COURSE DATES, MODALITY, AND LOCATION
Course Dates: January 14, 2019 through May 10, 2019
Room: Founders Hall 307
Time: Tues/Thurs 4:00pm – 5:15pm

This course is a Face-to-Face course; however, the A&M-Central Texas Canvas Learning Management System (Canvas) [https://tamuct.instructure.com] extensively – pretty much for all but the lectures. You will use the Canvas username and password communicated to you separately to logon to this system. The course syllabus, schedule, supplemental readings, class announcements, power point slides, learning modules, homework assignments, exams and other course related documents will be posted on Canvas. Each student is responsible for the posted material, and should check the Canvas at least weekly for updates. The course outline in this syllabus shows the basic schedule for the semester

INSTRUCTOR AND CONTACT INFORMATION
Instructor: Randy Brown
Office: FH 323-J
Phone: 254-519-5462
Email: rwbrown@tamuct.edu

For course related communications, please use Canvas “Inbox”
COBA Department Main Phone Number: (254) 519-5437
COBA Department Main Email: cobainfo@tamuct.edu
COBA Department Main Fax#: (254) 501-5825

Office Hours:

<table>
<thead>
<tr>
<th>Location</th>
<th>Mon</th>
<th>Tues</th>
<th>Wed</th>
<th>Thurs</th>
<th>Fri</th>
</tr>
</thead>
<tbody>
<tr>
<td>FH 323J</td>
<td>By Appointment</td>
<td>1:00 - 4:00 pm, &amp; by appointment</td>
<td>By Appointment</td>
<td>1:00 - 4:00 pm, &amp; by appointment</td>
<td>By Appointment</td>
</tr>
<tr>
<td>Virtual</td>
<td>By Appointment</td>
<td>By Appointment</td>
<td>By Appointment</td>
<td>By Appointment</td>
<td>By Appointment</td>
</tr>
</tbody>
</table>

Student-instructor interaction:
Please send all course related correspondence through Canvas “Inbox”. Please use TAMUCT email only when Canvas is not available (or for non-course related correspondence). I check
email several times a day during the week and at least once during the weekends. I will attempt to respond within 24 hours Mon-Thurs and within 48 hours on Fri through Sun. Please do not hesitate to stop by my office during the scheduled office hours or contact me via phone, Canvas Inbox, or TAMUCT email, if there are any personal problems or challenges that are hindering your regular progress in the course.

**911 Cellular: Emergency Warning System for Texas A&M University-Central Texas**

911Cellular is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in 911Cellular through their myCT email account.

In an effort to enhance personal safety on the Texas A&M University – Central Texas (TAMUCT) campus, the TAMUCT Police Department has introduced Warrior Shield by 911 Cellular. [Warrior Shield](https://www.tamuct.edu/police/911cellular.html) can be downloaded and installed on your mobile device from Google Play or Apple Store.

Connect at [911Cellular](https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management) to change where you receive your alerts or to opt out. By staying enrolled in 911Cellular, university officials can quickly pass on safety-related information, regardless of your location.

**COURSE INFORMATION**

**Course Overview and description:**

This is an accelerated study of structured C++ programming using microcomputers. Course covers syntax, operators, functions, standard input/output, arrays, pointers, and structures in C++.

Prerequisite: CIS 3303 or approval of department head.

**Course Objective:**

To ensure students are competent in a programming language (C++)

**Student Learning Outcomes:**

1. **Student Learning Outcomes**

   A student successfully completing this course should have a firm understanding of the C++ language and programming logic, design, programming, and troubleshooting:

   1.1 Demonstrate a mastery of syntax and features of the C++ Programming Language:
      1.1.1 Variables and constants – declaration, initialization, and assignment;
      1.1.2 Expressions; math, relational and logic operators;
      1.1.3 Interactive input;
      1.1.4 Simple text file operations;
      1.1.5 C++ syntax for program structures – sequence, decision, loop
      1.1.6 Using standard library functions;
      1.1.7 Creating programmer-defined functions
1.1.8 Arrays, Pointers, Strings, Control Structures, Pre-defined Classes.

