REQUIRED TEXTBOOK
NOTE: This is the same textbook and MB subscription you should already have from BSC 1406.

COURSE MEETING TIME/PLACE: MWF 10:00 – 10:50, BA 338

COURSE DESCRIPTION:
BSC 1407 (formerly known as BSC 102) – This course is designed for students in Agricultural Science, Plant and Soil Science, Animal Science, Wildlife and Conservation Science, and in Environmental Science. Students are introduced to animal cellular biology and physiology, animal diversity and classification, and the biogeography and ecology of animal populations. Topics covered include cellular metabolism, animal physiology and genetics, developmental biology and architectural patterns, evolution, and the diversity of animal life. Pre-requisites: a grade of C or better in BSC 101 or 1406. Note: Students must register for both lecture and lab sections.

COURSE OBJECTIVES:
BSc 1407 Introductory Biology II continues introduction to the study of biology and is intended for biology, pre-professional, and pre-vet majors. With successful competition of this course, the beginning biology student should have gained a conceptual and practical understanding necessary for mastery of the life science curriculum. In addition, the student will learn thinking skills necessary for understanding and interpreting scientific information.

CORE LEARNING OUTCOMES:
- In written, oral, and/or visual communication, A&M-Commerce students will communicate in a manner appropriate to audience and occasion, with an evident message and organizational structure.
- Students will be able to interpret, test and demonstrate principles revealed in empirical data.
- Students will be able to work together toward a shared purpose relevant to the course or discipline with a sense of shared responsibility for meeting that purpose.
- Students will be able to analyze, evaluate, or solve problems when given a set of circumstances or data.

LABORATORY:
You must be enrolled in a BSc1407 laboratory section in order to receive credit for the course. The laboratory will account for 25% of your final grade. The laboratory sessions will begin the SECOND week of classes. You will receive a complete schedule, syllabus, and further instructions from your Lab
Instructor at the first meeting. All labs meet in STC 217, and the lab manual will be available for download at eCollege. You are responsible for printing the required pages and maintaining a binder which may be checked (for a grade) at any time. If you are unable to attend your scheduled lab, you MIGHT be able to attend a different section that week, with instructor permission. Correspond directly with the lab instructors—all contact information will be available on the Lab syllabus and at eCollege. See the Schedule of Classes for this semester for available lab meeting times: http://www.tamuc.edu/schedule/

TENTATIVE LECTURE SCHEDULE: Fall 2018

<table>
<thead>
<tr>
<th>Week</th>
<th>Start Date</th>
<th>Topic</th>
<th>Other Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A 27</td>
<td>Introduction, Ch. 22: Evolution &amp; Darwin</td>
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</tr>
<tr>
<td>2</td>
<td>S 03</td>
<td>Ch. 23: Population Evolution</td>
<td>Monday Holiday</td>
</tr>
<tr>
<td>3</td>
<td>10</td>
<td>Ch. 24: Origin of Species</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>17</td>
<td>Ch. 25: History of Life</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>24</td>
<td>Ch. 26: Tree of Life</td>
<td>Exam 1 (Ch.22-26)</td>
</tr>
<tr>
<td>6</td>
<td>O 01</td>
<td>Ch. 28 &amp; 29: Protists &amp; Early Plants</td>
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<tr>
<td>7</td>
<td>08</td>
<td>Ch. 30: Advanced Plants</td>
<td></td>
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<tr>
<td>8</td>
<td>15</td>
<td>Ch. 31: Fungi</td>
<td></td>
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<tr>
<td>9</td>
<td>22</td>
<td>Ch. 32: Animal Diversity</td>
<td></td>
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<tr>
<td>10</td>
<td>29</td>
<td>Ch. 33: Invertebrates</td>
<td>Exam 2 (Ch.28-33)</td>
</tr>
<tr>
<td>11</td>
<td>N 05</td>
<td>Ch. 34: Vertebrates</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>12</td>
<td>Ch. 40: Animal Form &amp; Function</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>19</td>
<td>Ch. 52: Ecology &amp; the Biosphere</td>
<td>Thanksgiving Holiday 22-24</td>
</tr>
<tr>
<td>14</td>
<td>26</td>
<td>Ch. 53 &amp; 54: Population &amp; Community Ecology</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>D 03</td>
<td>Finish up/Review</td>
<td>Exam 3 (Ch.34, 40, 52-54)</td>
</tr>
<tr>
<td>16</td>
<td>10</td>
<td>Comprehensive Final Exam: M10@10:30-12:30</td>
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</tr>
</tbody>
</table>

