ME 308 Vibrations
[ONLINE ONLY]
CRN: 15806
Spring 2021
Prof. Yeow Siow
Live class: MWF 12pm - 12:50pm

Essential Learning Resources, Hardware, Software & Platforms:
1. Class homepage: https://me308-siow.class.uic.edu
2. Zoom
3. Gradescope
4. Piazza
5. Matlab (or other languages)
6. Google Docs/Sheets/Slides
7. Internet (wired best), computer, camera/web cam, microphone
8. Book: Shabana, "Theory of Vibration: An Introduction," 2nd ed., Springer-Verlag. ISBN-13: 978-1-4612-3976-5
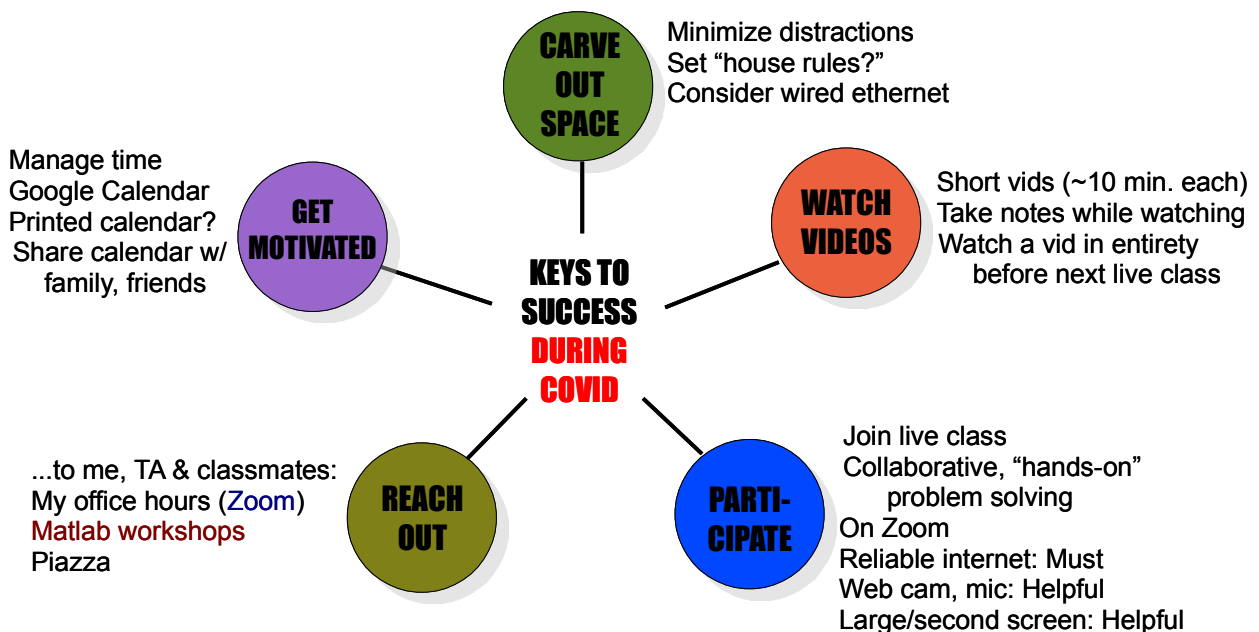
Prerequisites: CS 109 (or similar), ME 210, MATH 220
Course Description: Learn how to analyze anything that vibrates.
Course Objectives: 1. Review and reinforce your understanding of dynamics (Newton's 2^d law), FBD, and 1st-order ODE, 2. Understand basic theories that govern vibrations, and 3. Be able to apply these theories in real-world situations

I will do my best to impart knowledge and provide guidance along the way, and ultimately it is up to you how much you want to accomplish.

For this rather strange and unprecedented COVID era of higher education, I have devised the following "5 Keys to Success" in this class for you:

Vibrations

CARVE OUT SPACE
Minimize distractions
Set "house rules?"
Consider wired ethernet

GET MOTIVATED
Manage time
Google Calendar
Printed calendar?
Share calendar w/ family, friends

WATCH VIDEOS
Short vids (~10 min. each)
Take notes while watching
Watch a vid in entirety before next live class

KEYS TO SUCCESS DURING COVID

REACH OUT
...to me, TA & classmates:
My office hours (Zoom)
Matlab workshops
Piazza

PARTI-CIPATE
Join live class
Collaborative, "hands-on" problem solving
On Zoom
Reliable internet: Must
Web cam, mic: Helpful
Large/second screen: Helpful

Grading

12-level "fluency scale":

Level	Fluency Points "FP" Earned (Cumulative)	Internal Grade	UIC Grade
12	≥ 140	A+	A
11	130 - 139	A	
10	120 - 129	B++	A or B
9	110 - 119	B+	
8	100 - 109	B	B
7	90 - 99	C++	B or C
6	80 - 89	C+	
5	70 - 79	C	C
4	60 - 69	D++	C or D
3	50 - 59	D+	
2	45 - 49	D	D
1	< 45	F	F

Depending on your "online presence" measured by how active you are on Piazza

FPs (Fluency Points) can be earned by demonstrating *fluency* in the following five categories of tasks. None of the tasks are mandatory. Instead, it's up to you to pick and choose, mix and match, and take on any number of tasks as you wish! The fluency scale above is designed to give you flexibility, and the ability to customize your learning according to how much you want to achieve (or what final grade you aim for).