1.2 Apply principles of program design and logic
   1.2.1 Structured programming use sequence, decision, and loops;
   1.2.2 Functional abstraction;
   1.2.3 Modular design using functions.

1.3 Apply principles of program logic to isolate errors:
   1.3.1 Debuggers included with the Integrated Development Environment
   1.3.2 Setting breakpoints and watch variables
   1.3.3 Using output to report program progress.

Competency Goals Statements (certification or standards):
CIS Program Learning Objective: Graduates should demonstrate an ability to apply general
knowledge and skills related to software application solutions to an organization’s Information
Systems needs.

Required Reading and Textbook(s):
Required Text: *Starting out with C++ Early Objects*
Tony Gaddis, Judy Walters, & Godfrey Mugunda

Required Material: A USB drive with at least 1GB capacity

Note: A student of this institution is not under any obligation to purchase a textbook from a
university-affiliated bookstore. The same textbook may also be available from an independent
retailer, including an online retailer.

COURSE REQUIREMENTS

1. **Reading Assignments:** All assigned chapters will be used as basis for class and/or
   blackboard discussions. Study the assigned readings before each class.

2. **Attendance/Participation Policy:** Class attendance is required. The policy as officially
   stated by the University will be enforced. Students are expected to make arrangements
   with the instructor before missing a series of classes due to job requirements. Students
   are responsible for any material missed during an absence. In all cases, the responsibility
   remains with the students to meet/obtain all course requirements/changes. If you are
   not present the class period your presentation is scheduled, the presentation grade is
   zero. Regular course progress is expected. It is each student’s responsibility to review
   Canvas and the syllabus for the latest information, assignments and examinations.
   NOTE: Attendance will be taken each class period. Attendance will count as 15% (150
Points) of your total grade. NOTE: Canvas Discussion questions will count toward participation.

2. **Homework**: Chapter review questions will be assigned after each chapter. They are comprised of short answers, multiple choices, true/false, algorithm workbench, find the error, and predict the outcome. Each of the chapter reviews will be weighted equally and the average of all chapter review questions make up 15% (150pts) of your final grade.

2. **Chapter Programming Challenges**: Chapter programming challenges will be assigned after completion of each chapter and will be chosen depending on the direction the class takes. The tentative chapter coverage and assignments are listed in the calendar below. All programming challenges must be able to compile and run successfully to receive full credit. Extra points **MAY** be earned if the programs are done in a manner that is above and beyond the contents of the chapter. All challenges for a specific chapter will count as a single assignment. Each of the challenge assignments will be weighted equally and the average will make up 300 points or 30% of your final grade.

All Programs submitted should have (at a minimum) the following:

2.1 Program Header: All programming challenges MUST begin with the following header comments:

```c
/*
   Author Name
   Programming Challenge Id (Chapter # Challenge #)
   Description of the programming challenge
*/
```

Failure to add this header will result in a loss of 5 points on the programming challenge.

2.2 Inline Comments: All programs must contain two or more inline comments to illustrate understanding of code. Failure to have two or more inline comments will result in a loss of 5 points on the programming challenge.

2.3 All programs must be submitted UNCOMPiled – I will compile them. HOWEVER, you should compile and test prior to submission to make sure the programs work!

3. **Examinations**: There will be two exams, a mid-term and a final exam, each worth 200 points (20%). Makeup exams will be given ONLY when arrangements have been made PRIOR to the class meeting.
4. **Late Submissions:** Homework Assignments will be considered late if submitted after the due date/time. A late penalty of 5% per DAY (max of 20% deduction per week) will be applied. That means that NO submissions will be accepted if submitted more than 5 weeks after the due date. In addition, discussions (if any) MUST be completed within the week during which the discussion is assigned (i.e. late discussions will NOT be allowed). Late tests will NOT be accepted!