This schedule is a general outline for your reference and is subject to change. Actual exam dates will be announced a minimum of one week in advance. Final Exams are assigned to dates by the University (see http://www.tamuc.edu/admissions/registrar/academicCalendars/final-exam-schedule.aspx )

ATTENDANCE:
Attendance is mandatory, and a seating chart will be used for ease of recording attendance. Repeated unexcused absences or disruptive behavior such as talking during lecture or repeated tardiness will negatively affect grades (especially if borderline); similarly good attendance and behavior will be rewarded via attendance/participation credit. Missing 20% or more of lecture (unexcused absences) will result in a grade of F for the course. Note that Labs have similar policies, and failing lab will virtually assure failing the course. Please note: Excessive talking or device use and other forms of disruptive behavior are not allowed during class time. Students that are consistently disruptive in class may be dropped from the class without notice.

http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx

NOTE THAT This is a Majors-level course. and you are expected to allot adequate time to regularly studying the material on your own—this material forms the foundation for your advanced classes in the coming terms. You are expected to read all textbook chapters corresponding to topics covered in lecture. We will not use every chapter of the textbook in lecture, and we may discuss some aspects in more detail than your text goes into—so be sure to keep up with lecture notes too! If you miss a lecture, you are still responsible for that day's material—read the chapter, get notes from someone in class, review the powerpoints (posted at eCollege), and see me for any clarification. Also do remember that this is the SECOND course in a series, and you are expected to remember procedures and material from the first half of the series. If you have difficulty with the material, feel free to see me as soon as you can for advice on how best to improve.

http://www.tamuc.edu/admissions/registrar/academicCalendars/final-exam-schedule.aspx
EXAMS AND GRADING:
Grades will be computed based on a "10-point scale" such that a total of 90% or higher of possible points will result in a grade of A, between 80% and 89.9% a B, and so on. If your total is lower than 60% of the class points you will fail the class (yes, that’s an F). The points are planned to be as follows:

<table>
<thead>
<tr>
<th>Mastering Biology</th>
<th>100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exam 1</td>
<td>100</td>
</tr>
<tr>
<td>Exam 2</td>
<td>100</td>
</tr>
<tr>
<td>Exam 3</td>
<td>100</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>100</td>
</tr>
<tr>
<td>Attendance/Participation</td>
<td>25</td>
</tr>
<tr>
<td>Lab grade</td>
<td>175</td>
</tr>
<tr>
<td></td>
<td>700</td>
</tr>
</tbody>
</table>

Exams will be announced in class and posted at eCollege at least one week in advance. Regular exams will include questions drawn from lecture notes, handouts, or Mastering Biology assignments. The final exam will be comprehensive. No exam grades will be dropped. Any student caught cheating on an exam will receive a zero for that exam. Students are responsible for supplying their own Scantron cards (F 882-E, narrow green, 50 questions per side), and should bring pencils (#2/HB lead) and a good eraser. All other items must be left in the front of the classroom. Cell phones MUST BE TURNED OFF during exams – failure to comply with this may result in 10 points being deducted from exam grades.

