COURSE DATES, MODALITY, AND LOCATION

This course is a 100% online course from August 22, 2022 – December 9, 2022. Supplemental materials will be made available online through the A&M-Central Texas Canvas Learning Management System [https://tamuct.instructure.com/].

INSTRUCTOR AND CONTACT INFORMATION

Instructor: Dr. Ankita Singhvi

Email: a.singhvi@tamuct.edu

Office Hours: By appointment on Webex.

Student-Instructor Interaction:

For communication, please email me at a.singhvi@tamuct.edu. Should you write me an email, please mention your name and course title in the Subject line. I will try to get back to you within 24 hours during the week and within 36 hours during the weekend.

Please practice good communication skills. We will practice formal business communication emails so that you will develop good habits. Start out every email and/or discussion post with the name of the person you are addressing and close with your name. Utilize spelling and grammar check to help you write better.

Mode of instruction and course access:

This is an “Online” course and uses the A&M-Central Texas Canvas Learning Management System extensively: [https://tamuct.instructure.com] for audio lectures, supplemental materials (like readings and lecture PowerPoints), quizzes, exams, grade reporting, and assignment submissions. The instructions that follow in this syllabus will assist you with gaining access and technical support. Once you are in Canvas, there is an icon on the left with a question mark surrounded by a circle (says Help when you hover over it) that will have additional Canvas resources if you are unfamiliar with the learning management system itself.

Student-Instructor interaction:

It is easiest to reach me via email, as I check it very frequently to say the least. I will most likely respond to email in no more than 24 hours if not traveling, and usually within a couple of hours.

Emergency Warning System for Texas A&M University-Central Texas

SAFEZONE. SafeZone provides a public safety application that gives you the ability to call for help with the push of a button. It also provides Texas A&M University-Central Texas the ability to communicate emergency information quickly via push notifications, email, and text messages. All students automatically receive email and text messages via their myCT accounts. Downloading SafeZone allows access to push notifications and enables you to connect directly
to help through the app.
You can download SafeZone from the app store and use your myCT credentials to log in. If you
would like more information, you can visit the SafeZone website [www.safezoneapp.com].

To register SafeZone on your phone, please follow these 3 easy steps:
1. Download the SafeZone App from your phone store using the link below:
   o iPhone/iPad: [https://apps.apple.com/app/safezone/id533054756]
   o Android Phone / Tablet [https://play.google.com/store/apps/details?id=com.criticalarc.safezoneapp]
2. Launch the app and enter your myCT email address (e.g. {name}@tamuct.edu)
3. Complete your profile and accept the terms of service

COURSE INFORMATION

Course Overview and Description:

Course Overview:

The goal of this course is to introduce and develop the skills required for an analytics mindset in accounting. Students will be introduced to and learn to apply the concepts of data scrubbing, data preparation, data quality, descriptive data analysis, data manipulation, and data visualization using various data analytic tools to prepare reports and solve problems using statistical data analysis.

Course Description:

The combination of computerization and automation of many accounting tasks as well as the explosion of available data is changing the accounting profession. To address this, accountants are increasingly required to have an analytics mindset to perform their jobs. Building upon the fundamentals of accounting learned in prior courses, Introduction to Data Analytics for Accounting explores accounting concepts through the application of data analytics. We recognize students need to not only develop the skills to ask the right questions, but to learn how to use tools they may encounter in the workplace such as Excel® to examine and analyze data, and then effectively interpret results to make business decisions. This analytics mindset is crucial early in the study of accounting to meet the demands of today’s accounting jobs.

*Introduction to Data Analytics for Accounting* provides a framework for developing a Data Analytics mindset we refer to as the **AMPS model**:

- Ask the Question (Chapter 1).
- Master the Data (Chapters 2–4).
- Perform the Analysis (Chapters 5–9).
- Share the Story (Chapter 10).

This model is used throughout the text in conjunction with the various types of analysis accountants need to perform. The labs follow this framework to reinforce the analytical process. Chapter 11 acts as a capstone, providing two projects applying the complete AMPS model. The first project guides students through analyzing Lending Club loans, while the second offers the framework for students to address their own accounting question.
Course Objective:

- Explain how data analytics affects business and accounting, including the skills an analytic-minded Accountant needs.
- Explain how data are organized in accounting information systems, stored in relational database as well as extracted, transformed and loaded.
- Utilize various data analytics approaches, including data reduction, regression, classification, and clustering.
- Utilize data visualization techniques to communicate results.
- Compare how data analytics is utilized in Management Accounting, Internal Audit, External Audit and Continuous Auditing.
- Apply data analytics in a Management Accounting, Internal Audit, External Audit or Continuous Auditing scenario.
- Evaluate data quality using KPIs.
- Create visualizations of financial statement data.
- Demonstrate the application of data analytics tools used in accounting for decision making.
- Introduce QuickBooks Online.

Textbook(s):


COURSE REQUIREMENTS

Course Requirements:

This course is made up of book chapters that are comprised of assignments, assessments, and labs to assist you in achieving the course and learning objectives/outcomes. Each week you will work on various combinations of assignments, activities, discussions, readings, research, etc., which will be made available to you on your canvas course.