NOTE: NO work will be accepted after 5/9/2019.

5. **Other Notes about assignments:**

   Most (ALL) assignments will be submitted via Canvas.

   5.1 All assignments are due at the beginning of the next class day after being assigned.

   5.2 If there are multiple parts, submit all parts in a SINGLE zip file. I would suggest you create a folder for each assignment, then you can zip that entire folder at once.

   5.3 Make sure all parts are labelled in a logical manner that makes it easy for me to figure out which part of the assignment is which.

**Grading Criteria Rubric and Conversion**

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
<th>Percent</th>
<th>My Grade</th>
<th>Percentage</th>
<th>Points</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid-Term Exam</td>
<td>200</td>
<td>20%</td>
<td></td>
<td>90.0-100%</td>
<td>900-1000</td>
<td>A</td>
</tr>
<tr>
<td>Final</td>
<td>200</td>
<td>20%</td>
<td></td>
<td>80.0-89.9%</td>
<td>800-899</td>
<td>B</td>
</tr>
<tr>
<td>Challenges</td>
<td>300</td>
<td>30%</td>
<td></td>
<td>70.0-79.9%</td>
<td>700-799</td>
<td>C</td>
</tr>
<tr>
<td>Homework</td>
<td>150</td>
<td>15%</td>
<td></td>
<td>60.0-69.9%</td>
<td>600-699</td>
<td>D</td>
</tr>
<tr>
<td>Participation</td>
<td>150</td>
<td>15%</td>
<td></td>
<td>0-59.9%</td>
<td>0-599</td>
<td>F</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1000</strong></td>
<td><strong>100%</strong></td>
<td></td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

**Posting of Grades**

All student grades will be posted on the Canvas Grade book and students should monitor their grading status through this tool. Grades for weekly assignments, discussions, quizzes and exams should be posted (no guarantees) within 7 days following the due date.

Canvas Grade Book has weighted columns for each of the groups of assignments (Homework, Hands-On, Research Paper, Group Project, Exam, and Participation) as well as a weighted column for the entire course. These columns put 0’s for all incomplete assignments, so they all start at 0% and go up as you submit assignments. So, at any given time, you can see what your grade would be if you did no additional work.

