



## **IS 1315 – Integrated Science I**

COURSE SYLLABUS: Spring 2020

### **INSTRUCTOR INFORMATION**

Instructor: Dr. Bao-An Li

Office Location: Science Building room 142

Office Hours: Tue & Thr, 11:00 AM - 5:00PM, or by appointment

Office Phone: 903-886-5478

Office Fax: 903-886-5480 (Department of Physics and Astronomy)

University Email Address: Bao-An.Li@tamuc.edu

Preferred Form of Communication: email

Communication Response Time: within 24 hours

### **COURSE INFORMATION**

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required: Conceptual Integrated Science, 2nd Edition, by Hewitt, Lyons, Suchocki, & Yeh. ISBN: 13: 978-0321818508

Software Required: none

Optional Texts and/or Materials: Students must have access to a computer with internet connection.

*The syllabus/schedule are subject to change.*

## Course Description

This is a University Science course. The interdisciplinary application of scientific principles is emphasized. The scientific principles developed in this course primarily include physics, chemistry, Earth science, and other topics typically covered in physical science. Connections and applications of these principles to the other sciences are examined. Science is an interesting and diverse topic; it is the instructor's intent to demonstrate that learning can be enjoyable as well as educational. Science is what allows mankind to function in a productive manner.

## Student Learning Outcomes

- Students will gain better understanding of physical science concepts.
- Students will better understand scientific processes and test for further scientific knowledge.
- Students will understand the conceptual differences between facts, theories, and laws.
- Students will be able to compare the separate science disciplines and make integrative connections.

## COURSE REQUIREMENTS

### Minimal Technical Skills Needed

Students will need computer access to complete various assignments. Throughout this course, students will be using tools and technology to complete assignments and virtual labs. **Important:** Being an online course there is an assumption that participating students have the basic computer skills needed to complete online assignments in myLeo online (D2L). In addition, a working computer and a stable internet connection is required for this course and also assumed to be present. The student is responsible for completing all assignments including computer simulation labs (JAVA, flash, HTML5) on time and any problems with student owned computer equipment and/or internet connection will not be taken into consideration for missing or late assignments.

### Instructional Methods

Students will study class materials through myLeo online (D2L) system. There will be reading materials, homework, and online lab simulations each week. Based on the understanding of the materials, a short quiz will be assigned every week.

To get started with the course, go to: <http://www.tamuc.edu/myleo.aspx>.

You will need your CWID and password to log in to the course. If you do not know your CWID or have forgotten your password, contact Technology Services at 903.468.6000 or [helpdesk@tamuc-commerce.edu](mailto:helpdesk@tamuc-commerce.edu).

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## **Student Responsibilities or Tips for Success in the Course**

Students must check an online course on myLeo online (D2L) every week. All assignments and tests will be posted on D2L system.

## **GRADING**

Final grades in this course will be based on the following scale:

A = 90%-100%

B = 80%-89%

C = 70%-79%

D = 60%-69%

F = 59% or Below

### **Grading Procedure**

Homework: 20%, Quiz: 30%, Midterm exams: 25%, Comprehensive final exam: 25%

\* The scales can be adjusted by the instructor.

## **TECHNOLOGY REQUIREMENTS**

### **LMS**

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

[https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\\_support.htm](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

## **ACCESS AND NAVIGATION**

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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](mailto: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**

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. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

### **Interaction with Instructor Statement**

The instructor will respond within 24 hours by email. Each graded assignment and test will be returned within a week.

## **COURSE AND UNIVERSITY PROCEDURES/POLICIES**

### **Course Specific Procedures/Policies**

#### **General Classroom**

Students are expected to be on time and present for all class meetings. If an emergency results in an absence, the student should contact the instructor as soon as possible informing the instructor of the emergency and inquiring about ways to make up the missed class. The instructor will make judgment on how to handle the situation. Possible reasons for excused absence are listed in the "Student's Guidebook" under class attendance policy. Attendance and tardy records will be maintained and both may result in deductions from your overall grade. Five unexcused absences will automatically result in a failing grade.

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## **Syllabus Change Policy**

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

## **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>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum:

<https://www.britannica.com/topic/netiquette>

### **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/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:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

[Graduate Student Academic Dishonesty 13.99.99.R0.10](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

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## **Students with Disabilities-- ADA 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 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](mailto: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>

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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

Week 1	01/13/2020	-	01/19/2020	Ch.1: About Science
Week 2	01/20/2020	-	01/26/2020	Ch. 2: Describing Motion
Week 3	01/27/2020	-	02/02/2020	Ch. 3: Newton's Laws of Motion
Week 4	02/03/2020	-	02/09/2020	Ch. 4: Momentum and Energy
Week 5	02/10/2020	-	02/16/2020	Ch. 5: Gravity
Week 6	02/17/2020	-	02/23/2020	Review 1 - Ch. 1,2,3,4,5
Week 7	02/24/2020	-	03/01/2020	<b>Midterm</b>
Week 8-9	03/02/2020	-	03/08/2020	Ch. 6: Heat, ---- week 9: SpringBreak March 9-15
Week 10	03/16/2020	-	03/22/2020	Ch. 7: Electricity and Magnetism
Week 11	03/23/2020	-	03/29/2020	Ch. 8: Waves - Sound and Light
Week 12	03/30/2020	-	04/05/2020	Review 2 - Ch. 6,7,8
Week 13	04/06/2020	-	04/12/2020	Ch. 28: The Solar System
Week 14	04/13/2020	-	04/19/2020	Ch. 29: The Universe
Week 15	04/20/2020	-	04/26/2020	Review 3 - Ch. 28, 29
Week 16	04/27/2020	-	05/08/2020	<b>Final Exam and Teaching Evaluation</b>
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