



Integrated Science 352.51E

Science Inquiry II

COURSE SYLLABUS: Spring 2020

INSTRUCTOR INFORMATION

Instructor: Kenric Davies, MAT

Office Hours: By Appointment ONLY WF 6:00-8:00 pm

Zoom Meeting ID: <https://zoom.us/j/3512721625>

University Email Address: kenric.davies@tamuc.edu

Preferred Form of Communication: Email

Communication Response Time: Approximately 48 hrs.

COURSE INFORMATION

Textbook: IS 352B Lab Manual 2018-19, available at the campus bookstore
(ISBN: 978-1-61740-644-7)

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.

The syllabus/schedule are subject to change.

Student Learning Outcomes

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

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Students need to be able to access the online course management system (D2L/Brightspace) and be familiar with Microsoft Word, PowerPoint, and Excel. Students will also need to be able to upload scanned or photographed assignments to the online course management system (D2L/Brightspace)

Instructional Methods

Lecture and/or readings will be used to introduce topics. Students are encouraged to ask questions during lecture. However, the primary instructional method for this course will be hands-on activities. Activities will be completed in groups of 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. Note that there will be no make-ups for group activities

Student Responsibilities or Tips for Success in the Course

Students should log in to D2L/Brightspace weekly (before each class) to obtain information about assignments and posted materials.

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

Grades will be based on four components:

Exams	45%
Notebook	25%
Homework	20%
Class attendance/ participation	10%

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Assessments

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.

Homework: Up to 10 homework assignments will be assigned throughout the semester. The lowest grade will be dropped. Homework is due at the beginning of class. Homework will be accepted up to a week late. 25% will be taken off if received up to one class day late, and 50% will be taken off if received up to two class days late.

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

YouSeeU Virtual Classroom Requirements:

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

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

If you have any questions or are having difficulties with the course material, please contact your Instructor.

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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 return email communication within two days (48 hrs) of initial email. All major assessments (tests/notebook) will be graded within one (1) week of submission.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

1. Attendance will be taken by sign-in sheet each class; it is the responsibility of the student to sign-in. Failure to sign in will result in a loss of credit for the class despite physical presence.
2. The instructor must be notified by email (kenric.davies@tamuc.edu) about any excused absences **no later than 24 hours after the missed class**. Even if you choose to notify the instructor in person, you **must still follow up with email** within 24 hours of the missed class. If you do not follow this policy, you will have the zero participation grade counted, lose points for late work, and not be able to make up a missed exam.
3. You are responsible for obtaining notes and class announcements from missed classes.
4. Excessive absences may result in being dropped from the course.
5. When emailing the instructor, include the **course and section number in the subject line**.
6. 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.
7. Homework is due by online submission at the beginning of class and will be counted late after class starts.
8. Students should fully participate in class activities. Failure to do so could impact the student's class attendance/participation grade.
9. 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.

The syllabus/schedule are subject to change.

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>

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

The syllabus/schedule are subject to change.

Website: [Office of Student Disability Resources and Services](http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/)

<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

<u>Date</u>	(Exam dates are approximate.)	3/10	Balancing Chemical Equations
1/14	Syllabus, Relationships, Nature of Science	3/17	Spring Break – No Class
1/21	Properties of Matter	3/24	Balancing Chemical Equations
1/28	States of Matter	3/31	Exam 2 – Atoms, Elements, Reactions
2/4	Physical/ Chemical Changes	4/7	Acids & Bases
2/11	Exam 1 – Matter and Physical/ Chemical Changes	4/14	Acids & Bases, pH
2/18	Atoms	4/21	Chemicals of Life
2/25	Periodic Table*	4/28	Review
3/3	Elements, Compounds, Mixtures	5/5	Final Exam (normal class time)

* Possible Online Class – More instructions given in class

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