

MGT 6772 – Management of Technology

Fall 2026

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Class Times: This class is 100% asynchronous (no live sessions)
Office Hours: Mon/Wed 8:00 – 9:30 or 10:45 – 12:30, or By Appointment

Course Text: *Strategic Management of Technological Innovation*, 6th Edition, by Shilling, 2020: McGraw-Hill, New York, NY. (Not Required)

Prerequisite: MGT 6501: Operations Management

Course Format:

This course will be delivered in an online format via recorded lectures uploaded to Canvas. No in-person classes will take place. The instructor will publish a Canvas Announcement each Sunday at 8:00am. It is vital students read the announcement to stay up to date with the course schedule and understand what assessments are due that week.

Course Description:

Students learn how innovations in science and technology drive a firm's long-term competitive advantage. Students learn how to manage the strategic and operational challenges associated with uncertainty in the context of technology change, global competition, and dynamic markets. Specific topics include how to develop (innovate), design (plan), measure (assess), and improve (change) a firm's resource capabilities (technology, workforce, materials, information, processes, knowledge) in both manufacturing and service industries. The course integrates topics in operations, information technology, marketing, organizational behavior and strategy. We analyze business cases in manufacturing and services settings. We read articles from managerial practice and leading research journals.

Course Objectives:

- Able to describe how managing technology is vital to an organization
- Build both quantitative and qualitative analysis skills, especially those needed for managing with uncertainty
- Provide real world case studies, which can be used to help learners evaluate various problems that arise in practice
- Enable students to understand why the principals discussed are important to a business and how they are to be implemented using best practice techniques.

Grading Policy:

Grading for the course will be based on the following weights:

Quizzes/Assignments/Sim:	20%
(1) Case Study Lesson Plan:	20%
Exams:	25% (12.5% each)
Current Event Post:	10%
Final Exam:	25%

If you have an issue or a concern with your grade in an exam, quiz or assignment, please provide a detailed, written request for re-grade within a week of receiving your grade. I will reserve the right to re-grade the entire exam or assignment (and not only the specific question you are contesting).

Grade distribution is as follows: A – 90 to 100. B – 80 to 89. C – 70 to 79. D – 60 – 69. F – 59 & below.

Quizzes:

Short quizzes will be given through Canvas and should take no longer than 5-7 minutes to complete. Topics will be lecture materials, documentaries, and case studies. The quizzes are designed to be a low stakes learning opportunity for you to gauge your progress. They will open at the beginning of the week and are due by Saturday evening. Take them after you watch the required weekly topics shown in the schedule. Makeup quizzes will not be given.

Assignment Exercises:

Short assignments will be given throughout the course. Topics and types of assignments will vary. They will open at the beginning of the week and are due by Saturday evening. Makeup assignments will not be given.

Exam Policies:

Exams will be given this semester to test the student's knowledge. Topics covered on the exam will be lectures and lessons learned from the case studies, documentaries and simulations. Makeup exams will not be given. Students missing a scheduled exam due to an official Georgia Institute of Technology event must prearrange an alternate time to take the exam. All other cases will receive a grade of zero for the missed exam. Lockdown browser or Honorlock may be required in order to take the exam. Make sure it is installed and works properly before starting the exam (we will take a practice quiz early in the semester to test). Per Georgia Tech's policy, any cheating will result in, at minimum, a penalty of twice the potential advantage from cheating. All cases of alleged cheating will be referred to the Dean of Student Affairs for disciplinary action. I strongly encourage all students to visit the website of the Office of Student Integrity at <http://www.osi.gatech.edu/index.php/>.

Case Lesson Plan

There are a total of five case studies used in this course. Your assignment will be to choose one case and develop a lesson plan of how you would teach the class the key points of the case, particularly as they relate to class topics. This will be a group assignment. This is your chance to play the role of professor and design a class that would be engaging and full of great content. Be as creative as you would like, however your lesson plan must contain at least:

- ~3 key challenges the firm is facing, why are they facing them, and what solutions would you recommend
- In-class activity
- Relate to other firms or current events

- Develop a 5 question MC quiz

Deliverable is a detailed plan of how you would teach a 60 min class. Keep in mind, you will not actually be teaching a class, just designing the lesson plan.

