



TEXAS A&M UNIVERSITY  
**SAN ANTONIO**

**QMBS 2301: 600 Quantitative Skills**, Fall 2024, CRN: 11249

Department of Management and Marketing, College of Business

### **Course Syllabus**

**Class Meeting Time and Place:** Online Asynchronous  
**Class Duration:** 08/26/2024-12/13/2024  
**Instructor:** Hyunjung Oh,  
Office: BLH 241-D  
E-Mail: [hyunjung.oh@tamusa.edu](mailto:hyunjung.oh@tamusa.edu)  
Student emails will receive a reply within two business days.  
**Course Website:** <http://tamusa.blackboard.com/>  
**Office Hours:** M 3:30-5:30 pm, W: 12:30-3:30 pm, 7-8 pm

**Catalog Course Description:** This course is a comprehensive introduction to the concepts and applications of mathematics to commercial business problems. The course focuses on the quantitative and analytical methods in the context of practical business applications to enhance essential problem-solving skills of business students. This course will expose students to the major business applications to be encountered in business courses through approaches that reinforce formulation, reasoning and interpretive problem-solving skills essential to practical understanding of business concepts.

**Course Objectives:** the objective of the course is to describe the major business applications which students will encounter in future business courses.

**Prerequisites:** MATH 1324 or 1314, CISA 1305 or CSCI 1336.

**Student Learning Outcomes:** After successful completion of this course, students will be able to:

- 1) Understand how basic problems in an array of business applications are formulated,
- 2) Apply basic problem-solving methods in business applications,
- 3) Explain the basic decision analysis processes applied in business,
- 4) Use and interpret information/data organization related to business applications.
- 5) Apply critical thinking methods in interpreting business application presentations related to business concepts.
- 6) Perform quantitative financial computations using a range of resources to include software tools.

#### **AACSB Assessment:**

The College of Business is in the process of applying for AACSB accreditation. As part of that process, students will be assessed on program level outcomes based on course outcomes from various courses. The materials from this course may be used for assessing such program level outcomes, and hence students must follow the necessary rigor to ensure mastery and retention of the above course outcomes.

## Required Materials:

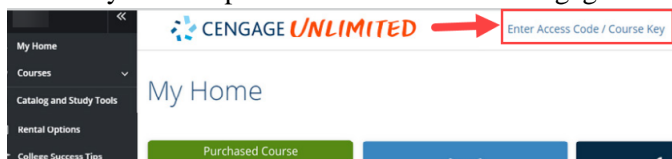
- **Textbook (e-book): Contemporary Mathematics for Business and Consumers, 9<sup>th</sup> Ed., by Brechner & Bergeman, Cengage.**

When you search for the textbook from the campus bookstore, you will see Cengage Unlimited instead of the textbook. You must purchase Cengage Unlimited. It provides unlimited access to Cengage materials, including e-books and platforms such as WebAssign and MindTap. So, if you already purchased Cengage Unlimited from other courses for this semester, you don't need to repurchase it.

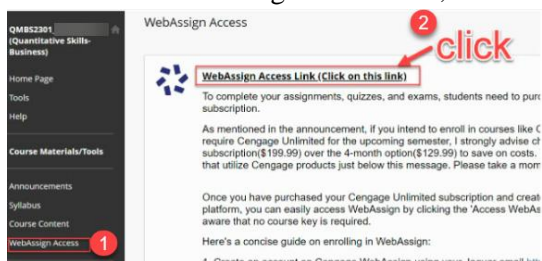
- **Cengage WebAssign:** Homework assignments, quizzes, and exams will be administered through WebAssign. Therefore, students are required to purchase a Cengage Unlimited subscription.

### Procedure for Enrolling in Cengage WebAssign:

1. Create an account on Cengage WebAssign using your Jaguar email: <https://www.cengage.com/>
2. Purchase a Cengage Unlimited subscription:
  - Buy it from the University bookstore or directly from the Cengage website: <https://www.cengage.com/unlimited/>
  - If you plan to enroll in courses such as QMBS2305/QMBS3360 that require Cengage Unlimited for the upcoming semester, I strongly recommend choosing the **1-year subscription (\$199.99)** over the 4-month option(\$129.99) to save on costs. The list of courses utilizing Cengage products is provided in 'WebAssign Access' folder in Blackboard. Please take a moment to review the list.
3. **Redeem your Access code:** Once you've purchased Cengage Unlimited, your access/PIN code will be sent to you through email. If you bought Cengage Unlimited from the campus bookstore, you'll find your access/PIN code on your receipt. Use this code on the Cengage site to unlock your access. (Refer to the picture below.)



