BSC 1411 – Botany, 4 hours.

Syllabus (Fall 2016)

Instructor: John K. Hemphill, PhD
Office: 201 McFarland Science Building (STC)
Phone: 
Office Hours: by appointment.

9:00 AM – 9:50 AM: Mon, Wed, Fri
Lecture Classroom: STC 123
E-mail: john.hemphill@tamuc.edu
Time: 1:00 PM – 3:00 PM MWF (Rm STC 201)

Resources. Text is required; however, students are encouraged to rent the following:
Mauseth, J.D., PhD. UT of Austin, Texas. Botany, an Introduction to Plant Biology. 4th or 5th Ed.

Other source texts for future references:
Grotewold, Chappell & Kellogg, PhDs. Plant Genes, Genomes and Genetics. 2015.
Jones, Thomas, Ougham & Waaland, PhDs. The Molecular Life of Plants. 2013.


Lecture Course Meeting Time/Place: MWF 9 AM – 9:50 AM (Rm STC 123)
Laboratory Meeting Time/Place: Friday 1:00 PM or 3:00 PM (Rm STC 205)

Course Description: This course is designed for students majoring in Agricultural Science, Plant and Soil Science, Wildlife and Conservation Science and the Environmental Sciences. Students are introduced to the structure and function of plants as well as their diversity and ecology. Topics covered will include the plant cells and tissues, anatomy, morphology, plant physiology (photosynthesis & cellular respiration), plant biochemistry (macromolecules & ATP), genetics, evolution and classification. This course is designed to complement BSC 1413 Zoology with a minimum of overlap, but does include enough genetics and other basics to prepare students for subsequent courses in biological and environmental sciences.

Semester Hours: Four (4) Credits: Lecture/Lab (3 lectures, 2 labs possible)

Laboratory: You must be enrolled in a BSC 1411 laboratory section in order to receive credit for the course. The laboratory will account for 40% of your final grade. The laboratory sessions will begin the first week of classes. Be sure to attend all labs. You will receive a complete schedule, syllabus, and further instructions from you Lab Instructor at the first meeting.

Attendance: Attendance is mandatory and roll will be taken each lecture period. Attendance will be recorded for each lab. Repeated unexcused absences or disruptive behavior such as talking during lecture or repeated tardiness will affect grades as follows. One letter grade reduction will occur for every two unexcused absences. One letter grade reduction for every third tardy. One letter grade reduction for every second disruption. Good attendance and behavior will be rewarded via attendance-participation as extra credit. Note that Labs have similar attendance and courtesy policies.
Material: This course is intended as a foundation-building course for several disciplines. You are expected to read all handouts and to allot adequate time to study the material on your own. If you miss a lecture, you are still responsible for that day’s material – read the chapter, get notes from someone in class, and see the lecture/lab instructor(s) for any clarification. If you have difficulty with the material, feel free to contact us as soon as you can for advice on how best to improve your understanding of the material.

Classroom Policy:

- For successful course completion, your presence and participation is essential. Your attendance grade will be determined by your presence, your participation in class discussions, and your attention to class presentations.
- Students should arrive ON Time. Late arrivals are NOT acceptable as noted above.
- Students are expected to read the assigned textbook material prior to the class.
- To create a pleasant learning environment, students MUST turn off their cell phones and other potentially disruptive electronic devices. Only laptop computers and recorders are allowed to take class notes. Those laptop computers should be operated with MUTE function on (i.e. sound off). You give up the privilege of using your laptop computer in class, if you are caught using your computer for other activities such as reading emails, chatting, etc. If you anticipate a phone message and must leave the class, please let me know before class starts. When it comes in, just get up and leave the classroom.

Important Dates:

HTTP://WEB.TAMUC.EDU/ADMISSIONS?REGISTRAR/DOCUMENTS/20132104/ACADEMICCALENDER.PDF

Exams and Grading: Grades will be computed based on a total score of 500 points. You will take 4 lecture exams (100 points each) and, if necessary, a comprehensive exam at the end of the semester. This comprehensive exam can be used to replace a low score of one of the lecture exams (1 – 4). Extra credit is possible (20 points). The laboratory grade will equate 100 points from the best scores of 12 quizzes or more.

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<table>
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<tr>
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<tbody>
<tr>
<td>4 Lecture exams (100 points each, lowest score may be dropped*)</td>
<td>400</td>
</tr>
<tr>
<td>1 Comprehensive exam (100 points)</td>
<td>100</td>
</tr>
<tr>
<td>Extra Credit possible</td>
<td>20</td>
</tr>
<tr>
<td>Laboratory points</td>
<td>100*</td>
</tr>
<tr>
<td><strong>Total BSC 1411 course grade</strong></td>
<td>500**</td>
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*In lab, the student will take at least twelve, 10-point quizzes with ten (10) highest scores being counted. **Note that lecture counts for 60% of the total course points, whereas the laboratory counts for the other 40%. The lowest lecture exam will be dropped, if the comprehensive score is greater. Lecture exams will be closed book but one (3x5) card will be allowed. Other aids like a copy of the periodical table can be brought into class by the student.
Lecture exams will be a mixture of multiple choices, matching, labeling, short answer questions, and short essay-type questions. These exam questions will cover key topics, which were presented in lecture.