MAKE-UP WORK:
In the case of a missed exam, with presentation of a valid and documented excuse you may arrange for a make-up exam. Such make-ups MUST be scheduled with me within 7 days of the missed test (if you are not in town, pick up the telephone or have a friend do it), and may be mainly short answer or essay in nature. Lack of such arrangements will result in a score of 0 for that test, and only ONE exam may be made up in this fashion. Such make-up exams will be given during finals week ONLY. Extreme circumstances will always be taken into consideration- SEE ME before you assume anything.

MASTERINGBIOLOGY ACCESS:
You are required to purchase the Mastering Biology (MB) online course component and complete all of the homework assignments listed- these exercises will have the same weight in your grade as an exam! If you have already enrolled in MB, you should need only login and register for this “new course”- you do NOT have to purchase access for each class, but rather you have a 2 year subscription and may enroll in as many courses as you have section numbers for. My course ID is BSC1407LHENLEYFALL2018.

If you have NOT previously enrolled at MB, then you’ll need to create an account: Go to http://www.masteringbio.com to enroll in Mastering Biology (and the University zipcode is 75428). Do not check yes for the Virtual Labs.

Either way, once you login you will see a window that shows Recent and Upcoming Assignments (you may need to scroll down). Please note that assignments have due dates – they do not receive credit if turned in late. It is the student’s responsibility to keep track of due dates - failure to complete assignments by the due dates will result in a zero for the assignment. You will have an assignment for each chapter covered in lecture, plus a tutorial to get started. Each assignment consists of several activities, multiple-choice questions, and quizzes; your grade will be based upon the total of all of those scores combined (that is, you will have one grade for each assignment). Assignments will remain available for students to use to study for tests, although points cannot be earned after the due date; there are also many excellent resources for studying for exams in the Study Area. There are tutorials for how to use this system- be sure to complete them first to avoid blowing points on navigation errors or misunderstandings. Or ask for help.
TUTORING:
There are ample free tutors available for many courses on campus, including this one. In fact, extra credit will be awarded to students that have attended approved tutoring sessions. This course has a dedicated tutor(s) through SI:
http://www.tamu.edu/CampusLife/CampusServices/AcademicSuccessCenter/tutorInfo/default.aspx. The tutor (generally someone who did very well in this class in recent semesters) is available for help with homework, lab work, studying for tests, or any questions you may have, and frequently visits lectures. Tutors will also have review sessions prior to each test. In addition you may visit JAMP Room Biology tutoring – STC #110; schedule will be posted outside the door. For questions regarding JAMP, please contact Dr. Slovak 903-886-5368 or john.slovak@tamuc.edu.

RESOURCES:
There are a variety of resources at your disposal to aid with your studies in addition to your Mastering Biology account. This lecture is “Web Enhanced”- it has an eCollege site that you will be expected to use regularly; you can enter via your MyLeo account, or go directly to http://online.tamu.edu. There is also a wide variety of study aids available at the text’s website, accessible through your MasteringBiology account.

You may also find useful the Academic Success Center services, which include tutoring and workshops (including such topics as “Managing Test Anxiety”):
http://www.tamu.edu/CampusLife/CampusServices/AcademicSuccessCenter/default.aspx
Try out these features early, while they have time to help you!

And of course the Academic Calendar, which does include information regarding University holidays, deadlines to add, drop, withdraw, and other such activities. This page also includes the link to each semester’s Final Exam schedule (which may also be useful for your other courses):
http://www.tamu.edu/admissions/registrar/academicCalendars/

Additionally, you may find the following Biology websites useful:
- Cells Alive! http://www.cellsalive.com/
- The Biology Project http://www.biology.arizona.edu/
- Online Biology Book http://www.emc.maricopa.edu/faculty/farabee/BIOBK/BioBookTOC.html
- Kimball’s Biology Pages http://users.rcn.com/kimball.ma.ultranet/BiologyPages/
- The Tree of Life Project http://tolweb.org/tree/

OTHER NOTES (INCLUDING OFFICIAL UNIVERSITY STATEMENTS/AKA: THE FINE PRINT)
It is the responsibility of the student to inform me of any problems you may have affecting your performance in class, be it due to professionally diagnosed disability, personal or work-related problems, or anything else that comes up, so that appropriate adjustments can be made.

