Online course MGMT 4321 – 115 Production and Operations Management (CRN: 60145)
Summer 2019 – June 3 to July 26
Texas A&M University-Central Texas

COURSE DATES, MODALITY, AND LOCATION
This course runs from June 03, 2019 to July 26, 2019. This course is a 100% online course and uses the A&M-Central Texas Canvas Learning Management System: https://tamuct.instructure.com. Students should use your MyCT account and password (i.e. xx111).

INSTRUCTOR AND CONTACT INFORMATION
Instructor: Vinay Gonela
Office: 318
Phone: 254-519-5757
Email: Preferred email for course – Canvas “Inbox” vinay.gonela@tamuct.edu

Office Hours:
Since, the course is in online mode, all the office hour will be online. The online office hours will be Monday and Wednesday 9:00 AM – 12:00 PM. Students can use Canvas “chat” in the menu for the online office hours. I can also be available through Microsoft office 365 Skype. My skype ID: vinay.gonela@tamu.edu. Students can connect with me to discuss course related questions. In addition, students can send any questions related to the course to my Canvas “Inbox”. I will try to respond to the student's questions within 24 hours. Any other questions, students can contact me through A&M University – Central Texas email: vinay.gonela@tamuct.edu. If the student needs assistance beyond the stated office hours, Student can send me an email through canvas inbox and we can decide a mutually agreed time for office hours. Any deviations in office hours and correspondence due to meetings and conferences will be communicated to students through instructor announcements.

Student-instructor interaction:
As stated in office hours, I will be available to the students in several formats. Any interaction that require detailed discussions will be conducted through: (1) Canvas “chat” (Preferred), and (2) Microsoft office 365 Skype (My Skype ID: vinay.gonela@tamu.edu), and (3) Phone. Students can chat with me during office hours or any other mutually agreed time. In order to talk to me on phone, students are required to schedule an appointment through canvas “Inbox”. Students can also send me any questions related to the course to my Canvas “Inbox”. I will respond to the student's questions within 24 hours. Any other questions, students can contact me through A&M-CT email: vinay.gonela@tamuct.edu.
Warrior Shield:
Emergency Warning System for Texas A&M University-Central Texas
Warrior Shield 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 Warrior Shield through their myCT email account.

Connect to Warrior Shield by 911Cellular [https://portal.publicsafetycloud.net/Account/Login] to change where you receive your alerts or to opt out. By staying enrolled in Warrior Shield, university officials can quickly pass on safety-related information, regardless of your location.

COURSE INFORMATION
Course Overview and description: The primary purpose of this course is to introduce students to the field of production and operations management (POM). In this course, students will study industrial organization, scientific management, planning and control, building locations and layouts, wage rates, corporation relationships, and research. Prerequisite(s): MGMT 3301: Principles of Management, and BUSI 3311: Business Statistics.

Course Learning Objective (CLO): All the course objectives can be achieved by mastering each week weekly objective. At the end of the course, students meet the CLOs by achieving acceptable grade of 444 points (60%) or above for the entire course.
CLO1: Understand the dynamics of operations strategy and be able to develop one for a company.
CLO2: Understand key POM concepts, principles, and practices related both manufacturing and service based businesses.
CLO3: Understand the interrelationship of various function areas and the role of POM for the success of business
CLO4: Develop decision making and analytical skills that are necessary to solve POM problems.
CLO5: Gain knowledge of effective strategic, tactical and operational planning for both manufacturing and service based companies.

Chapter based Student Learning Outcomes (CH_SLO): CH_SLO enable students to master the skills in each chapter. Gaining proficiency in each of the chapters will enable students achieve CLOs. Students gain proficiency by achieving an acceptable grade of 444 points (60%) or above for the entire course.
Chapter 1 (CLO1, CLO2, CLO3): After completing this chapter, students should be able to:
CH_SLO 1.1: Define the terms operations management and supply chain management
CH_SLO 1.2: Identify the similarities and dissimilarities between production and service operations
CH_SLO 1.3: Explain the three functional areas of organizations and describe how they interrelate
CH_SLO 1.4: Summarize the two major aspects of process management
CH_SLO 1.4: Describe the operations function and the nature of the operations manager’s job
CH_SLO 1.5: Explain the key aspects of operations management decision making
CH_SLO 1.7: Briefly describe the historical evolution of operations management
CH_SLO 1.8: Explain the need to manage supply chain

