



**SCOTTSDALE  
COMMUNITY COLLEGE**

A MARICOPA COMMUNITY COLLEGE

## Course Information

- Semester and Year: Summer 2026
- Course Title: Quantitative Methods in Business
- Course Prefix and Number: GBS 220
- Section Number: 10838
- Credit Hours: 3
- Start Date: Tuesday, May 26, 2026
- End Date: Thursday, June 25, 2026
- Class Format: Online

## Instructor Information

- Instructor: Steven Force
- Email: [steven.force@scottsdalecc.edu](mailto:steven.force@scottsdalecc.edu)
- Office Location: BUS-125
- Office Hours: By appointment.

## Course Description

Business applications of quantitative optimization methods in operations management decisions.

## Prerequisites and/or Corequisites

A grade of C or better in MAT 150 or MAT 151 or MAT 152, or satisfactory District math placement.

## Course Competencies

1. Identify business applications and problem situations where quantitative methods and modeling are useful for decision making.
2. Model, solve, and interpret linear programming problems using computer software.

3. Solve basic business problems using discrete and continuous probability distributions.
4. Model, solve, and interpret Program Evaluation and Review Technique (PERT) and Critical Path Method (CPM) type problems.
5. Develop total cost and Economic Order Quantity (EOQ) models for specific inventory systems.
6. Model, solve, and interpret a decision problem involving uncertainty, using decision theory techniques.

## Texts and Course Materials

### Internet & Email Access

I will be utilizing Canvas during the course and I will send messages and announcements via Canvas. You are expected to check Canvas frequently. You can also have Canvas send notifications to your student email account, so you know when I send messages and announcements.

### Digital Textbook & Tools (REQUIRED)

**Title:** Quantitative Methods PAC

**Author:** Anderson

**Price:** \$115.25

**ISBN:** 9780357423738

*(This is an access code that gets you access to our eTextbook and the homework platform, Cengage WebAssign.)*

### Software

Microsoft Excel is **required** for this course. Maricopa provides a free MS Office Suite including Excel to students if you do not already have Excel on your home computer. You can reach out to the Scottsdale Community College Tech Center for assistance in adding Excel.

If you already have Excel, please ensure that you have the proper version. If you are able to add the free “Solver” add-in tool, you have the correct version.

## Course Policies

The following are policies specific to this course. Students are also responsible for the college policies included on the [Student Regulations](#) page of the Maricopa Community College District website.

### Late Policy

If you submit an assignment after its deadline, a 10% late penalty will be assessed.

### Homework

Each chapter will have a homework assignment through Cengage. These homework assignments are automatically graded.

### Exams

We will have 3 section-based exams. Once you begin the exam, you must complete the exam at that time. You will have 90 minutes to finish each exam. The exams will be completed all within Excel, with the finished Excel file then uploaded to Canvas.

- **Makeup Exams:** You must let me know **before** the exam's due date to make arrangements for a makeup exam. If you do not contact me before the exam's due date, you may not be allowed to take the test.

### Exam Due Dates:

- Exam 1 (Ch. 1-3): Thursday, June 4 (Available in Canvas June 1-4)
- Exam 2 (Ch. 4, 14 & 13): Sunday, June 14 (Available in Canvas June 10-14)
- Exam 3 (Ch. 7-10): Thursday, June 25 (Available in Canvas June 22-25)

## Attendance Policy

Attendance and participation are required for this course. Since this is a fully-online course, an absence is defined as missing an assignment's due date. **If you have 4 or more absences throughout the semester, you may be withdrawn from the course.**

## Instructional Contact Hours and Minimum Course Expectations

This is an accelerated 5-week, three credit-hour course. You should expect a fairly intensive workload each week. Planning regular time for coursework will be important to success. And remember, I am here to help when you have questions! Don't struggle in silence!

### Expectations of you and your work

- I do not expect you to understand everything at the start of the class. However, I can't read your mind. **When you have a question, please let me know.** This can be via email, setting up an appointment, etc. My job is to help you!
- **I expect you to try.** I know some of you may get nervous at the sight or thought of numbers. Let me help you in overcoming that struggle.
- **I expect you do your own work.** I understand the pull of AI to get work done. However, using AI to complete all of your work will only hurt you moving forward and could lead to issues in this course. Do your own work, and trust me, you'll be happy you did in the end.
- **I expect critical thinking.** This is the big one! Sometimes, the numbers and math in this class are secondary. Instead, I want you to focus on what your answers mean and understand where this could be helpful in your lives and future careers.