Early intervention for freshmen is designed to communicate the University’s interest in their success and a willingness to participate fully to help students accomplish their academic objectives. The university through faculty advisors and mentors will assist students who may be experiencing difficulty to focus on improvement and course completion. This process will allow students to be knowledgeable about their academic progress early in the semester and will provide faculty and staff with useful data for assisting students and enhancing retention. Grade reports will be mailed by the end of the sixth week of the semester.
TECHNOLOGY REQUIREMENTS

Browser support

D2L is committed to performing key application testing when new browser versions are released. New and updated functionality is also tested against the latest version of supported browsers. However, due to the frequency of some browser releases, D2L cannot guarantee that each browser version will perform as expected. If you encounter any issues with any of the browser versions listed in the tables below, contact D2L Support, who will determine the best course of action for resolution. Reported issues are prioritized by supported browsers and then maintenance browsers.

Supported browsers are the latest or most recent browser versions that are tested against new versions of D2L products. Customers can report problems and receive support for issues. For an optimal experience, D2L recommends using supported browsers with D2L products.

Maintenance browsers are older browser versions that are not tested extensively against new versions of D2L products. Customers can still report problems and receive support for critical issues; however, D2L does not guarantee all issues will be addressed. A maintenance browser becomes officially unsupported after one year.

Note the following:

- Ensure that your browser has JavaScript and Cookies enabled.
- For desktop systems, you must have Adobe Flash Player 10.1 or greater.
- The Brightspace Support features are now optimized for production environments when using the Google Chrome browser, Apple Safari browser, Microsoft Edge browser, Microsoft Internet Explorer browser, and Mozilla Firefox browsers.

### Desktop Support

<table>
<thead>
<tr>
<th>Browser</th>
<th>Supported Browser Version(s)</th>
<th>Maintenance Browser Version(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft® Edge</td>
<td>Latest</td>
<td>N/A</td>
</tr>
<tr>
<td>Microsoft® Internet Explorer®</td>
<td>N/A</td>
<td>11</td>
</tr>
<tr>
<td>Mozilla® Firefox®</td>
<td>Latest, ESR</td>
<td>N/A</td>
</tr>
<tr>
<td>Google® Chrome™</td>
<td>Latest</td>
<td>N/A</td>
</tr>
<tr>
<td>Apple® Safari®</td>
<td>Latest</td>
<td>N/A</td>
</tr>
</tbody>
</table>

### Tablet and Mobile Support

<table>
<thead>
<tr>
<th>Device</th>
<th>Operating System</th>
<th>Browser</th>
<th>Supported Browser Version(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Android™</td>
<td>Android 4.4+</td>
<td>Chrome</td>
<td>Latest</td>
</tr>
<tr>
<td>Apple</td>
<td>iOS*</td>
<td>Safari, Chrome</td>
<td>The current major version of iOS (the latest minor or point release of that major version) and the previous major version of iOS (the latest minor or point release of that major version). For example, as of June 7, 2017, D2L supports iOS 10.3.2 and iOS 9.3.5, but not iOS 10.2.1, 9.0.2, or any other version. Chrome: Latest version for the iOS browser.</td>
</tr>
<tr>
<td>Windows</td>
<td>Windows 10</td>
<td>Edge, Chrome, Firefox</td>
<td>Latest of all browsers, and Firefox ESR.</td>
</tr>
</tbody>
</table>
• You will need regular access to a computer with a broadband Internet connection. The minimum computer requirements are:
  o 512 MB of RAM, 1 GB or more preferred
  o Broadband connection required courses are heavily video intensive
  o Video display capable of high-color 16-bit display 1024 x 768 or higher resolution

• You must have a:
  o Sound card, which is usually integrated into your desktop or laptop computer
  o Speakers or headphones.
  o *For courses utilizing video-conferencing tools and/or an online proctoring solution, a webcam and microphone are required.