Chapter 2 (CLO1, CLO2, CLO4): After completing this chapter, students should be able to:
CH_SLO 2.1: List several ways that business organizations compete
CH_SLO 2.2: Name several reasons that business organizations fail
CH_SLO 2.3: Define the terms mission and strategy and explain why they are important
CH_SLO 2.4: Discuss and compare organizations strategy and operations strategy and explain
CH_SLO 2.5: why it is important to link the two
CH_SLO 2.6: Describe the term productivity and explain why it is important to organizations
and to countries
CH_SLO 2.7: Describe several factors that affect productivity

Chapter 3 (CLO4, CLO5): After completing this chapter, students should be able to:
CH_SLO 3.1: List features common to all forecasts
CH_SLO 3.2: Explain why forecasts are generally wrong
CH_SLO 3.3: List the elements of a good forecast
CH_SLO 3.4: Outline the steps in the forecasting process
CH_SLO 3.5: Summarize the forecast errors and use summaries to make decisions
CH_SLO 3.6: Describe four qualitative forecasting techniques
CH_SLO 3.7: Prepare a moving average, weighted moving average, exponential smoothing,
linear trend, trend adjusted exponential smoothing forecasts
CH_SLO 3.8: Compute and use seasonal relatives
CH_SLO 3.9: Compute and use regression and correlation coefficient
CH_SLO 3.10: Construct control charts and use them to monitor forecast errors
CH_SLO 3.11: Describe the key factors and trade-offs to consider when choosing a forecasting
technique

Chapter 4/4S (CLO1, CLO2, CLO4, CLO5): After completing this chapter, students should be
able to:
CH_SLO 4.1: Explain the strategic importance of product and process design
CH_SLO 4.2: Describe what product and service design does
CH_SLO 4.3: Name the key questions of product and service design
CH_SLO 4.4: Identify some reasons for design or redesign
CH_SLO 4.4: List some of the main sources of design ideas
CH_SLO 4.5: Discuss the importance of legal, ethical, and sustainability considerations in
product and service designs
CH_SLO 4.6: Explain the purpose and goal of life cycle assessment
CH_SLO 4.7: Explain the phrase 3R’s
CH_SLO 4.8: Briefly describe the key issues in product or service design
CH_SLO 4.9: Discuss several key issues in product or service design
CH_SLO 4.10: List the characteristics of well-designed service systems
CH_SLO 4.11: List some guidelines for successful service design
CH_SLO 4.12: Define Reliability
CH_SLO 4.13: Perform simple reliability computations

Chapter 5(CLO4, CLO5): After completing this chapter, students should be able to:
CH_SLO 5.1: Name the three key questions in capacity planning
CH_SLO 5.2: Explain the importance of capacity planning
CH_SLO 5.3: Describe the ways of defining and measuring capacity
CH_SLO 5.4: Name several determinants of effective capacity
CH_SLO 5.5: Discuss factors to consider when deciding whether to operate in-house or outsource
CH_SLO 5.6: Discuss the major considerations related to developing capacity alternatives
CH_SLO 5.7: Describe the steps that are used to resolve constraint issues
CH_SLO 5.8: Briefly describe approaches that are useful for evaluating capacity alternatives
CH_SLO 5.9: Outline the steps in the decision process
CH_SLO 5.10: Name some causes of poor decisions
CH_SLO 5.11: Describe and use techniques that apply to decision making under uncertainty
CH_SLO 5.12: Describe and use the expected value approach
CH_SLO 5.13: Construct a decision tree and use it to analyze a problem