Chapter Presentations:

Every week there will be 2-4 discussion leaders for the chapter we cover in class. These leaders will be assigned a chapter to discuss and present individually via video. These videos typically last 20 minutes (can be longer if needed) covering highlights of the chapter. All presentations must demonstrate one of the chapter exercises that is not already assigned in Connect. This will help us discuss the highlights of the chapter. If you are not presenting, you will watch the video and post your comments and thoughts surrounding that topic/chapter/exercise by the end of the week. Videos for a chapter of discussion must be posted no later than
Tuesday by 5pm CST of the week of assigned chapters. All discussion on it ends by Sunday of the same week. Discussion Leaders will be posted on Canvas.

**QuickBooks Learning:**

You have the opportunity to learn QuickBooks Online, a popular accounting software via Intuit. There is LinkedIn Learning that currently offers a one month trial that may mitigate the cost. The cost of LinkedIn Learning is $39.99/month, 1 month free trial and your access needs will likely be for 1-2 months. The estimated cost for this is $40. Please note that these numbers are estimates and controlled by LinkedIn and are subject to change at their discretion.

More information can be found here:


https://www.linkedin.com/learning/quickbooks-online-essential-training-2021

**Discussions:**

There will be weekly subject matter discussions that you are expected to post on each week. Each post must be detailed, complete and include all details answering all questions posted. All discussion posts will be graded.

**Connect Assignments:**

There will be lab assignments throughout each chapter that will be due as per Connect. The number of lab assignments vary by chapter. You will be able to print them, work them out and then submit them online. The correct answers will be available thru Canvas after the due date and time. You should use these to review/study for the Capstone Exercises. At the end of the semester, I will replace your lowest lab score with the highest lab score. These labs will not be timed and may be taken up to TWO times. I will always take the higher of the two grades if you choose to retake a given lab. I will not replace missing or incomplete labgrades.

There must be NO Submissions via email. You should read the instructions thoroughly before trying to upload.

**Capstone Exercise:**

There will be one Capstone exercise that will be accessed thru Canvas at the end of the semester. This capstone exercise is intended to let the students go through the entire data analysis process, start to finish. The idea is that the students operationalize the AMPS model by asking the question, finding and mastering the data, performing the analysis, and sharing the story. The Capstone will not be timed but may be submitted only ONE time. After the due date, you will be able to access your grade and see suggested solutions for each question. The presentation of your capstone project will be graded for a maximum of 100 points. The written portion will be 200 points. More details on this will be discussed in class.
Grading Criteria Rubric and Conversion:

Students earn their course grades by completing scheduled assignments. There are no extra credit assignments for this course. To satisfactorily pass this course, students must complete each of the graded items listed below. Failure to submit appropriate documents for scoring in each category will result in a failing grade.

<table>
<thead>
<tr>
<th>Course Element</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>Chapter Presentations</td>
<td>100</td>
</tr>
<tr>
<td>QuickBooks Learning</td>
<td>100</td>
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<tr>
<td>Discussions</td>
<td>100</td>
</tr>
<tr>
<td>Capstone Exercise and Presentation</td>
<td>300</td>
</tr>
<tr>
<td>Connect Assignments</td>
<td>500</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>1100</strong></td>
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Grade Percentage | Letter Grade
--- | ---
90.0 – 100 % | A
80.0 – 89.9 % | B
70.0 – 79.9 % | C
60.0 – 69.9 % | D
50.0 – 49.9 % | F

Posting of Grades:

Grades will be posted on the Canvas Grade book where students can monitor their status.

COURSE OUTLINE AND CALENDAR

Complete Course Calendar:

