



# **Integrated Science 352.51W**

## **Science Inquiry II**

### **COURSE SYLLABUS: Spring 2021**

**Instructor:** Kenric Davies, MAT

**Office Hours: By Appointment ONLY** T 5:30-7:30 & W 6:00-8:00 pm  
Zoom Meeting ID: <https://zoom.us/j/3512721625>

**University Email Address:** [kenric.davies@tamuc.edu](mailto:kenric.davies@tamuc.edu)

**Preferred Form of Communication:** Email

**Communication Response Time:** Approximately 48 hrs.

## **COURSE INFORMATION**

**Textbook:** IS 352B Lab Manual eBook (ISBN: 978-1-64565-013-3), purchase 150 day access at <https://bit.ly/IS352-B-eText>

### **Course Description**

Science topics and themes are chosen to emphasize broad concepts highlighted in the Texas and National Science Standards. Topics include fundamental physical and chemical processes such as the chemistry of the environment, macromolecules of life, systems in nature, and the nature of scientific inquiry. The course will be taught using an inquiry based method, modeling instructional techniques proven effective by current educational research. This course is designed for interdisciplinary majors. It will not count towards a major in the sciences. Prerequisites: Junior level standing.

#### *Practical description*

Science spans a broad range of topics, from biology to geology to astronomy. More than just a collection of facts, science provides a way of learning about and understanding the world. Scientific study leads to many technological advances. Science can be both fun and interesting to learn. In this course, the nature of science and the scientific method are introduced. Critical thinking is emphasized. Primarily chemistry related topics are covered. These topics include states of matter, atoms and molecules, the periodic table, chemical reactions, and acids and bases. This course models inquiry based teaching methods.

## Student Learning Outcomes

1. Students will be able to describe the parts of the atom.
2. Students will be able to determine whether a change is physical or chemical.
3. Students will be able to find science lessons appropriate for use in K-8 classrooms and identify which TEKS they satisfy.

## COURSE REQUIREMENTS

### Instructional / Methods / Activities Assessments

**This course is a completely ONLINE course for the Spring 2021 semester.**

Virtual recorded lectures and/or readings will be used to introduce topics. Students are encouraged to ask questions while reviewing material throughout the week. However, the primary instructional method for this course will be hands-on activities from the course lab manual presented in a virtual setting. Activities can be completed in groups up to 4. Students may choose their own groups at the beginning of the semester, but the instructor may assign groups at a later date.

Education research shows that learning is enhanced through group work. Students can do more together than they can do on their own. A discussion board will be created to facilitate students finding others to work with on course assignments.

## GRADING

Grades will be based on four components:

Exams	45%
Notebook	25%
Homework	20%
In-class activities and labs	10%

Grading scale:

90% < A < 100%
80% < B < 89%
70% < C < 79%
60% < D < 69%
F < 60%

In order to pass the course, you must achieve a 65 or higher on at least one exam (first exam, second exam, or final), regardless of your average calculated using the above weighting.

Exams: There will be two midterms and a final. They will be weighted equally. Midterms will be scheduled at least two weeks in advance. The date will depend on the speed at which material is covered. See the course outline for *approximate* dates. Make-up exams will only be allowed for excused absences. See course policies below for details on excused absences.

Notebook: Guidelines for the notebook will be provided in a separate document.

Virtual activities and labs: Activities and labs will be graded. Assignments can be completed as a group, but your effort will determine your individual score.

Homework: Up to 10 homework assignments will be assigned throughout the semester.

Homework is due at the end of each week; on the following **Sunday at 11:59 pm**.

Homework will be accepted up to a week late; 25% will be taken off if received up to one week late. Homework will not be accepted after one week from the due date.

Class participation: You will receive a participation grade for *each week* (except the first day and exam days) based on your participation in group activities.

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

### **Course Specific Procedures**

1. Attendance will be taken by completing assignments by the due date each week. All assignments are due by the following **Sunday at 11:59 pm** the week they are assigned.
2. You are responsible for checking D2L/Brightspace for weekly announcements and assignments.
3. Excessive incomplete assignments may result in being dropped from the course.
4. When emailing the instructor, include the **course and section number in the subject line**.
5. You are expected to check your email at least once a day for class announcements. Emails will be sent to the email addresses you provided to MyLeo. Notify the instructor if you would prefer to receive emails at a different address.
6. Homework is due by online submission at the end of each week. The due date is the following **Sunday at 11:59 pm**.
7. Students should fully participate in class activities. Failure to do so could impact the student's class attendance/participation grade.
8. Students are expected to be professional and respectful and take responsibility for their learning. If you find yourself struggling, the instructor is available to provide extra help outside of class.

### **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/registrar/documents/studentGuidebook.pdf>

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>

## TAMU-C 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>

## 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 132

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: [Rebecca.Tuerk@tamuc.edu](mailto:Rebecca.Tuerk@tamuc.edu)

[StudentDisabilityServices@tamuc.edu](mailto:StudentDisabilityServices@tamuc.edu)

## Nondiscrimination Statement

A&M-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

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: (<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>) and/or consult your event organizer). 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

<u>Date</u>	(Exam dates are approximate.)
1/11	Syllabus, Relationships, Nature of Science
1/18	Properties of Matter
1/25	States of Matter
2/1	Physical/ Chemical Changes
<b>2/8</b>	<b>Exam 1 – Matter and Physical/ Chemical Changes</b>
2/15	Atoms
2/22	Periodic Table
3/1	Elements, Compounds, Mixtures
3/8	Balancing Chemical Equations
3/15	Balancing Chemical Equations
<b>3/22</b>	<b>Exam 2 – Atoms, Elements, Reactions</b>
3/29	Acids & Bases
4/5	Acids & Bases, pH
4/12	Chemicals of Life
4/19	Review
<b>4/26</b>	<b>Final Exam</b>