Chapter 6(CLO1, CLO4, CLO5): After completing this chapter, students should be able to:
CH_SLO 6.1: Explain the strategic importance of process selection and the influence it has on the organization and its supply chain
CH_SLO 6.2: Name the two main factors that influence process selection
CH_SLO 6.3: Compare the four basic processing types
CH_SLO 6.4: Explain the need for management of technology
CH_SLO 6.5: List some for resign of layouts
CH_SLO 6.6: Describe product layouts and their main advantages and disadvantages
CH_SLO 6.7: Solve simple line-balancing problems
CH_SLO 6.8: Develop simple process layouts

Chapter 8(CLO1, CLO4, CLO5): After completing this chapter, students should be able to:
CH_SLO 8.1: Identify some of the main reasons organizations need to make location decisions
CH_SLO 8.2: Explain why location decisions are important
CH_SLO 8.3: Discuss the options that are available for location decisions
CH_SLO 8.4: Discuss key considerations related to global location decisions
CH_SLO 8.5: Outline the decision process for making location decisions
CH_SLO 8.6: Describe some of the key factors that guide service and retail location decisions
CH_SLO 8.7: Use the techniques presented to evaluate location alternatives

Chapter 9/Chapter 10(CLO1, CLO2, CLO3, CLO4, CLO5): After completing this chapter, students should be able to:

CH_SLO 9/10.1: Discuss the philosophies of quality gurus
CH_SLO 9/10.2: Define the term quality as it relates to products and services
CH_SLO 9/10.3: Identify the determinants of quality
CH_SLO 9/10.4: Explain why quality is important and the consequences of poor quality
CH_SLO 9/10.5: Describe and give examples of the costs associated with quality
CH_SLO 9/10.6: Discuss the importance of ethics in managing quality
CH_SLO 9/10.7: Compare the quality awards
CH_SLO 9/10.8: Discuss quality certification and its importance
CH_SLO 9/10.9: Describe TQM
CH_SLO 9/10.10: Give an overview of problem solving
CH_SLO 9/10.11: Give an overview of process improvement
CH_SLO 9/10.12: Describe the six sigma methodology
CH_SLO 9/10.13: Describe and use various quality tools
CH_SLO 9/10.14: Explain the need for quality control
CH_SLO 9/10.15: Discuss the basic issues of inspection
CH_SLO 9/10.16: List and briefly explain the elements of the control process
CH_SLO 9/10.17: Explain how control charts used to monitor a process and the concepts that underlie their use
CH_SLO 9/10.18: Use and interpret control charts
CH_SLO 9/10.19: Assess process capability

Chapter 12(CLO1, CLO2, CLO4, CLO5): After completing this chapter, students should be able to:

CH_SLO 12.1: Describe the conditions under which MRP is most appropriate
CH_SLO 12.2: Describe the inputs, outputs, and nature of MRP processing
CH_SLO 12.3: Explain how requirements in a master production schedule are translated into material requirements for lower-level items
CH_SLO 12.4: Discuss the benefits and requirements of MRP
CH_SLO 12.5: Describe some of the difficulties users have encountered with MRP
CH_SLO 12.6: Describe MRP 2 and its benefits
CH_SLO 12.7: Explain how an MRP system is useful in capacity requirements planning
CH_SLO 12.8: Describe ERP, what it provides, and its hidden cost

Chapter 13(CLO1, CLO4): After completing this chapter, students should be able to:

CH_SLO 13.1: Define the term inventory
CH_SLO 13.2: Describe the different types of inventory
CH_SLO 13.3: Describe the main functions of inventories
CH_SLO 13.4: Discuss the main requirements for effective inventory management
CH_SLO 13.5: Explain periodic and perpetual review systems
CH_SLO 13.6: Describe the costs that are relevant to inventory management
CH_SLO 13.7: Describe A-B-C approach and how it is useful
CH_SLO 13.8: Describe the basic EOQ model and its assumption and solve typical problems
CH_SLO 13.9: Describe the quantity discount model and solve typical problems
CH_SLO 13.10: Describe reorder point models and solve the typical problems

