

# Summer I 2023

Instructor:Dr. Bukuo NiOffice:Science Building 303Office Hours:Virtual office at D2L or by appointment.Contact Information:Tel : (903) 886 - 5382; bukuo.ni@tamuc.edu

#### **Course Information**

Class time and loction: Meets M-F, 6/5/2023 through 7/6/2023; Science building #306

#### **Course Description**

The course will provide students with the knowledge and skills needed to conduct laboratory research and design experiments. Data analysis and report writing skills will also be developed which are needed to interpret laboratory research and produce technical scientific reports. Over the course we will cover a range of organic and organometallic research experiments and their results analysis. You will become familiar with asymmetric chemistry and its data analysis. You will also be required to develop critical reading skills of research papers and develop your technical writing skills. The class will be assessed by weekly written reports and research presentations.

**Student learning outcomes:** Students will gain the necessary skills involved in conducting organic and organometallic scientific research. The skills will include conducting experiments by the procedures, monitoring the reaction progress, purification of products by flash chromatography, identification of products' structure by instruments, such as NMR and HPLC. During the course you will develop the skills and material needed for a technical research report. The database searching portion of the course will familiarize you with the software tools of Web of Science and Endnote. The instrumental analysis portion of the course will cover proton and carbon nuclear magnetic resonance (NMR), high performance liquid chromatography (HPLC), infrared spectroscopy (IR), polarimeter. Students will be required to complete weekly assignments, present their research results to the group and develop weekly research progress reports.

#### Course requirements, assignments and grading:

#### Research assignments:

Weekly research assignments: introduction to a scientific problem, literature review report, and weekly research report with next week's research plan. (60%) Midterm research report: based on research results, literature review (15%) Final research report: based on research results and literature review (25%)

A: >90; B: 80-89; C: 70 -79; D: 60-69; F: <60. The last drop date for the course, please check the university website: http://www.tamuc.edu/Admissions/registrar/academiccalendars/

#### **Student Conduct Policy:**

In order to create a "learning environment" free of disruption, you MUST TURN OFF your cell phones, MP3 players, PDA's, Pagers, and any other electronic devices before entering the class. Students are expected to comply with the student code of conduct as stated Student's Guidebook, Policies and Procedures, Conduct. If the student is failed to comply with the code of conduct and being disrespectful, disruptive to the instructor or the students of the class, the instructor reserves the right to dismiss the student from the class on the first offense. A second offense may constitute dismissal from the course with a failing grade. A and 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 expression will be maintained.

# **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: <u>https://community.brightspace.com/s/article/Brightspace-Platform-Requirements</u> LMS Browser Support: <u>https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\_support</u> <u>.htm</u>

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 <u>helpdesk@tamuc.edu</u>.

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

## **Interaction with Instructor Statement**

**Communication:** If the instructor needs to contact an individual student, it will be via the student's Texas A&M –Commerce email account.

# **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 <u>Student Guidebook</u>.

http://www.tamuc.edu/Admissions/oneStopShop/undergraduateAdmissions/studentGuide book.aspx

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

# **TAMUC Attendance**

For more information about the attendance policy please visit the <u>Attendance</u> webpage and <u>Procedure 13.99.99.R0.01</u>.

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**

#### **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: <u>studentdisabilityservices@tamuc.edu</u> Website: <u>Office of Student Disability Resources and Services</u> <u>http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/</u>

### **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 <u>Carrying Concealed Handguns On Campus</u> 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.