recommended by:

   [Signature and Date]

   Department Head or Program Chair (Type Name & Sign)

   Chair, College Review Committee
   Date

   [Signature and Date]

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

   Dean of College
   Date

   Submitted to Coordinating Board by:

   [Signature and Date]

   Chair, CDS or UCC

   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

   RECEIVED CURRICULAR SERVICES
Instructor: Dr. Rita B. Moyes  
office: 301B BSBE  
tel: 979-862-7485  
office hours: TR 2:30-4:30 or by appointment  
email: rita-b-moyes@tamu.edu

Required Texts:  
- Medical Microbiology 7th Ed. By Murray, Rosenthal, and Pfaller  
- Demon in the Freezer by Richard Preston

Course Description and Prerequisites:  
BIOL 456. Medical Microbiology (3-0). Credit 3  
Microbiology, epidemiology and pathology of human pathogens with an emphasis on bacterial agents.  
Prerequisite: BIOL 351 or approval of instructor.

Course objectives:  
Medical Microbiology course objectives aim to provide an understanding of the scientific basis for prevention, pathogenesis, diagnosis, and treatment of infectious human diseases. The course presents a broad introduction to immunology, general and pathogenic microbiology, and host responses to infectious agents. The student should develop an understanding of the biological characteristics of pathogenic microorganisms, the course of their infections, the functions of the immune system, and the actions of antibiotics against these pathogens.  
Upon completion of this course, the student should be able to:  
- use microbiology concepts and terminology in describing important aspects of microbial cell physiology and virulence factors and toxin production  
- outline the host defense mechanisms against pathogens and how the host response can also contribute to the pathogenesis of the disease  
- describe the basis of pathogenic process of disease and how it correlates to the areas of epidemiology, chemotherapy, and immunology  
- understand the mechanisms of prevention of disease especially in the area of vaccine production

Test A 100 Monday Sept 26  
Test B 100 Friday October 21  
Test C 100 Friday November 11  
Test D 100 December 13 (Tuesday 8-10am) Final Exam  
Quiz 120 (every weds -grade based on best 12)  
Friday Articles 150 (small group discussions)

670 / 6.7 = average  
(A=90-100, B=80-89, C=70-79, D=60-69, F=<59)

Invited Speakers:  
- Dr. Nancy Street- Associate Dean UT Southwestern Medical Center at Dallas Southwestern Graduate School of Biomedical Sciences- Summer Undergraduate Research Fellowships  
- Rana Gunjot- Research Scientist with Luminex  
- The final exam will be a noncomprehesive exam; that is, it will only cover the material presented after the material for Test C.  
- Exam questions will be drawn mainly from lecture material but will also come from study questions and from reading assignments. Format of exams will be mostly short answer, discussion, and problem solving questions.  
- Missed lecture exams, weekly quizzes, and journal articles: If you miss an exam or assignment for a University Excused Absence (http://student-rules.tamu.edu/rule07), you are allowed to take a make-up exam or assignment. Please contact the instructor within 48 h of the missed exam or assignment in person, by email, or by phone to request a make-up. The make-up exam will be held within one week of the regularly scheduled exam or assignment. *Remember an excuse from a Doctor’s appointment is not valid unless it was necessary to see the Doctor during class time and you are deemed infectious or too sick or injured to attend class.

Class attendance: You have a quiz every Wednesday and a journal discussion every Friday. Unexcused absences cannot be made up (http://student-rules.tamu.edu/rule07). Wednesday Quizzes- total of 120 points. Each quiz is 10 pts each and your best 12 quiz grades will be used to calculate your quiz grades.  
Quizzes will be an individual effort unless otherwise indicated.  
- Students have the right to challenge a question on the examination. However, the following rules must be followed:  
- Challenges must be made within 7 days after the examination is returned to the class.  
- Challenges must be in writing using text page number(s) to justify your challenge.  
- Challenges are to be placed on the credenza outside of my office. I will evaluate your test and then give you my response. My decision will be final and I reserve the right to re-grade your entire test.

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, currently located in the Disability Services building at the Student Services at White Creek complex on west campus or call 979-845-1637. For additional information, visit http://disability.tamu.edu.