Chapter 14(CLO1, CLO2, CLO3): After completing this chapter, students should be able to:
CH_SLO 14.1: Explain the terms lean operations and JIT
CH_SLO 14.2: Describe the main characteristics of lean systems
CH_SLO 14.3: List the five principles of the way lean systems function
CH_SLO 14.4: List some of the benefits and some of the risks of lean operation
CH_SLO 14.5: Describe the Toyota Production System (TPS).
CH_SLO 14.6: List the three goals of a lean system and explain the importance of each
CH_SLO 14.7: List the eight wastes according to lean philosophy
CH_SLO 14.8: Identify and briefly discuss the four building blocks of a lean production system
CH_SLO 14.9: Describe key lean improvement tools
CH_SLO 14.10: Outline considerations for successful conversion from a traditional system to a lean system
CH_SLO 14.11: Describe some of the obstacles to lean success

Chapter 15(CLO1, CLO2, CLO3, CLO5): After completing this chapter, students should be able to:
CH_SLO 15.1: Explain the terms supply chain and logistics
CH_SLO 15.2: Name the key aspects of supply chain management
CH_SLO 15.3: List, and briefly explain, current trends in supply chain management
CH_SLO 15.4: Outline the benefits and risks related to outsourcing
CH_SLO 15.5: Explain what the main supply chain risks are and what businesses can do to minimize those risks
CH_SLO 15.6: Describe some of the complexities related to global supply chains
CH_SLO 15.7: Briefly describe ethical issues in supply chains and the key steps companies can take to avoid ethical problems
CH_SLO 15.8: Describe the three concerns of small businesses related to the supply chain and suggest ways to manage those concerns
CH_SLO 15.9: List several strategic, tactical and operational responsibilities related to managing the supply chain
CH_SLO 15.10: Discuss procurement in terms of the purchasing interfaces, the purchasing cycle, ethics and centralized versus decentralized decision making
CH_SLO 15.11: Briefly describe the key aspects of supplier management
CH_SLO 15.12: Discuss the logistic aspects of supply chain management including RFID technology
CH_SLO 15.13: Discuss the issues involved in managing returns
CH_SLO 15.14: Describe some of the challenges in creating an effective supply chain and some of the trade-offs involved

Criteria for meeting all course objectives and outcomes: Students meet course requirements for this course by achieving a minimum aggregate score of 444 points (60%) or D and above grade in the entire course.

Required Reading and Textbook(s):

Required Textbook: Operations Management (w/out ConnectPlus)
Author: Stevenson
Edition: 13th
ISBN: 9781259667473

Note 1: A Student of A&M University – Central Texas is not under any obligation to purchase a textbook from a university – affiliated bookstore.

Video lectures: There will be YouTube video lectures that will posted for the problem sets or analytical portion of the textbook. Students are required to watch them in order to be successful in the course. Consequently, students are required to have a browser that will allow them to watch the posted video lectures.

Other required materials: Apart from the required textbook, students should have access to computer with Microsoft Word, PowerPoint, Excel, PDF reader along with proper internet service. Students can obtain a free PDF reader at http://www.adobe.com/products/acrobat/readstep.html. All the materials related to the course will be available in electronic format (lecture slides, video lectures, homework assignments, exams and solutions) in canvas: https://tamuct.instructure.com. Students will also be required to submit the scanned copies or images of the assignments and exams. Therefore, students are required to have scanner and/or camera to take pictures. Students are recommended to have a hand held calculator (should be able to perform square roots and above apart from addition, subtraction, multiplication and division – at a minimum) for calculations. Please feel free to contact me whenever you have difficulty in accessing the material.

COURSE REQUIREMENTS
The assessments in this section will measure the CLOs and CH_SLOs stated in the course information section. In this course, some of the outcomes will be measured several times using Quizzes, Assignments, case studies, and exams.
**Quizzes (CLO1, CLO2, CLO3, CLO4, and CLO5):** There will be 12 quizzes. Each quiz will be worth 10 points adding up to 120 points. Each quiz will consist of 10 multiple choice questions. Each quiz will assess CLOs and CH_SLOs pertaining to the chapter (see course information). However, all the quizzes together will assess all the CLOs.