4. Enroll in our WebAssign course by navigating to Blackboard:
  - Click on the 'WebAssign Access' tab, then click on the access link.(Refer to the picture below)



5. Sign in to WebAssign using your ID and password.
6. Check your course dashboard on WebAssign:
  - If it displays your quizzes and homework assignments, you have successfully enrolled.
7. Proceed to complete the sample test in WebAssign.

- **Blackboard:** Connect to <http://tamusa.blackboard.com>. You will have lecture notes, and other supplementary materials on Blackboard. Your user ID is the Jaguar ID (aka J Number e.g. J00001234). Students should monitor announcements in Blackboard several times a day.
- **Calculator**
- **Time Expectation for coursework:** This course requires an average of 4-8 hours of weekly study time, but some students may need to devote more hours depending on their background knowledge. Additionally, the time required may increase during the weeks when assignments or exams are due.

**Course Requirements every student must fulfill in order to succeed in course:**

1. Students should check the Course Calendar, Announcements on Blackboard, and Emails on a regular basis.
2. Students should keep current with all course assignments, quizzes, and examinations.
3. If the course uses proctoring for exams, students must schedule their exam early in the semester.
4. Students should ask questions and communicate with the instructor online.
5. For all classwork, exams, quizzes etc., **students are responsible for the availability of internet connectivity. Extensions will not be granted for lack of availability of internet connections.**
6. For online courses, students should keep current on class recordings.
7. Students should remember that online courses assume greater responsibility and independent learning skills by the student for their own learning outcomes.
8. **For online asynchronous courses, there will be no online class sessions. All materials will be made available through Blackboard or through online links.**

**Grading Policy:** The final course grade will be based on your performance on the quizzes, exams and class attendance using the following weights:

<b>Assignments</b>	<b>15%</b>
<b>Quizzes</b>	<b>20%</b>
<b>Exam 1</b>	<b>20%</b>
<b>Exam 2</b>	<b>20%</b>
<b>Final Exam</b>	<b>25%</b>

The final letter grades will be assigned as follows: Above 90%  $\Rightarrow$  A; 80-89.99%  $\Rightarrow$  B; 70-79.99%  $\Rightarrow$  C; 60-69.99%  $\Rightarrow$  D; Below 60%  $\Rightarrow$  F. This course has a requirement of a grade of C as a minimal grade for satisfactory completion of this course.

The instructor reserves the right to adjust the student's final grade based on the overall performance.

**Homework assignments and Quizzes:** There will be 6 homework assignments and 6 quizzes throughout the semester, all conducted on WebAssign. These will be open notes but must be completed independently.

**You may miss or drop one homework assignment and one quiz;** only your highest 5 scores in each category will count toward your grade. This policy accommodates routine illness or occasional work/life conflicts. Makeup quizzes and homework assignments will not be allowed.

**Extensions will not be given for late work unless there is a university wide disruption of blackboard or internet connectivity. Lack of internet access off-campus will not be considered a valid reason for late submission.**

**Exams:** This course will include three mandatory exams: two mid-term exams and a final exam, all of which will be administered on WebAssign. The exams will consist of multiple-choice questions, problem-solving questions. The exam materials will come from lecture notes, the textbook, and class discussions. Questions will emphasize understanding and applications of concepts and topics covered in class.

Please note that **no make-up or late submissions will be accepted for missed exams. Students not taking an exam within the exam period will get a grade of zero and this may result in a failing grade in the course.**

**Academic Integrity sanctions:** incidents of academic misconduct such as cheating will result in a minimum sanction of a 0 on the assignment/quiz/exam. All cases of suspected academic misconduct will be reported to the office of student rights and responsibilities. Take note that plagiarism and other forms of academic dishonesty is subject to severe penalties at the TAMUSA.

**Make up and Late exam policy** As a general rule, no make-ups or late submissions will be offered/accepted for any missed exams. Late submissions or make-ups may be accepted/administered only in extra-ordinary circumstances such as an excused official university activity, a severe illness, or a dire emergency. However, you must provide comprehensive documentation within a few days of the missed exam.