“Misconduct in research or scholarship includes fabrication, falsification, or plagiarism in proposing, performing, reviewing, or reporting.” Cheating and plagiarism will be reported to the honor council. http://aggiehonor.tamu.edu
<table>
<thead>
<tr>
<th>Lecture Topic</th>
<th>Lecture pages in book</th>
<th>Assigned Text Reading (includes all associated charts, figures, and boxes within the reading)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
<td></td>
<td>Rhinoviruses p. 503-504 Enterobacteriaceae p. 258 (reading ends at the beginning of the section titled “clinical diseases”)</td>
</tr>
<tr>
<td>Bacterial Cell Wall</td>
<td>112-119</td>
<td>Teichoic acids through spores p.118-121 Pathogenesis of Fungal Disease p. 611-613 (does not include tables and reading ends at the beginning of the section titled “Presentation of Surface Antigen modulates the T helper...”)</td>
</tr>
<tr>
<td>Normal Flora</td>
<td>6-10</td>
<td>Opportunistic Mycoses &amp; Candidiasis p. 675-680 (reading ends at the beginning of section titled “clinical symptoms”)</td>
</tr>
<tr>
<td>Innate Immune Defenses</td>
<td>37-46</td>
<td>Mycotoxins &amp; Aflatoxins p.706-708 and clinical case 75-1 on p.709</td>
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<tr>
<td></td>
<td></td>
<td>Mechanisms of Viral Pathogenesis p.410-412 (intro through viral pathogenesis up to but not including lytic infections)</td>
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<tr>
<td></td>
<td></td>
<td>Pathogenesis of Parasitic diseases p.722-725</td>
</tr>
<tr>
<td>Specific Immune Defenses</td>
<td>61-62</td>
<td>Chlamydia p. 381-384 (reading ends at the beginning of the section titled “clinical diseases”)</td>
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<tr>
<td>Vaccines</td>
<td>100-106</td>
<td>Enteroviruses through polio infections p.497-500</td>
</tr>
<tr>
<td>Epidemiology</td>
<td></td>
<td>Ticks p. 825-826 Sucking Lice, Fleas, p. 830-831</td>
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<tr>
<td>Mechanisms of Pathogenesis</td>
<td>138-146</td>
<td>Neisseria p. 248-253 (reading ends at the beginning of the section titled “Neisseria meningitidis- clinical diseases”)</td>
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<tr>
<td>Bacteria and their Diseases</td>
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<td></td>
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<tr>
<td>Streptococcus pyogenes</td>
<td>188-196</td>
<td>Staphylococcus aureus p. 176-184 (Pathogenesis &amp; Immunity through clinical diseases up to but not including Staphylococcus epidermidis)</td>
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<tr>
<td>Bacillus</td>
<td>209-215</td>
<td>Treponema pallidum p.350-354 (reading ends at the beginning of the section titled “treatment, prevention, and control”) Yersinia p.267-269</td>
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<tr>
<td>Clostridium</td>
<td>327-338</td>
<td>Vibrio p.273-277 (intro through clinical diseases up to but not including laboratory diagnosis)</td>
</tr>
<tr>
<td>Mycobacterium</td>
<td>235-246</td>
<td>Bordetella p. 304-307 (intro through clinical diseases up to but not including laboratory diagnosis)</td>
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<tr>
<td>DATE</td>
<td>TITLE</td>
<td>AUTHOR</td>
</tr>
<tr>
<td>--------</td>
<td>-----------------------------------------------------------------------</td>
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<tr>
<td>9/2/16</td>
<td>The Past is Never Dead-Measles Epidemic</td>
<td>David M. Morens</td>
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<tr>
<td></td>
<td>Filoviruses (including Clinical case 58-1)</td>
<td>Murray et al</td>
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<tr>
<td></td>
<td>Ebola: Is it fair that Americans Received the Treatment?</td>
<td>Art Caplan</td>
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<tr>
<td></td>
<td>Fecal Transplantation</td>
<td></td>
</tr>
<tr>
<td>9/16/16</td>
<td>Temple Monkeys and Health Implications</td>
<td>L. Jones-Engel</td>
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<tr>
<td>9/23/16</td>
<td>Bacillus anthracis Incident Tokyo</td>
<td>H. Takahashi</td>
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<tr>
<td></td>
<td>Triclosan Promotes S. aureus nasal colonization</td>
<td>Adnan Syed</td>
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<td>9/26/16</td>
<td>TEST 1 (MONDAY)</td>
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<tr>
<td>10/7/16</td>
<td>Antimicrobial Mechanisms of Phagocytes-part 2</td>
<td>Ronald S. Flannagan</td>
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<tr>
<td>10/14/16</td>
<td>Ebola Virus Entry</td>
<td>Sven Moller-Tank</td>
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<td>10/21/16</td>
<td>TEST 2</td>
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<td>10/28/16</td>
<td>Advancement towards an approved vaccine to target</td>
<td>A. Taylor-Robinson</td>
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<tr>
<td></td>
<td>Plasmodium falciparum malaria</td>
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<tr>
<td>11/4/16</td>
<td>Bedeviled by Dengue</td>
<td>Beth Mole</td>
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<tr>
<td></td>
<td>Guinea Worm Eradication</td>
<td></td>
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<tr>
<td></td>
<td>GWD Epidemiology &amp;Risk Factors</td>
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<tr>
<td>11/11/16</td>
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<tr>
<td>12/13/16</td>
<td>TEST 4</td>
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</tbody>
</table>
BIOL 456 –Friday Journal Articles- articles will be posted in ecampus.

- EID= Emerging Infectious Diseases which is an online journal put out by the CDC. To access these articles go to www.cdc.gov/eid
- Science articles can be accessed at www.sciencemag.org
- To access other articles: On a TAMU computer go to http://library.tamu.edu
- Click on ejournal and type the name of the journal in the search word box.
- (CID = Clinical Infectious Diseases)
- Click on the correct journal then click on a site that provides the journal covering the volumes required (usually the first site).
- Everyone will be responsible for the assigned Friday journal readings. You will have an individual quiz and a group quiz.
- Be sure to look up any words you don’t know
- Some papers assume you are familiar with the organism or disease- be sure to look it up if you don’t know the background info.

Friday Journal Articles  Total- 150 pts (15 pts/Friday)

1) Individual journal quiz of 5 multiple choice questions =5pts
2) Group journal quiz of same 5 multiple choice questions =5pts
3) Group discussion of ~3-6 discussion questions grade=5pts

You will meet as the same group throughout the semester and I will assign the groups
You may have one 3x5 card of information that you can use when you meet as a group (you will not be able to refer to the journal articles)

*No electronics of any kind during the journal quizzes and discussions- you will receive a zero on the assignment