**COURSE OUTLINE AND CALENDAR**

<table>
<thead>
<tr>
<th>Class</th>
<th>Date</th>
<th>Chapter(s)</th>
<th>Assignment(s) Due!</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>15-Jan</td>
<td>Syllabus/Introductions</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Date</td>
<td>Chapter</td>
<td>Event</td>
</tr>
<tr>
<td>---</td>
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<td>-------------</td>
<td>------------------------</td>
</tr>
<tr>
<td>2</td>
<td>17-Jan</td>
<td>Chapter 1</td>
<td>Introduction Discussion</td>
</tr>
<tr>
<td>3</td>
<td>22-Jan</td>
<td>Chapter 2</td>
<td>Chapter 1 Odd End of Chapter Review Questions</td>
</tr>
<tr>
<td>4</td>
<td>24-Jan</td>
<td>Chapter 3</td>
<td>Chapter 2 Review Questions</td>
</tr>
<tr>
<td>5</td>
<td>29-Jan</td>
<td>Chapter 4</td>
<td>Chapter 2 Programming Challenges</td>
</tr>
<tr>
<td>6</td>
<td>31-Jan</td>
<td>Chapter 5</td>
<td>Chapter 3 Review Questions</td>
</tr>
<tr>
<td>7</td>
<td>5-Feb</td>
<td>Chapter 6</td>
<td>Chapter 3 Programming Challenges</td>
</tr>
<tr>
<td>8</td>
<td>7-Feb</td>
<td>Chapter 7</td>
<td>Chapter 4 Review Questions</td>
</tr>
<tr>
<td>9</td>
<td>12-Feb</td>
<td>Chapter 8</td>
<td>Chapter 4 Programming Challenges</td>
</tr>
<tr>
<td>10</td>
<td>14-Feb</td>
<td>Chapter 9</td>
<td>Chapter 5 Review Questions</td>
</tr>
<tr>
<td>11</td>
<td>19-Feb</td>
<td>Chapter 10</td>
<td>Chapter 5 Programming Challenges</td>
</tr>
<tr>
<td>12</td>
<td>21-Feb</td>
<td></td>
<td>Mid-Term Exam</td>
</tr>
<tr>
<td>13</td>
<td>26-Feb</td>
<td></td>
<td>Spring Break</td>
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<tr>
<td>14</td>
<td>28-Feb</td>
<td></td>
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</tr>
<tr>
<td>15</td>
<td>5-Mar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>7-Mar</td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>19-Mar</td>
<td>Chapter 7</td>
<td>Chapter 6 Review Questions</td>
</tr>
<tr>
<td>18</td>
<td>21-Mar</td>
<td>Chapter 8</td>
<td>Chapter 6 Programming Challenges</td>
</tr>
<tr>
<td>19</td>
<td>28-Mar</td>
<td>Chapter 9</td>
<td>Chapter 7 Review Questions</td>
</tr>
<tr>
<td>20</td>
<td>2-Apr</td>
<td>Chapter 10</td>
<td>Chapter 7 Programming Challenges</td>
</tr>
<tr>
<td>21</td>
<td>4-Apr</td>
<td></td>
<td>Chapter 8 Review Questions</td>
</tr>
<tr>
<td>22</td>
<td>9-Apr</td>
<td></td>
<td>Chapter 8 Programming Challenges</td>
</tr>
<tr>
<td>23</td>
<td>11-Apr</td>
<td></td>
<td>Chapter 8 Programming Challenges</td>
</tr>
<tr>
<td>24</td>
<td>16-Apr</td>
<td></td>
<td>Chapter 9 Review Questions</td>
</tr>
<tr>
<td>25</td>
<td>18-Apr</td>
<td></td>
<td>Chapter 9 Programming Challenges</td>
</tr>
<tr>
<td>26</td>
<td>23-Apr</td>
<td></td>
<td>Catch-up Days</td>
</tr>
<tr>
<td>27</td>
<td>25-Apr</td>
<td></td>
<td>Chapter 10 Review Questions</td>
</tr>
<tr>
<td>28</td>
<td>30-Apr</td>
<td></td>
<td>Chapter 10 Programming Challenges</td>
</tr>
<tr>
<td>29</td>
<td>2-May</td>
<td></td>
<td></td>
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<tr>
<td>30</td>
<td>7-May</td>
<td></td>
<td></td>
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<tr>
<td>31</td>
<td>9-May</td>
<td></td>
<td>Final Exam</td>
</tr>
</tbody>
</table>

**Important University Dates:**
Please refer to the online TAMUCT calendar found [here](https://www.tamuct.edu/registrar/academic-calendar-18-19.html#spring2019)
TECHNOLOGY REQUIREMENTS AND SUPPORT

Technology Requirements
This course will use the A&M-Central Texas Instructure Canvas learning management system. Logon to A&M-Central Texas Canvas [https://tamuct.instructure.com/] or access Canvas through the TAMUCT Online link in myCT [https://tamuct.onecampus.com/]. You will log in through our Microsoft portal.

Username: Your MyCT email address. Password: Your MyCT password

Canvas Support
Use the Canvas Help link, located at the bottom of the left-hand menu, for issues with Canvas. You can select “Chat with Canvas Support,” submit a support request through “Report a Problem,” or call the Canvas support line: 1-844-757-0953.
For issues related to course content and requirements, contact your instructor.