The task categories are:

- Video lecture notes = 1 FP each (34 max)
- Nano quizzes = 1 FP each (7 max)
- Syllabus quiz = 1 FP
- Projects = FP varies
- Others = FP varies

Most tasks (projects, nano quizzes, video notes, etc.) will be released, collected (uploaded by you), and graded on Gradescope.

"Half-Life" Late Submissions

All tasks have a due date. See class homepage's "Calendar Central" for a detailed schedule. Projects are due on Fridays, nano quizzes Mondays, video notes just before start time of the next live class on MWF. Unless accommodated, all work submitted past the due date cutoff will be subject to a reduction in FP based on the half-life formula: $FP_A = FP_O \cdot \left(\frac{1}{2}\right)^t$, where FP_A is the actual FP awarded, FP_O the original FP, and t the elapsed time past the due date cutoff, measured in days. Any lateness, down to the seconds, will be rounded *up* to the next number of days (e.g., 4 minutes late = 1 day; 29 hours late = 2 days; etc.).

Calendar & Schedule

See class homepage: https://me308-siow.class.uic.edu

Due Date Accommodation

Accommodation can be given only if prior permissions are granted or if it's due to an emergency.

Important Dates

Last day to drop a class w/o "W":   Jan 22, 2021 (Friday)
Last day to drop a class w/ "W":   Mar 19, 2021 (Friday)

Integrity Policy

To ensure fairness and equity among all students, plagiarism is not tolerated. And it is a violation of UIC academic integrity policy: http://dos.uic.edu/community-standards/academic-integrity/

Disability Accommodation

We are very accommodating. Contact the Disability Resource Center (DRC), 312-413-2183, and visit: http://drc.uic.edu/accommodations/academic-accommodations/

Emergency Preparedness

Download UIC SAFE app. UIC Police: 312-355-5555 (or 5-5555 on any campus phone).

COVID-19 Safety Protocols and Policies at UIC

Face Masks: Masks must be worn at all times by all students, faculty, and staff while on campus, whether in or out of class, in all offices, on all pathways, and inside and outside of all buildings, in accordance with [University policies](#). If you do not wear a mask, you will be asked to leave the classroom and will not be allowed back in class unless or until you wear a mask. Eating and drinking is not allowed in classrooms.

Social Distancing: We all must maintain appropriate social distancing at all times, whether in or out of class, in all offices, on all pathways, and inside and outside of all buildings. On-campus classes are being held in classrooms that are large enough to maintain a minimum physical distance of 6 feet (or two arm's length) between people; we will implement assigned seating to ensure social distancing is observed and also to make contact tracing easier if there is an incident of COVID-19 infection in our class.

Hand Washing/Sanitizing: Everyone is expected to wash or sanitize their hands before class, either by using personal sanitizer or by using one of the sanitizer dispensers located on campus. Please remember to wash your hands with soap for 20 seconds or more. If using hand sanitizer, please remember it should be at least 60% alcohol and you should rub your hands together until dry.

COVID-19 Infection Procedures, Testing and Tracing:

UIC has built an infrastructure for COVID-19 testing and tracing of UIC community members. Please refer to the UIC website, [Coronavirus Disease 2019 (COVID-19) | UIC Today](#), and the Circle Back to Campus Plan [website](#) and [newsletter](#) for up-to-date campus policies and procedures. For information about what to do: [UIC FAQs](#)

Students who think they have been exposed to COVID-19 or who have tested positive should inform Student Health Services at 312-996-2901, as soon as possible, so that the University can take action in accordance with [University policies](#). Please do not hesitate to share a positive diagnosis; your identity will NOT be revealed to your classmates. UIC's utmost concern is for the students' welfare and trying to ensure that everyone can take the needed precautions to reduce the likelihood of additional infection. Arrangements will be made with students on an individual basis to accommodate missed classes or assignments due to illness.

Online Course Communication Guidelines (Netiquette)

• Be mindful of different cultural and linguistic backgrounds, as well as different political ideologies and religious beliefs.

• Use good judgment when composing your written responses. Swearing and profanity should be avoided. Also consider that slang terms can be misunderstood or misinterpreted.

• Be careful using all capital letters when composing your written responses. This can be considered "shouting" on the Internet and is regarded as impolite or aggressive. It can also be stressful on the eye when trying to read your message.

• Be respectful of others' views and opinions.

• Be careful when using acronyms. If you use an acronym it is best to spell out its meaning first, then put the acronym in parentheses afterward, for example: Frequently Asked Questions (FAQs). After that you can use the acronym freely throughout your message.

• Use good grammar and spelling in written communications.

• In emails, always identify yourself and what class and section you are in. It is a good practice to put your course and section in the subject line. This helps your instructor identify course related emails.

Privacy Notification and Policy for Video Recording of Synchronous Class Sessions

We will be recording the class sessions, or portions of the class, for students who are unable to attend synchronously. The recording feature for others is disabled so that no one else will be able to record this session through Zoom, Blackboard Collaborate, Webex, or Echo360. Recording by other means is not permitted. The recorded class sessions will be posted on our Blackboard class website unless otherwise notified.

If you have privacy concerns and do not wish to appear in the recording, *turn off* your video and notify me in writing (via email) prior to the next class session. If you prefer to use a pseudonym instead of your name, please let me know what name you will be using, so that I can identify you during the class session. If you would like to ask a question, you may do so privately through the chat feature by addressing your question to me or your TA only (and not to "everyone"), or you may contact me or your TA by another private method, which we will agree upon in advance of class. If you have questions or concerns about this video recording policy, please contact me before the end of the first week of class.