**Grading Scale:** The final course grade will be assigned based on the following break-down:

<table>
<thead>
<tr>
<th>Percentage Range</th>
<th>Grade</th>
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<tbody>
<tr>
<td>90 – 100%</td>
<td>A</td>
</tr>
<tr>
<td>80 – 89%</td>
<td>B</td>
</tr>
<tr>
<td>70 – 79%</td>
<td>C</td>
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<tr>
<td>60 – 69%</td>
<td>D</td>
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<tr>
<td>59% or below</td>
<td>F</td>
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**Makeup:** The student is responsible for requesting a makeup when they are unable to take the regularly scheduled exam. The request should be made within 7 days of the absence. Makeup exams will be scheduled only in the event of EXCUSED absence (as defined in the Student’s Guidebook). If the test is NOT made-up, the student will receive a Zero for that exam. The comprehensive exam can take the place of one of the lecture exams.

**Teaching/exams Aids:** Classroom lectures consisting of the slides presented in class will be posted via e-College. Supplemented materials will also be posted. Students are strongly encouraged to print lecture slides (3 slides per page) prior to the class and bring them to class. Periodically, be sure to check course homepage as well as your email for course announcements.

**Tentative Schedule of Topics***:

<table>
<thead>
<tr>
<th>Week</th>
<th>Start Date</th>
<th>Lecture Topic(s)</th>
<th>Exams</th>
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<tbody>
<tr>
<td>1</td>
<td>Aug 29-31</td>
<td>Syllabus, Scientific Method, Periodical Table, and How to take Notes. Chapt. 1. CH01. Introduction of Botany2.ppt (Maueth)</td>
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<td>2</td>
<td>Sept 5-9</td>
<td>Chapt. 2. Introduction to the Principles of Chemistry Chapt. 2a. The Chemistry of Plant Macromolecules (Mader, 2013)</td>
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<td>3</td>
<td>Sept 12-16</td>
<td>Chapt. 3. Cell Structure &amp; Function</td>
<td><strong>Review</strong></td>
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<tr>
<td>4</td>
<td>Sept 19-23</td>
<td><strong>Exam #1</strong>. Chapt. 4. Growth &amp; Cell Division (Mitosis)</td>
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<td>5</td>
<td>Sept 26-30</td>
<td>Chapt. 5. Tissues and Primary Growth of Stems</td>
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<td>6</td>
<td>Oct. 3-7</td>
<td>Chapt. 6. Leaves</td>
<td><strong>Review</strong></td>
</tr>
<tr>
<td>7</td>
<td>Oct 10-12-14</td>
<td><strong>Exam # 2</strong>. Chapt. 7. Roots</td>
<td></td>
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<tr>
<td>9</td>
<td>Oct 24-28</td>
<td>Chapt. 9. Flowers &amp; Reproduction</td>
<td><strong>Review</strong></td>
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<tr>
<td>10</td>
<td>Oct 31/Nov 4</td>
<td>Chapt. 10. Energy Metabolism: Photosynthesis (Mader, 2013)</td>
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11 Nov 7-11  Chapt. 11. Energy Metabolism: Cellular Respiration (Mader, 2013)
12 Nov 14-18  Walk  Thanksgiving Vacation
13 Nov 21-25  Chapt. 12. Transport Processes
14 Nov 28-30  Review  Exam #4  Chapt. 15/16 Plant Genes, Genomes & Genetics
15 Dec 1-Dec 9  Chapt. 15/16 Plant Genes, Genomes & Genetics  Review
16 Dec 12-16  Final Week (Comprehensive Exam #5 – TBA)

*This schedule is a general outline for your reference and is subject to change. Any changes will be announced in class and/or at the course website(s); you will be responsible for keeping up with them. Each exam will cover the lecture material given in class; a review class period will allow students to answer questions; each exam will be announced one week before their scheduled time.

University Statements - Academic integrity:

As members of Texas A&M University-Commerce academic community, we all are responsible to underpin the principles of academic integrity expressed by this community. We are expected to watch these principles to be kept and appreciated by others.

The first instance of cheating will result in an automatic Zero on the exam. A second instance will result in Zero course grade (automatic F).

Plagiarism is a serious academic activity. You must cite all sources of the information with proper accreditation. Copying material, whether parts or whole, will result in a Zero for any academic activity and can incur further University disciplinary consequences.

Accommodations: The American with Disability Act (ADA) is a federal anti-discrimination status that provides comprehensive civil rights protection for persons with disabilities. Among other aspects, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability which requires accommodation, please contact: Office of Student Disability Resources or Services Texas A&M University-commerce Gee Library, Room 132 Tel: 903-886-5150, 903-886-5835 Fax: 903-468-8148 E-mail: StudentDisabilityService@tamu-commerce.edu
Website: Office of Student Disability Resources and Services
http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/

Nondiscrimination Notice
Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the Carrying Concealed Handguns On Campus document and/or consult your event organizer.

Web url:
http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

COURSE OUTLINE / CALENDAR

Current semester by specific dates

The syllabus/schedule are subject to change.