**Class conduct and Civility code:** Everyone in class is expected to follow all rules in the student handbook, as well as common courtesy during classroom lectures and discussions in class and online, including the following:

1. It is the students' responsibility to obtain and be able to use the required materials and software for this class.
2. Students must retain copies of all assignments and graded work for verification purposes and provide it to the instructor, if necessary. Keep your own copies of all computer files and e-mails till final grade is received.
3. For any questions about the exams and assignments, a student should contact the instructor, well in advance of the day they are due, so the instructor may have enough time to provide feedback.
4. All communications will be **via e-mail communications to the Texas A&M University e-mail account**, and students are expected to use their school provided email account. It is the responsibility of the student to check their TAMUSA email regularly to receive updates on the logistics of the course. The instructor will reply to a student e-mail messages within 2 business days during weekdays (Monday-Friday).
5. All assignment submissions must be uploaded as instructed by the due date and time. Submission window may close or marked late, even if late by one second.

Anyone violating these policies may be subject to disciplinary actions.

**Class attendance and Participation:** A vital part of every student's education is regular attendance of class meetings (for face-to-face/hybrid classes/online synchronous classes) or regular review of class materials posted by the instructor for asynchronous classes. Any absences tend to lower the quality of a student's work, and frequent or persistent absences may result in a failing grade. Students are responsible for the materials covered in class.

The course is intensive and challenging and you are expected to master the materials presented in class. The structure of the class makes your individual study and preparation outside of class extremely important, and may vary considerably based on student background. However, a **minimum** of four hours of work outside the class is expected for every one hour of class period per week.

**Academic Misconduct Policy:** Texas A&M University-San Antonio students are expected to exhibit a high level of honesty and integrity in their pursuit of higher education and follow the Texas A&M University-San Antonio Code of Conduct. For more information please visit the Office of Student Rights & Responsibilities website <http://bit.ly/TAMUSAStudentRR>.

Academic misconduct includes, but is not limited to, cheating, plagiarism, multiple submissions, collusion, lying and bribery. In cases of academic misconduct, students may be subject not only to grade sanctions in courses but to disciplinary action. If a student wishes to appeal the decision of suspension or expulsion due to violations of academic misconduct, they must initiate their appeal as outlined within the Student Code of Conduct.

All student term papers and other written assignments are subject to analysis by anti-plagiarism software. Posting of any class work given to student, or solutions, or discussion, on publicly accessible forums or on social media is not permissible unless explicit written permission have been granted by the instructor.

## Fall 2024, QMBS 2301:600 Quantitative Skills, Class Schedule

The provisions and information set forth in the schedule below are intended to be informational and not contractual in nature. I reserve the right to amend, alter, change, delete or modify the provisions of the schedule. All the changes will be announced in class/Blackboard, and you are responsible for the announcements made in class/Blackboard.

Week	Date	Chapter
Week 1	Mon. 8/26	Introduction, Chapter 4
Week 2	Mon. 9/2	Chapter 6
Week 3	Mon. 9/9	Chapter 7
Week 4	Mon.9/16	Chapter 7
Week 5	Mon.9/23	Chapter 8
Week 6	Mon.9/30	Chapter 8
Week 7	Mon.10/7-Tue.10/8	<b>Exam 1</b> (covers Chapters 4,6,7, and 8)
Week 8	Mon.10/14	Chapter 9
Week 9	Mon.10/21	Chapter 9
Week 10	Mon.10/28	Chapter 10
Week 11	Mon.11/4	Chapter 10
Week 12	Mon.11/11- Tue.11/12	<b>Exam 2</b> (covers Chapters 9 and 10)
Week 13	Mon. 11/18	Chapter 11
Week 14	Mon. 11/25	Chapter 11
Week 15	Mon. 12/2	Chapter 21
Week 16	Mon.12/9-Tue.12/10	<b>Final Exam (Cumulative)</b>

## Assignment and Quiz Schedule

Assignments	Open date (Monday, 9am)	Due date (Sunday, 11:59pm)
HW1 & Quiz 1(Chapters 4 and 6)	Aug.26	Sep.8
HW2 & Quiz 2 (Chapter 7)	Sep.9	Sep.22
HW3 & Quiz 3 (Chapter 8)	Sep.23	Oct.6
HW4 & Quiz 4 (Chapter 9)	Oct.14	Oct.27
HW5 & Quiz 5 (Chapter 10)	Oct.28	Nov.10
HW6 & Quiz 6 (Chapter 11)	Nov.18	Dec.1