**Assignments (CLO1, CLO2, CLO3, CLO4, and CLO5):** There will be 12 assignments. Each Assignment is worth 20 points adding up to 240 points. Each assignment will have several discussion and problem solving questions. The rubric for the assignment discussion question and problem solving questions are available in page 17 and page 18 respectively. For Assignments, students must show the work (according to the rubric in grading criteria and rubric and conversion) in order to receive full credit. Points will be awarded based on the correctness and quality of the work. Each assignment will assess CLOs and CH_SLOs pertaining to the chapter (see course information). However, all the assignments together will assess all the CLOs.

**Note 2:** For assignments, Students have to upload the assignment submissions at canvas website: [https://tamuct.instructure.com/](https://tamuct.instructure.com/). Students can handwrite or type the answers. However, make sure to be readable when you handwrite the assignments. If you choose to handwrite, scan or take picture and submit the assignment to canvas submission.

**Case studies (CLO1, CLO4):** There will be two case studies. Each case study is worth 50 points. The case studies consists of both discussion questions and problems. The case studies are required to be submitted in APA format. The rubric in page 17 will be used for discussion questions and the rubric in page 18 will be used for problems. Students must show the work (according to the rubric in grading criteria and rubric and conversion) in order to receive full credit. Points will be awarded based on the correctness and quality of the work. Each case study will assess CLO 1 and CLO 4.

**Exams (CLO1, CLO2, CLO3, CLO4 and CLO5):** There will be a two exams. Each exam is worth 130 points. Each exam consists of two parts: Exam: PT 1 and Exam: PT 2. Exam: PT 1 will consist of multiple choice questions adding up to 30 points. Exam: PT 2 consists of discussion and problem solving questions adding up to 100 points. The rubrics for Exam: PT 2 discussion question and problems are provided in page 17 and page 18 of the syllabus. For Exam: PT 2, students must show the work (according to the rubric in grading criteria and rubric and conversion) in order to receive full credit. Points will be awarded based on the correctness and quality of the work.

**Note 4:** For exams: PT 2 students have to show the work in order to receive full credits. Consequently, students have to upload the assignment submissions at canvas website: [https://tamuct.instructure.com/](https://tamuct.instructure.com/). Students can handwrite or type the answers. However, make sure to be readable when you handwrite the assignments. If you choose to handwrite, scan or take picture and submit the assignment to canvas submission.

**Note 4:** Check the course outline and Calendar section for assessment due dates. All the quizzes, assignments, and case studies will be due on Sunday @ 11:59 PM.

**Late submissions:** The instructor will not accept late submissions under any circumstances.
without appropriate documentation.

**Grading Policy:** Following is the grading policy that will be used for this course:

**Course Evaluation:** Table 1 presents the point scale for each of the activities performed in this class.

<table>
<thead>
<tr>
<th>Activity</th>
<th>Point scale</th>
<th>Percentages</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes (12)</td>
<td>12*10 = 120</td>
<td>16.66%</td>
</tr>
<tr>
<td>Assignments (13)</td>
<td>12*20 = 240</td>
<td>33.33%</td>
</tr>
<tr>
<td>Case studies (2)</td>
<td>50*2 = 100</td>
<td>13.88%</td>
</tr>
<tr>
<td>Exams (2)</td>
<td>2*130 = 260</td>
<td>36.11%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>720</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

**Grade computation:** Below is the grading scale for the course. Students earn the grades by completing the scheduled activities. There will no bonus points. Failure to submit the appropriate activities will result in a failing grade.

Grade Scale:

- **A** = 648 – 720 (90% - 100%)
- **B** = 576 – 647.99 (80% – 89.99%)
- **C** = 504 – 575.99 (70% - 79%)
- **D** = 432 – 503.99 (60% - 69.99%)
- **F** = 431.99 and below (59.99% and below)

**Grading Criteria Rubric and Conversion**

The rubrics for discussion questions and problems are provided in page 17 and page 18 respectively. It should be noted that assignments, case studies and exams will contain discussion questions and problems. Therefore, discussion rubric (Page 17) will be used for discussion questions and problems rubric (Page 18) will be used for problems. Students can request regrade within 1 week of grading.

**Posting of Grades**
All the grades will be posted on canvas. Students can view the grades in the “Grades” tab. The grades will be posted within two weeks of the submission.