Note: Each student is required to read all the cases as they are fair game for assessments.

Current Event Post

Each student is required to submit one current event discussion post before the end of the semester. The post will relate a current event to a topic we have discussed in class. In Canvas Discussion, the student will attach the article, link, etc. of the current event, then write a description of how the current event relates to a topic using the following as a guide:

- Demonstrate a thorough understanding of the topic and current event
- Provide insightful analysis (in other words, use your own thoughts)
- What questions came to mind after reading the current event?
- Was it a successful application of Mgt of Technology? Why or why not? Do you have any recommendations on what could have been done differently?

Simulation Games

You will play one strategy simulation game (Startup Game) as a group. Make sure you take notes of your strategic actions throughout the game. You'll be graded based on your overall performance, as well as the quality of the strategic actions you take and what you learned about those actions (even if the action resulted in negative performance). Teams without a strategy (e.g., do nothing) will obtain zero points. Write-ups shall be ~300-400 words (hit the key points!) and turned in Canvas via the text box in the simulation assignment. This will be a group assignment.

Documentaries:

Who says we can't learn something from watching TV! To supplement the lectures, there are (6) documentaries students must watch this semester available on various streaming platforms. You will need to be able to access them over the course of the semester. If you have trouble accessing any of the documentaries, let me know and I may be able to get access through the GT library.

Late Policy

Students missing an assessment due to an official Georgia Institute of Technology event must prearrange an alternative time to submit the assessment. All other cases will follow the following policy:

Quizzes: There are no makeup's available for missed quizzes.

Current Event Post: There is no makeup available for missing the current event discussion post.

Assignment Exercises: Students can submit assignment exercises late, with the following penalty applied to their grade. 0 to 6 hrs late → Max grade of 95%. 6 hrs to 24 hrs late → Max grade of 90%. 24 hrs to 48 hrs late → Max grade of 80%. After 48 hours, no late submissions will be accepted.

Exams: Students must contact the professor before the exam starts to be eligible for the late submission policy. The professor may allow a make-up exam, if the time frame does not give the student an unfair advantage of additional study time. Alternatively, the missed exam score will be replaced by the student's final exam score. If a student fails to notify the professor prior to the exam, the student will receive a grade of zero for the missed exam.

Academic Integrity

Georgia Tech aims to cultivate a community based on trust, academic integrity, and honor. Students are expected to act according to the highest ethical standards. Review [Georgia Tech's Honor Code](#) and the student [Code of Conduct](#).

Last Updated: April 10, 2026

Any student suspected of cheating or plagiarism on a quiz, exam, or assignment will be reported to the Office of Student Integrity, who will investigate the incident and identify the appropriate penalty for violations.

Official Communications:

Both Canvas and the class email distribution list are used to post information on class changes, upcoming assignments, grades, etc. Communications will be sent to the Georgia Tech student email that is assigned to you by the Institute. It is your responsibility to have the Georgia Tech email account active and to receive and regularly read messages written to that address.

Accommodations for Disabilities:

If you are a student with learning needs that require special accommodation, [contact the Office of Disability Services](#) (404-894-2563) as soon as possible to make an appointment to discuss your special needs and to obtain an accommodations letter. Please also e-mail me as soon as possible in order to set up a time to discuss your learning needs.

Student-Faculty Expectations Agreement:

At Georgia Tech, we believe that it is important to strive for an atmosphere of mutual respect, acknowledgement, and responsibility between faculty members and the student body. [The Student-Faculty Expectations](#) articulate some basic expectations that you can have of me and that I have of you. In the end, simple respect for knowledge, hard work, and cordial interactions will help build the environment we seek. Therefore, I encourage you to remain committed to the ideals of Georgia Tech while in this class.