## Exam Schedule

Exams	Open Date	Due Date
Exam1 (Chapters 4,6,7, and 8)	Oct.7 (Monday, 6 am)	Oct.8 (Tuesday, 11:59pm)
Exam2 (Chapters 9 and 10)	Nov.11 (Monday, 6 am)	Nov.12 (Tuesday, 11:59pm)
Final Exam (Cumulative)	Dec.9 (Monday, 6 am)	Dec.10 (Tuesday, 11:59pm)

## Important Dates for Fall 2024 Semester

The complete academic calendar is available online

: <https://www.tamusa.edu/academics/documents/AY2025-Academic-Calendar.pdf>

- Aug.26 First class day
- Sep.2 Labor Day Holiday- No Classes
- **Sep. 11 Census Date**
- Sep.12 Drop for non-payment
- Nov.11 Last day to drop with an automatic grade of "W"
- Nov.19 Last day to drop a course or withdraw from the University
- Nov.27 Study day No classes
- Nov.28-30 Thanksgiving Holiday-No classes
- Dec.5 Last Day of classes
- Dec.6 Study Day - No classes
- Dec.7-13 Final examinations
- Dec.19 Grades available in JagWire

**Generative Artificial Intelligence (AI):** This course assumes that all work submitted by students will be generated by the students themselves, working individually or in groups. Students should not have another person/entity do the writing of any portion of an assignment for them, which includes hiring a person or a company to write assignments and/or using artificial intelligence (AI) tools like ChatGPT. Use of any AI-generated content in this course qualifies as academic dishonesty and violates Texas A&M-San Antonio's standards of academic integrity.

## IMPORTANT POLICIES AND RESOURCES

**Academic Accommodations for Persons with Disabilities:** Texas A&M University-San Antonio is committed to providing all students with reasonable access to learning opportunities and accommodations in accordance with The Americans with Disabilities Act, as amended, and Section 504 of the Rehabilitation Act. If you experience barriers to your education due to a disability or think you may have a disability, Disability Support Services is located in the Central Academic Building, Suite 210. You can also contact us via phone at (210) 784-1335, visit us <https://www.tamusa.edu/Disability-Support-Services/index.html> or email us at [dss@tamusa.edu](mailto:dss@tamusa.edu). Disabilities may include, but are not limited to, attentional, learning, mental health, sensory, physical, or chronic health conditions. All students are encouraged to discuss their disability-related needs with Disability Support Services and their instructors as soon as possible.

**Academic Learning Center:** The Academic Learning Center provides free course-based tutoring to all currently enrolled students at Texas A&M University-San Antonio. Students wishing to work with a tutor can make appointments through the Brainfuse online tutoring platform. Brainfuse can be accessed in the *Tools* section of Blackboard. You can contact the Academic Learning Center by emailing [tutoring@tamusa.edu](mailto:tutoring@tamusa.edu), calling (210) 784-1307, or visiting the Central Academic Building, room 202.

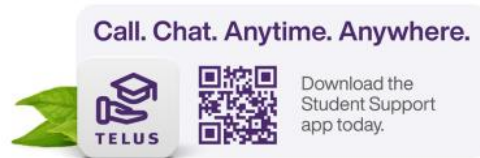
**Counseling/Mental Health Resources:** As a college student, there may be times when personal stressors interfere with your academic performance and negatively impact your daily functioning. If you are experiencing emotional difficulties or mental health concerns, support is available to you through the Student Counseling Center (SCC). To schedule an appointment, call 210-784-1331 or visit Madla 120.

All mental health services provided by the SCC are free and confidential (as the law allows). The Student Counseling Center provides brief individual and group therapy, crisis intervention, consultation, case management, and prevention services. For more information on SCC services visit

<http://tamusa.edu/studentcounseling>

Crisis support is available 24/7 by calling the SCC at 210-784-1331 (after-hours select option '2').

Additionally, the TELUS Student Support App provides a variety of mental health resources to including support for in the moment distress, an anonymous peer to peer support network, mental health screenings, podcasts, and articles to improve your mental wellbeing.



**Emergency Preparedness:** JagE Alert is Texas A&M University-San Antonio's mass notification. In the event of an emergency, such as inclement weather, students, staff and faculty, who are registered, will have the option to receive a text message, email with instructions and updates. To register or update your information visit: <https://tamusa.bbcportal.com/>.