The following schedule is tentative. If changes are necessary, they will be announced on Canvas. It is your responsibility to learn of any changes announced by your instructor.
<table>
<thead>
<tr>
<th>Date</th>
<th>Chapter</th>
<th>Assignments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Week – 1 (Aug 22-28)</td>
<td></td>
<td>Introduction</td>
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<tr>
<td>Week – 2 (Aug 29- Sep 4)</td>
<td>Chapter 1</td>
<td>Using Data Analytics to Ask and Answer Accounting Questions</td>
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<tr>
<td>Week – 3 (Sep 5-11)</td>
<td>Chapter 2</td>
<td>Mastering the Data: An Introduction to Accounting Data</td>
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<tr>
<td>Week – 4 (Sep 12-18)</td>
<td>Chapter 3</td>
<td>Accounting Data: Data Types and How They are Used</td>
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<tr>
<td>Week – 5 (Sep 19-25)</td>
<td>Chapter 4</td>
<td>Master the Data: Preparing Data for Analysis</td>
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<tr>
<td>Week – 6 (Sep 26- Oct 2)</td>
<td>Chapter 5</td>
<td>Perform the Analysis: Types of Data Analytics</td>
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<tr>
<td>Week – 7 (Oct 3- 9)</td>
<td>Chapter 5</td>
<td>Perform the Analysis: Types of Data Analytics</td>
</tr>
<tr>
<td>Week – 8 (Oct 10-16)</td>
<td>Chapter 6</td>
<td>Perform the Analysis: Descriptive Analytics</td>
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<tr>
<td>Week – 9 (Oct 17-23)</td>
<td>Chapter 7</td>
<td>Perform the Analytics: Diagnostic Analytics</td>
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<td>Week – 10 (Oct 24-30)</td>
<td>Chapter 8</td>
<td>Perform the Analytics: Predictive Analytics</td>
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<tr>
<td>Week – 11 (Oct 31-Nov 6)</td>
<td>Chapter 9</td>
<td>Perform the Analytics: Prescriptive Analytics</td>
</tr>
<tr>
<td>Week – 12 (Nov 7-13)</td>
<td>Chapter 9</td>
<td>Perform the Analytics: Prescriptive Analytics</td>
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<tr>
<td>Week – 13</td>
<td>Chapter 10</td>
<td>Share the Story</td>
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<tr>
<td>Period</td>
<td>Chapter</td>
<td>Topic</td>
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<td>-----------------------------------------------------------------------</td>
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<tr>
<td>(Nov 14-20)</td>
<td></td>
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<tr>
<td>Week – 14</td>
<td>Chapter 11</td>
<td>Using the AMPS Model to put it all Together: Capstone Projects</td>
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<tr>
<td>(Nov 21-27)</td>
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<td>Thanksgiving 24-25</td>
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<tr>
<td>Week – 15</td>
<td>Chapter 11</td>
<td>Using the AMPS Model to put it all Together: Capstone Projects</td>
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<tr>
<td>Nov 28-Dec 4)</td>
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<tr>
<td>Week – 16</td>
<td>Capstone wrap up</td>
<td>Presentations</td>
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<tr>
<td>(Dec 5-9)</td>
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</table>

**Important University Dates:**

[https://www.tamuct.edu/registrar/academic-calendar.html](https://www.tamuct.edu/registrar/academic-calendar.html)

**TECHNOLOGY REQUIREMENTS AND SUPPORT**

**Technology Requirements**

This course will use the A&M-Central Texas Instructure Canvas learning management system. **We strongly recommend the latest versions of Chrome or Firefox browsers. Canvas no longer supports any version of Internet Explorer.**

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](mailto:helpdesk@tamu.edu)
Phone: (254) 519-5466
Web Chat: [http://hdc.tamu.edu](http://hdc.tamu.edu)

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

**UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES**

**General University Resources**
Please select the following link: University Resources, URL: https://www.tamuct.edu/University%20Resources.html

COBA Learner Access and Success: This web site has been specially designed to provide “one stop shopping” for the University and College resources that College of Business Administration students are likely to need throughout the semester. This includes setting up an appointment with an advisor, tutoring, career and professional development, among other services and many helpful videos. Check it out and bookmark it, it will be very useful: COBA Learner Access and Success (https://www.tamuct.edu/coba/coba-learners.html)

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. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. All academic misconduct concerns will be referred to the Office of Student Conduct. 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://www.tamuct.edu/student-affairs/student-conduct.html].

If you know of potential honor violations by other students, you may submit a referral, [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 Student Affairs [https://www.tamuct.edu/student-affairs/pregnant-and-parenting-students.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 virtually and in-person. Student success coaching is available online upon request.

If you have a question, are interested in becoming a tutor, or in need of success coaching contact the Warrior Center for Student Success, Equity and Inclusion at (254) 501-5836, visit the Warrior Center at 212 Warrior Hall, or by emailing WarriorCenter@tamuct.edu.

To schedule tutoring sessions and view tutor availability, please visit Tutor Matching Services [https://tutormatchingservice.com/TAMUCT] or visit the Tutoring Center in 111 Warrior Hall.

Chat live with a remote 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 online tutoring support at no additional cost. This tool provides tutoring in over 40 subject areas except writing support. Access Tutor.com through Canvas.

**University Library & Archives**

The University Library & Archives provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 400,000 eBooks and 82,000 journals, in addition to the 96,000 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 virtually through WebEx, Microsoft Teams or in-person at the library. Schedule an appointment here [https://tamuct.libcal.com/appointments/?g=6956]. 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]

**University Writing Center**

University Writing Center: Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University–Central Texas (A&M–Central Texas) is a free service open to all A&M–Central Texas students. The hours of operation are from 10:00 a.m.-5:00 p.m. Monday thru Thursday in Warrior Hall 416 (with online tutoring available every hour as well) with satellite hours available online only Monday thru Thursday from 6:00-9:00 p.m. and Saturday 12:00-3:00 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-to-one session with a trained and experienced writing tutor by making an appointment via WCOnline [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu if you have any questions about the UWC, need any assistance with scheduling, or would like to schedule a recurring appointment with your favorite tutor.

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 Wellness and 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/compliance/titleix.html].

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, please make a referral to the Behavioral Intervention Team. Referring your concern shows you care. 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 for more information [https://www.tamuct.edu/bit]. 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.