Other Technology Support
For log-in problems, students should contact Help Desk Central.
24 hours a day, 7 days a week:
Email: helpdesk@tamu.edu
Phone: (254) 519-5466
Web Chat: [http://hdc.tamu.edu]

Please let the support technician know you are an A&M-Central Texas student.

UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy.
If you discover that you need to drop this class, you must complete a Drop Request Form [https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf].

Professors cannot drop students; this is always the responsibility of the student. The Registrar’s Office will provide a deadline on the Academic Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar’s Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar’s Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

Academic Integrity.
Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a
commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student’s academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student’s work, collusion, and the abuse of resource materials. All academic misconduct concerns will be reported to the university’s Office of Student Conduct. Ignorance of the university’s standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

For more information regarding the Student Conduct process, [https://tamuct.campuslabs.com/engage/organization/tamuct-student-conduct-panel]. If you know of potential honor violations by other students, you may submit a report, [https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=0].

**Academic Accommodations.**

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier-free education. The Office of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university’s programs, services and activities. If you believe you have a disability requiring reasonable accommodations please contact the Office of Access and Inclusion, WH-212; or call (254) 501-5836. Any information you provide is private and confidential and will be treated as such.

For more information please visit our Access & Inclusion web page [https://www.tamuct.edu/student-affairs/access-inclusion.html].

**Important information for Pregnant and/or Parenting Students.**

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from US Department of Education’s Office of Civil Rights, the Dean of Student Affairs’ Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit the Student Affairs web page [https://www.tamuct.edu/student-affairs/index.html]. Students may also contact the institution’s Title IX Coordinator. If you would like to read more about these requirements and guidelines online, please visit the website [http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. A&M-Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Associate Dean in
the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University’s Title IX Coordinator.

**Tutoring.**

Tutoring is available to all A&M-Central Texas students, both on-campus and online. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or have any other question, contact Academic Support Programs at (254) 519-5796, or by emailing Dr. DeEadra Albert-Green at deeadra.albertgreen@tamuct.edu.

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive FREE online tutoring and writing support. This tool provides tutoring in over 40 subject areas. Access Tutor.com through Canvas.

**University Writing Center.**

Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University–Central Texas (TAMUCT) is a free workspace open to all TAMUCT students from 10:00 a.m.-5:00 p.m. Monday thru Thursday with satellite hours in the University Library Monday thru Thursday from 6:00-9:00 p.m. This semester, the UWC is also offering online only hours from 12:00-3:00 p.m. on Saturdays.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students’ ideas and writing, our tutors highlight the ways in which they read and interpret students’ texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!

Students may arrange a one-on-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via WCOnline. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC and/or need any assistance with scheduling.
University Library.
The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 85,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our Library website [http://tamuct.libguides.com/index].

OPTIONAL POLICY STATEMENTS:

A Note about Sexual Violence at A&M-Central Texas
Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively create environments that tell predators we don’t agree with their behaviors and tell survivors we will support them. Your actions matter. Don’t be a bystander; be an agent of change. For additional information on campus policy and resources visit the Title IX webpage [https://www.tamuct.edu/departments/compliance/titleix.php].

INSTRUCTOR POLICIES.
1. Instructor reserves the right to modify the syllabus during the course of the semester for the benefit of the students.
2. Instructor reserves the right to supplement the material presented in the text with
addition material that may benefit the students by either providing additional information or a different point of view.

3. Instructor expects that the students will act in a curious and professional manner in all interactions with other students and the instructor.

4. Instructor reserves the right to modify grading rubrics. Changes to grading rubrics are only made to current and/or future assignments.

5. Any changes made will be announced on Canvas.

Copyright Notice.
Students should assume that all course material is copyrighted by the respective author(s). Reproduction of course material is prohibited without consent by the author and/or course instructor. Violation of copyright is against the law and Texas A&M University-Central Texas’ Code of Academic Honesty. All alleged violations will be reported to the Office of Student Conduct.

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