More information about Emergency Operations Plan and the Emergency Action Plan can be found here:

<https://www.tamusa.edu/about-us/emergency-management/>.

Download the SafeZone App (<https://safezoneapp.com/>) for emergencies or call (210) 784-1911. Non-Emergency (210) 784-1900.

**Financial Aid and Verification of Attendance:** According to the following federal regulation, 34 CFR 668.21: U.S. Department of Education (DoE) Title IV regulation, a student can only receive Title IV funds based on Title IV eligibility criteria which include class attendance. If Title IV funds are disbursed to ineligible students (including students who fail to begin attendance), the institution must return these funds to the U.S. DoE within 30 days of becoming aware that the student will not or has not begun attendance. Faculty will provide the Office of Financial Aid with an electronic notification if a student has not attended the first week of class. Any student receiving federal financial aid who does not attend the first week of class will have their aid terminated and returned to the DoE. Please note that any student who stops attending at any time during the semester may also need to return a portion of their federal aid.

**Writing, Language, and Digital Composing Center:** The Writing, Language, and Digital Composing Center supports graduate and undergraduate students in all three colleges as well as faculty and staff. Tutors work with students to develop reading skills, prepare oral presentations, and plan, draft, and revise their written assignments. Our language tutors support students enrolled in Spanish courses and students composing in Spanish for any assignment. Our digital studio tutors support students working on digital projects such as eportfolios, class presentations, or other digital multimedia projects. Students can schedule appointments through JagWire under the Student Services tab. Click on "Writing, Language, and Digital Composing Center" to make your appointment. The Center offers face-to-face, synchronous online, and asynchronous digital appointments. More information about what services we offer, how to make an appointment, and how to access your appointment can be found on our website at <https://www.tamusa.edu/academics/>.

**Meeting Basic Needs:** Any student who has difficulty affording groceries or accessing sufficient food to eat every day or who lacks a safe and stable place to live, and believes this may affect their performance in the course, is urged to submit a CARE referral (<https://www.tamusa.edu/university-policies/Student-Rights-and-Responsibilities/file-a-report.html>) for support. Furthermore, please notify the professor if you are comfortable in doing so. This will enable them to direct you to available resources.

**Military Affairs:** Veterans and active-duty military personnel are welcomed and encouraged to communicate, in advance if possible, and special circumstances (e.g., upcoming deployment, drill requirements, disability accommodations). You are also encouraged to visit the Patriots' Casa in-person room 202, or to contact the Office of Military Affairs with any questions at [military@tamusa.edu](mailto:military@tamusa.edu) or (210)784-1397.

**Religious Observances:** Texas A&M University-San Antonio recognizes the diversity of faiths represented among the campus community and protects the rights of students, faculty, and staff to observe religious holidays according to their tradition. Under the policy, students are provided an opportunity to make up any examination,

study, or work requirements that may be missed due to a religious observance provided they notify their instructors before the end of the second week of classes for regular session classes.

**The Six-Drop Rule:** Students are subject to the requirements of Senate Bill (SB) 1231 passed by the Texas Legislature in 2007. SB 1231 limits students to a maximum of six (6) non-punitive course drops (i.e., courses a student chooses to drop) during their undergraduate careers. A non-punitive drop does not affect the student's GPA. However, course drops that exceed the maximum allowed by SB 1231 will be treated as "F" grades and will impact the student's GPA.

**Statement of Harassment and Discrimination:** Texas A&M University-San Antonio is committed to the fundamental principles of academic freedom, equal opportunity, and human dignity. To fulfill its multiple missions as an institution of higher learning, A&M-San Antonio encourages a climate that values and nurtures collegiality and the uniqueness of the individual within our state, nation, and world. All decisions and actions involving students and employees should be based on applicable law and individual merit. Texas A&M University-San Antonio, in accordance with applicable federal and state law, prohibits discrimination, including harassment, on the basis of race, color, sex, religion, national origin, age, disability, genetic information, veteran status, sexual orientation, gender identity, gender expression, or pregnancy/parenting status. Individuals who believe they have experienced harassment or discrimination prohibited by this statement are encouraged to contact the appropriate offices within their respective units.