**COURSE OUTLINE AND CALENDAR**

**Complete Course Calendar**

<table>
<thead>
<tr>
<th>Week</th>
<th>Reading</th>
<th>Homework</th>
</tr>
</thead>
</table>
| Week 1 06/03 – 06/09  | Syllabus  
Chapter 1  
Chapter 2 | **Quiz 1 & Assignment 1 (Chapter 1) due by**  
06/09@ 11:59 PM  
(CLO1, CLO2, CLO3, CH_SLO 1.1 - CH_SLO 1.8)  
**Quiz 2 and Assignment 2 (Chapter 2) due by**  
06/09@ 11:59 PM  
(CLO1,CLO2, CLO4, CH_SLO 2.1 – CH_SLO 2.6) |
| Week 2  | 06/10 – 06/16 | Chapter 3  
Chapter 4/4S | Quiz 3 and Assignment 3 (Chapter 3) due by  
06/16 @ 11:59 PM  
(CLO4, CLO5, CH_SLO 3.1 - CH_SLO 3.11)  
Quiz 4 and Assignment 4 (Chapter 4) due by  
06/16 @ 11:59 PM  
(CLO1, CLO2, CLO4, CLO5, CH_SLO 4.1 - CH_SLO 4.13) |
|--------|--------------|-----------------|---------------------------------------------|
| Week 3  | 06/17 – 06/23 | Chapter 5  
Chapter 6 | Quiz 5 and Assignment 5 (Chapter 5) due by  
06/23 @ 11:59 PM  
(CLO4, CLO5, CH_SLO 5.1 - CH_SLO 5.13)  
Quiz 6 and Assignment 6 (Chapter 6) due by  
06/23 @ 11:59 PM  
(CLO1, CLO4, CLO5, CH_SLO 6.1 - CH_SLO 6.8) |
| Week 4  | 06/24 – 06/30 | Exam 1: PT 1 & PT 2 due 06/30 @ 11:59 PM  
Chapters 1, 2, 3, 4, 5, and 6  
(CLO1, CLO2, CLO3, CLO4, CLO5, CH_SLO 1.1 – CH_SLO 6.8)  
Case study 1 due by 06/30 @ 11:59 PM  
(CLO1, CLO4) | Quiz 7 and Assignment 7(Chapter 8) due by  
07/07 @ 11:59 PM  
(CLO1, CLO4, CLO5, CH_SLO 8.1 - CH_SLO 8.7)  
Quiz 8 and Assignment 8 (Chapter 9/10) due by  
07/07 @ 11:59 PM |
| Week 5  | 07/01 – 07/07 | Chapter 8  
Chapter 9/Chapter 10 | Quiz 9 and Assignment 9 (Chapter 12) due by  
07/14 @ 11:59 PM  
(CLO1, CLO2, CLO4, CLO5, CH_SLO 12.1 - CH_SLO 12.8)  
Quiz 10 and Assignment 10 (Chapter 13) due by  
07/14 @ 11:59 PM |
| Week 6  | 07/08 – 07/14 | Chapter 12  
Chapter 13 | Quiz 11 and Assignment 11 (Chapter 14) due by  
07/21 @ 11:59 PM  
(CLO1, CLO2, CLO3, CH_SLO 14.1 - CH_SLO 14.10)  
Quiz 12 and Assignment 12 (Chapter 15) due by  
07/21 @ 11:59 PM |
| Week 7  | 07/15 – 07/21 | Chapter 14  
Chapter 15 | |
Important University Dates:

<table>
<thead>
<tr>
<th>Date</th>
<th>Deadline</th>
</tr>
</thead>
<tbody>
<tr>
<td>06/03</td>
<td>Classes Begin for summer semester</td>
</tr>
<tr>
<td>06/10</td>
<td>Deadline to drop 8-week classes with no record</td>
</tr>
<tr>
<td>07/04</td>
<td>Independence day (University closed)</td>
</tr>
<tr>
<td>07/05</td>
<td>Deadline for graduation application for summer ceremony participation</td>
</tr>
<tr>
<td>07/26</td>
<td>Classes end for 8-week session</td>
</tr>
<tr>
<td>07/29</td>
<td>Student end of course survey closes (8-week classes)</td>
</tr>
</tbody>
</table>