## Course Technologies

View the [Accessibility Statements & Privacy Policies](#) of the technologies used in this course. The [SCC Help Desk](#) provides students with a primary point of contact within SCC for college-supported technology services and technical assistance.

### Maricopa Systems

This course uses key Maricopa systems for course management and communication.

- Canvas Learning Management System
- Student Maricopa Gmail Account

### Streaming Media/Audio/Video Tools

- YouTube

## Generative Artificial Intelligence (AI) Policy

The World Economic Forum defines generative AI as “a category of artificial intelligence (AI) algorithms that generate new outputs based on the data they have been trained on. Unlike traditional AI systems that are designed to recognize patterns and make predictions, generative AI creates new content in the form of images, text, audio, and more.”

Some examples of generative AI tools include but are not limited to: ChatGPT, Google Gemini, Microsoft Copilot, Stable Diffusion, GrammarlyGo, and Adobe Firefly.

### No Generative Artificial Intelligence (AI) Allowed

In this class, all work submitted must be your own. The use of generative AI tools will be considered academic misconduct (see Administrative Regulation 2.3.11 1.B(b)) and will be treated as such. If you are unsure if the tool or website you are using is a generative AI tool, please contact the instructor for further clarification before using the tool or website.

## Grading Standards and Practices

### Grade Scale

Letter Grade	Points Range
A	90 – 100%
B	80 – 89%
C	70 – 79%
D	60 – 69%
F	0 – 59%

### Assignments

Assignment Name	Percent of Grade
Chapter Homework	35%
Exams	65%
<b>TOTAL:</b>	100%

## Student/Instructor Interaction

In this course, you can expect regular and substantive interaction (RSI) that aligns with Scottsdale Community College's mission to provide challenging and supportive learning experiences and the US Department of Education's requirement for regular and substantive interaction (RSI) for online courses. My commitment to your success includes the following:

- Providing individual feedback regularly on assignments.
- Promptly responding to student questions about the course sent via email or the Canvas inbox.
- Regularly posting announcements about the course content and activities.
- Monitor your academic progress and communicate concerns, as needed.

## Response Time

Students can expect a response time of **1-2 business days** for the instructor to respond to messages sent via Canvas or email. Students can expect assignments to be graded within one week of the assignment's due date.

## Tutoring

SCC's tutors are available online to help with your courses. You may work with an SCC tutor remotely using Google Meet, your phone, or email. Visit the [Tutoring & Learning Centers](#) page for detailed information on the five learning centers' hours and procedures.

If you need to work with a tutor outside regular hours, online and hybrid students now have access to a 24/7 online tutoring service called Brainfuse. To access Brainfuse and begin working with a tutor, visit the [SCC Online Tutoring Services Through Brainfuse](#) page.

## MCCCD Policies

MCCCD is committed to providing a safe, fair, and accessible environment for all students. This includes laws such as the ADA and Title IX, which protect against discrimination. These statements explain your rights, available support, and where to go for help or more information. Please review the following policies:

[Classroom Accommodations for Students with Disabilities](#)

[Addressing Incidents of Title IX Sexual Harassment](#)

Students are responsible for the information contained in this syllabus, the Syllabus page in your Canvas course and the **College Policies & Student Services** page found in the First Steps module of your Canvas course. Students will be notified by the instructor of any changes in course requirements or policies.

## Course Schedule

*Subject to change.*

DATE	DUE AT 11:59PM
TUES 5/26	Syllabus Quiz, Introductions, Getting Started (WebAssign)
THURS 5/28	Ch. 1 Homework
SUN 5/31	Ch. 2 Homework
TUES 6/2	Ch. 3 Homework
THURS 6/4	<b>Exam 1 (Ch. 1-3):</b> <i>Available in Canvas 6/1-6/4</i>
SUN 6/7	Ch. 4 Homework
TUES 6/9	Ch. 14 Homework
THURS 6/11	Ch. 13 Homework
SUN 6/14	<b>Exam 2 (Ch. 4, 14 &amp; 13):</b> <i>Available in Canvas 6/10-6/14</i>
TUES 6/16	Ch. 7 Homework

<b>THURS 6/18</b>	Ch. 8 Homework
<b>SUN 6/21</b>	Ch. 9 Homework
<b>TUES 6/23</b>	Ch. 10 Homework
<b>THURS 6/25</b>	<b>Exam 3 (Ch. 7-10):</b> <b><i>Available in Canvas 6/22-6/25</i></b>