• Both versions of Java (32 bit and 64 bit) must be installed and up to date on your machine. At a minimum Java 7, update 51, is required to support the learning management system. The most current version of Java can be downloaded at: JAVA web site http://www.java.com/en/download/manual.jsp

• Current anti-virus software must be installed and kept up to date.

Running the browser check will ensure your internet browser is supported.
  Pop-ups are allowed.
  JavaScript is enabled.
  Cookies are enabled.

• You will need some additional free software (plug-ins) for enhanced web browsing. Ensure that you download the free versions of the following software:
  o Adobe Reader https://get.adobe.com/reader/
  o Adobe Flash Player (version 17 or later) https://get.adobe.com/flashplayer/
  o Adobe Shockwave Player https://get.adobe.com/shockwave/
  o Apple Quick Time http://www.apple.com/quicktime/download/

• At a minimum, you must have Microsoft Office 2013, 2010, 2007 or Open Office. Microsoft Office is the standard office productivity software utilized by faculty, students, and staff. Microsoft Word is the standard word processing software, Microsoft Excel is the standard spreadsheet software, and Microsoft PowerPoint is the standard presentation software. Copying and pasting, along with attaching/uploading documents for assignment submission, will also be required. If you do not have Microsoft Office, you can check with the bookstore to see if they have any student copies.

ACCESS AND NAVIGATION
You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT

Brightspace Support
Student Support

If you have any questions or are having difficulties with the course material, please contact your Instructor.
Technical Support
If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778 or click on the Live Chat or click on the words “click here” to submit an issue via email.

System Maintenance
Please note that on the 4th Sunday of each month there will be System Maintenance which means the system will not be available 12 pm-6 am CST.

UNIVERSITY SPECIFIC PROCEDURES

Student Conduct
All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the Student Guidebook. [http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx](http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx)

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: Netiquette [http://www.albion.com/netiquette/corerules.html](http://www.albion.com/netiquette/corerules.html)

TAMUC Attendance
For more information about the attendance policy please visit the Attendance webpage and Procedure 13.99.99.R0.01. [http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx](http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx)

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf

Academic Integrity
Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:


Graduate Student Academic Dishonesty 13.99.99.R0.10 [http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf](http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf)

“Plagiarism is a criminal activity. You must cite all sources of information. Unreferenced copying of material, whether parts of sentences, whole sentences, paragraphs or entire articles, will result in a score of zero for your essay and can result in further disciplinary action.” Note that this is true throughout the University and we do have plagiarism-detecting software in place. Of special note in an online environment- “cut and paste” from websites without appropriate citation IS plagiarism, yet putting everything in quotation marks is not an acceptable alternative. You must learn to construct your own sentences with information you find (and changing a couple of words in a sentence or reordering sentences in a paragraph are not enough). If you have any questions about what is considered plagiarism or wish advice on avoiding it, please contact your instructor.
ADA Statement

Students with Disabilities
The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services
Texas A&M University-Commerce
Gee Library- Room 162
Phone (903) 886-5150 or (903) 886-5835
Fax (903) 468-8148
Email: studentdisabilityservices@tamuc.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.

FINAL NOTE:
I make efforts to conserve resources (and cost) in providing materials for class. All materials provided in class are to be found at the MLO website. I will not provide hard-copy handouts of anything that you can access there- you may print what you need, when you need it; or just download a copy to have handy. Clearly computer access is assumed of all students. If you do not have one of your own (or your online access is limited), there are computer labs available all around campus- Gee Library most notably, and more locally Science building room 210. There are even kiosks for checking out a laptop. You may need to provide your own paper for printing, or pay a charge. Also, places like Staples and OfficeDepot will print materials for a reasonable fee if you bring your flash-drive. Last bit of advice: Get a Calendar. Learn how to use it. ☺