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

Students should have access to computer with Microsoft Word, PowerPoint, Excel, PDF reader along with proper internet service and browser (Required). Students can obtain a free PDF reader at http://www.adobe.com/products/acrobat/readstep.html. All the materials related to the course will be available in electronic format (lecture slides, video lectures, homework assignments, exams and solutions) in canvas: https://tamuct.instructure.com. Students will also be required to submit the scanned copies or images of the assignments and exams. Therefore, students are required to have scanner and/or camera to take pictures.

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 Canvas page (log-in required) [https://tamuct.instructure.com/courses/717]

**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 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.-4:00 p.m. Monday thru Thursday with online only hours Monday thru Thursday from 6:00-9:00 p.m.
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].

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**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).

**Behavioral Intervention**

Texas A&M University-Central Texas cares about the safety, health, and well-being of its students, faculty, staff, and community. If you are aware of individuals for whom you have a concern, who are exhibiting behaviors that pose a threat to safety, or individuals causing a significant disruption to our community, please make a referral to the Behavioral Intervention Team. You can complete the [referral online](https://cm.maxient.com/reportingform.php?TAMUCentralTexas&layout_id=2).

Anonymous referrals are accepted. Please see the [Behavioral Intervention Team website](https://www.tamuct.edu/student-affairs/bat.html) for more information. If a person’s behavior poses an imminent threat to you or another, contact 911 or A&M-Central Texas University Police at 254-501-5800.

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**INSTRUCTOR POLICIES**

Following are some of the instructor related policies. Students are required to follow them over the entire course period.

**Class Policy:** Instructor holds the right to change certain policies such as reading schedule, late submissions if the instructor feels it is necessary or beneficial for the class.

**Late submissions:** The instructor will not accept late submissions under any circumstances without appropriate documentation.

**Emergency situation:** It is the responsibility of the student to work with professor for assignment submissions under emergency. The student need to contact the professor as soon as possible, i.e., within 15 days of emergency. The professor will not accept any reasoning for non-submission after 15 days of emergency. If the student fails to complete 50% of the course without notifying the professor, then the instructor will not accept any makeups or resubmissions. In that case, the student needs to either drop the course or receive the overall earned grade.

**Academic Integrity:** If the student violates any academic integrity (that include, but 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), the student will receive the following penalty:

1st Offense: One downgrade and the student has to write a 1500 word paper on academic integrity.
The due date for the submission of the paper will be 3 weeks from the day of realization of violation of academic integrity by the student.

2nd Offense: The student will receive failing grade.

**Note 4: Under both offenses mentioned above, the student will be reported to university’s Office of Student Conduct.**

**Communication policy:** Students are expected to have read the course content at least once before communicating with the professor for doubts. The faculty will not be able to teach the entire course or chapter content during the communications. Faculty can help students with the doubts, but not with the entire topic.

**Netiquette:** Online communication is a very critical component of any online environment, and in this course, you are expected to conduct yourself in the same respectful manner that would be followed in a face-to-face course. Be sure to abide by the following guidelines when participating in the various methods of communication with instructors and classmates:

- Think your response through before responding. Before you submit your comments, proofread your comments to prevent any misunderstandings from occurring.
- Do not capitalize everything. Capital letters may be used for the occasional EMPHASIS, but avoid typing completely in capital letters AS IT MAY APPEAR AS THOUGH YOU'RE SHOUTING!
- Keep conversations clean from foul language. The online course is an environment for positive feedback and productive dialogue. Profanity will not be tolerated.
- Use correct spelling and proper grammar. Keep your responses on topic and concise. Do not write long responses, for it will not likely be read or take up too much of another person's time.
- Do not ramble. You are not the only person behind a keyboard. Be mindful of others' feelings and treat them with the same respect that everyone deserves.
- Communicate respectfully.

