

GEORGIA INSTITUTE OF TECHNOLOGY
George W. Woodruff School of Mechanical Engineering
ME 2110 - Creative Decisions and Design
Summer 2017

Lecture: M & W, 9:30-10:45 AM, Boggs B5
Studio: Various Times, MRDC 2405
Lecturers: Dr. Cassandra Telenko, cassandra.telenko@me.gatech.edu
Office Hours M 3:30-4:30 PM, MRDC 4111, or by appointment
Dr. Jeffrey Donnell, MRDC 3104, Jeffrey.Donnell@me.gatech.edu

Studio Instructors:

Dr. Levent Degertekin, levent.degertekin@me.gatech.edu (Sec B, R 14:01-16:59; Sec C, R 09:01-11:59)
Dr. Amit Jariwala, amit.jariwala@gatech.edu, (Sec E, T 08:45-11:45)
Prof. Kristi Mehaffey, kristi.mehaffey@me.gatech.edu (Sec D, W 11:01 - 13:59)
Dr. Richard Simmons, richard.simmons@me.gatech.edu (Sec A, W 14:01 - 16:59)
Dr. Ifeanyi Ume, charles.ume@me.gatech.edu (Sec F, T 14:01 - 16:59)

Teaching Assistants:

C.J. Adams (Section D)
Arnoldo Castro (Section A)
Yash Chitalia (Section B)
Inseung Kang (Section C)
Daniel Moreno (Section F)
Vanessa Wei (Section E)

All course material will be posted on the web site: <http://2110.me.gatech.edu/>

Course Objectives:

To learn the fundamental procedures for solving engineering design problems; the essential details of analyzing, synthesizing, and implementing design solutions with flexibility, adaptability, and creativity; the techniques which allow an engineer to tackle new, unsolved, open-ended problems. To learn by doing through team and individual projects and assignments.

Course Requirements (100%):

1)	In-Lecture Work	10%
2)	Homework	15%
3)	Class Participation	5%
4)	Introductory Project	15%
5)	Major Project	55%
	Planning Report and Presentation	(5%)
	Evaluation Report and Presentation	(5%)
	Machine Performance	(15%)
	Design Review / Presentation to Judges	(5%)
	Final Oral Presentation	(10%)
	Final Report	(15%)
6)	Give at least one oral presentation	P/F
7)	Electronics, machining, and pneumatics training	P/F

- | | | |
|----|---------------------------------|-----|
| 8) | Individual competition | P/F |
| 9) | Web-based knowledge assessments | P/F |

Note: Receiving an F for a P/F item will result in 1 letter grade reduction in your final grade for every F received.

All assignments must be labeled with your name, section instructor, section TA, and section time. When doing group work, all names must be on the assignment and each group member will receive the same grade. All assignments are due at the beginning of class. Late work is NOT accepted. Your class participation grade will be determined by the instructor's view of your participation in group activities and by peer reviews.

Text: W. Singhose, J. Donnell, [Introductory Mechanical Design Tools](http://www.lulu.com/content/3365814),
www.lulu.com/content/3365814

Attendance Policy

You will be working on teams to complete the projects for this course. Therefore, you are required to attend **all studio sessions**.

Furthermore, 10% of your grade comes from in-studio quizzes that cannot be made up. These quizzes will be based on the lecture material.

Finally, you must participate in all competition events (individual, team, preliminary, qualifying and final contests). Failure to participate in any of these events will result in the automatic reduction of your final grade by one level per event missed.

NOTE: This class CANNOT be dropped.