Texas A&M University-San Antonio faculty are committed to providing a safe learning environment for all students and for the university as a whole. If you have experienced any form of sex- or gender-based discrimination or harassment, including sexual assault, sexual harassment, domestic or dating violence, or stalking, know that help and support are available. A&M-San Antonio's Title IX Coordinator can support those impacted by such conduct in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, and more. The university strongly encourages all students to report any such incidents to the Title IX Coordinator. Please be aware that all A&M-San Antonio employees (other than those designated as confidential resources such as counselors and trained victim advocates) are required to report information about such discrimination and harassment to the university. This means that if you tell a faculty member about a situation of sexual harassment, sexual violence, or other related misconduct, the faculty member must share that information with the university's Title IX Coordinator (titleix@tamusa.edu, 210-784-2061, CAB 439K). If you wish to speak to a confidential employee who does not have this reporting requirement, you can contact the Student Counseling Center at (210) 784-1331 or visit them in Madla 120.

**Pregnant/Parenting Students:** Texas A&M-San Antonio does not require a pregnant or parenting student, solely because of that status or issues related to that status, to (1) take a leave of absence or withdraw from their degree or certificate program; (2) limit the student's studies; (3) participate in an alternative program; (4) change the student's major, degree, or certificate program; or (5) refrain from joining or cease participating in any course, activity, or program at the University. The university will provide such reasonable accommodations to pregnant students as would be provided to a student with a temporary medical condition that are related to the health and safety of the student and the student's unborn child. These could include maintaining a safe distance from substances, areas, and activities known to be hazardous to pregnant individuals and their unborn child; excused absences because of illness or medical appointments; modified due dates for assignments; rescheduled tests/exams; taking a leave of absence; and being provided access to instructional materials and video recordings of lectures for excused absences, if these would be provided to any other student with an excused absence. Pregnant/parenting students are encouraged to contact the Title IX Coordinator with any questions or concerns related to their status (titleix@tamusa.edu; 210-784-2061; CAB 439K).

Texas A&M-San Antonio has also designated the Title IX Coordinator as the liaison officer for current or incoming students who are the parent or guardian of a child younger than 18 years of age. The Title IX Coordinator can provide students with information regarding support services and other resources.

**Students' Rights and Responsibilities:** The following statement of students' rights and responsibilities is intended to reflect the philosophical base upon which University Student Rules are built. This philosophy



acknowledges the existence of both rights and responsibilities, which is inherent to an individual not only as a student at Texas A&M University-San Antonio but also as a citizen of this country.

### *Students' Rights*

1. A student shall have the right to participate in a free exchange of ideas, and there shall be no University rule or administrative rule that in any way abridges the rights of freedom of speech, expression, petition, and peaceful assembly as set forth in the U.S. Constitution.
2. Each student shall have the right to participate in all areas and activities of the University, free from any form of discrimination, including harassment, on the basis of race, color, national or ethnic origin, religion, sex, disability, age, sexual orientation, or veteran status in accordance with applicable federal and state laws.
3. A student has the right to personal privacy except as otherwise provided by law, and this will be observed by students and University authorities alike.
4. Each student subject to disciplinary action arising from violations of university student rules shall be assured a fundamentally fair process.

### *Students' Responsibilities*

1. A student has the responsibility to respect the rights and property of others, including other students, the faculty and administration.
2. A student has the responsibility to be fully acquainted with the published University Student Rules found in the Student Handbook, [Student Code of Conduct](#), on our website, University Catalog and to comply with them, as well as federal, state, and local laws.
3. A student has the responsibility to recognize that student actions reflect upon the individuals involved and upon the entire University community.
4. A student has the responsibility to recognize the University's obligation to provide an environment for learning.
5. A student has the responsibility to check their university email for any updates or official university notification.

We expect that students will behave in a manner that is dignified, respectful, and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

Students are expected to exhibit a high level of honesty and integrity in their pursuit of higher education. Students engaging in an act that violates the standards of academic integrity will find themselves facing academic and/or disciplinary sanctions. Academic misconduct is any act, or attempt, which gives an unfair advantage to the student. Additionally, any behavior specifically prohibited by a faculty member in the course syllabus or class discussion may be considered as academic misconduct. For more information on academic misconduct policies and procedures please review the Student Code of Conduct (<https://www.tamusa.edu/university-policies/student-rights-and-responsibilities/documents/Student-Handbook-2022-23.pdf>) or visit the resources available in the OSRR website (<https://www.tamusa.edu/university-policies/student-rights-and-responsibilities/academic-integrity.html>).