In this course, you are also expected to abide by the University's student code of conduct and the policies on classroom. View the University's Student Code of Conduct online (https://www.tamuct.edu/student-affairs/student-conduct.html). Visit the Office of Student Conduct Website here. (https://www.tamuct.edu/student-affairs/student-conduct.html)

**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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### Rubric for discussion questions

*Note: This rubric will be used for discussion questions in Assignments, Case studies, and Exams*

<table>
<thead>
<tr>
<th>Criteria</th>
<th>No work (0%)</th>
<th>Missing work (25%)</th>
<th>Needs improvement (50%)</th>
<th>Met Expectations (75%)</th>
<th>Exceeds expectation (100%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evidence/Content</td>
<td>Work is not submitted</td>
<td>The answer has several errors in both conceptual level (textbook) and communication clarity.</td>
<td>The answer contains one or two basic facts that are correct (textbook), but may also have incorrect statements as well.</td>
<td>The answer contains most (75%) of the points that needed to be included.</td>
<td>The answer contains the main points and provides comprehensive understanding.</td>
</tr>
<tr>
<td>65%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Writing mechanics</td>
<td>Work is not submitted</td>
<td>Writing mechanics are a major issue.</td>
<td>Problems with length, format, grammar, spelling, originality, or citations.</td>
<td>Only minor problems with length, format, grammar or spelling, or citations. No issues with originality</td>
<td>No problems with length, format, grammar or spelling, originality, or citations if needed.</td>
</tr>
<tr>
<td>35%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
# Rubric for problems

*Note: This rubric will be used for problems in Assignment, Case studies, and Exams*

<table>
<thead>
<tr>
<th>Criteria</th>
<th>No work (0%)</th>
<th>Missing work (25%)</th>
<th>Needs improvement (50%)</th>
<th>Met expectations (75%)</th>
<th>Exceeds expectations (100%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication (25%)</td>
<td>- Work is not submitted</td>
<td>- Does not select and use important information from the problem.</td>
<td>- Selects and uses some important information from the problem.</td>
<td>- Selects and uses all important information from the problem.</td>
<td>- Uses appropriate information from the problem</td>
</tr>
<tr>
<td></td>
<td>- Only final answers are presented without proper</td>
<td>- Little work is evident and/or is very confusing.</td>
<td>- Work is partly complete. It may not be very clear or organized.</td>
<td>- Work is complete. Organization is fairly clear.</td>
<td>- Uses words, numbers and pictures to clearly explain thinking. Every step is shown</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Words (labels and sentences), numbers, and/or pictures are not used or do not match the problem.</td>
<td>- Tries to use words (labels and/or sentences), numbers and/or pictures to explain thinking. Some steps may be missing.</td>
<td>- Uses words (labels and sentences), numbers, and pictures to explain thinking. Every step is shown.</td>
<td>- Uses correct math vocabulary and symbols. Shows data correctly using charts, tables, and/or graphs if appropriate.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- Does not use correct math vocabulary and symbols. Charts, tables and/or graphs are not used, even when appropriate</td>
<td>- Uses some correct math vocabulary and symbols. Tries to show using charts, tables, and/or graphs if appropriate.</td>
<td>- Shows correct math vocabulary and symbols. Shows data correctly using charts, tables, and/or graphs if appropriate.</td>
<td>- Uses correct math vocabulary and symbols. Shows data correctly using charts, tables, and/or graphs if appropriate.</td>
</tr>
</tbody>
</table>

| Problem Solving (75%)  | - No work is shown | - Shows little understanding of the problem | - Shows some understanding of the problem | - Shows good understanding of the problem | - Displays thorough understanding of the problem |
|                        |              | - No clear strategy was used | - Tried a strategy | - Used a strategy that worked | - Used the best strategy to solve the problem |
|                        |              | - Work has major errors | - Work is partly correct | - Work is mostly correct. Errors, if any, are minor | - Work is correct |
|                        |              | - Answer does not make sense | - Answer may not make sense or solve the problem | - Answer makes sense and solves the problem | - Steps leading to the answer is correct |
|                        |              |                          |                          |                          | - Appropriate conclusions are made |