

Essential Learning Resources, Hardware, Software & Platforms:

1. Class homepage: <https://me308-siow.class.uic.edu>
2. Zoom
3. Gradescope
4. Piazza
5. Matlab (or similar languages)
6. Google Docs/Sheets/Slides
7. Laptop/tablet to bring to classroom, computer & stable internet at home
8. Book: Shabana, "Theory of Vibration: An Introduction," 2nd ed., Springer-Verlag. ISBN-13: 978-1-4612-3976-5

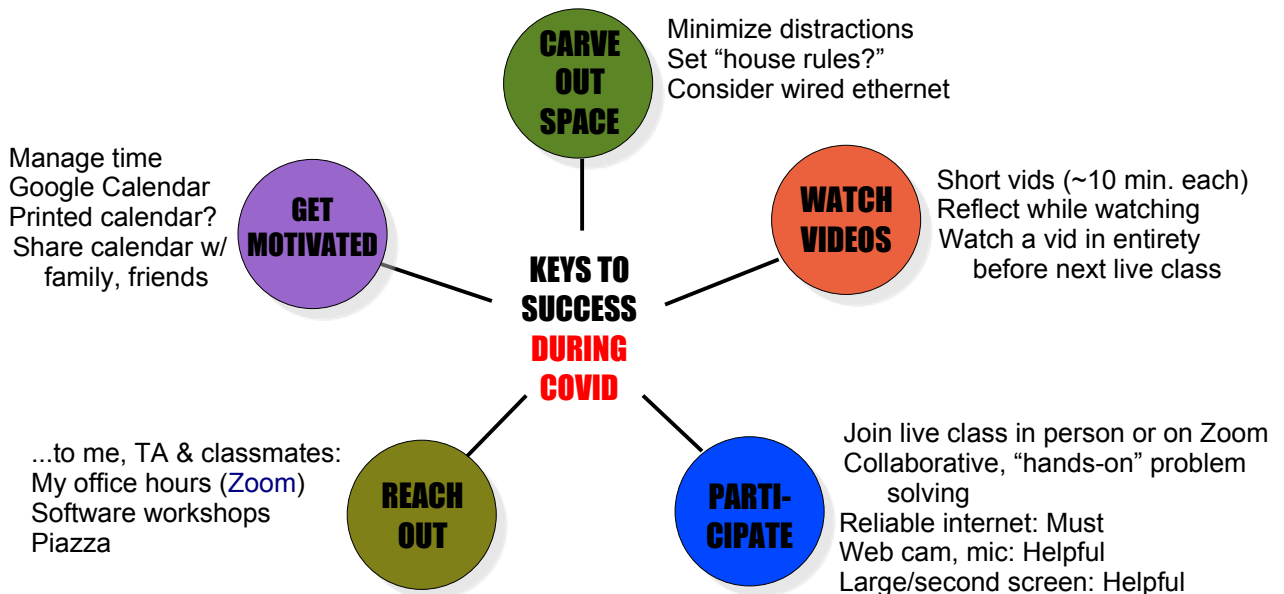
Prerequisites: CS 109 (or similar), ME 210, MATH 220

Course Description: Learn how to analyze anything that vibrates.

Course Objectives: 1. Review and reinforce your understanding of dynamics (Newton's 2nd 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:



Grading

8-level “fluency scale”:

Fluency Points “FP” Earned (Cumulative)	Internal Grade	UIC Grade
≥ 86	A	A
83 - 85	AB	A or B
80 - 82	B	B
77 - 79	BC	B or C
74 - 76	C	C
71 - 73	CD	C or D
68 - 70	D	D
≤ 67	F	F

Depending on your “overall contribution” on Piazza and during class, measured by how active you are and how much you add value to the whole class throughout the term

FPs (Fluency Points) can be earned by demonstrating *fluency* in the following 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 Reflection (VLR) = 1 FP each (34 max)
- In-Class Practice (ICP) = 1 FP each (34 max)
- Projects = 6 FPs each (5 projects planned, so 30 max)

All tasks will be released, submitted (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. Unless accommodated, all work submitted past the original 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., 3 hours 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 21, 2022 (Friday)
Last day to drop a class w/ "W":	Mar 18, 2022 (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).

Guidance for Fall 2021/Spring 2022

For Students

This guidance applies to all undergraduate, graduate and professional students. Please be aware that students in the Health Sciences Colleges or those who work at UI Health may have additional requirements.

Vaccination Requirements, Saliva Testing and Daily Healthcheck

Students who plan to come to campus, or are engaging in academic and clinical activities or field placements off-campus, are required to be vaccinated.

To be on campus, students who have received vaccine exemptions or have received one vaccine dose and are scheduled for their second dose must do daily UIC Healthcheck and saliva test two times per week.

- [Healthcheck App](#)
 - [Locations for testing](#)
 - Students should plan their saliva testing carefully and get it done at the beginning of their day before they go to classes.
 - Students should request a receipt at the testing site in the event they are asked to demonstrate that they have tested that day.
- Please do NOT COME TO CAMPUS if you have COVID-19 symptoms. See the Healthcheck app for a list of these symptoms.

Classes

Students are expected to attend on-campus and hybrid courses IN PERSON* if they

- Have received a COVID-19 vaccination (full vaccination series complete)
- Have received a vaccine exemption and are saliva testing two times per week and completing their daily Healthcheck
- Are partially vaccinated and are saliva testing two times per week and completing their daily Healthcheck.

All students are expected to WEAR A MASK that is tight-fitting and covers both the mouth and nose when inside any building at UIC including classrooms, regardless of vaccination status. Students may remove their masks when alone in a private office or personal residence hall room, or if they have a medical condition, disability or other reason that prevents them from safely wearing a face mask. Students who cannot come to campus should immediately check with their instructors to determine whether:

- There are required in-person course components and/or examinations.
 - Their class will be live-streamed and/or video recorded.
 - There are other mechanisms to obtain course content.
- And, using this information, students will need to decide whether it's feasible for them to take that particular course in the Fall semester or consult with an advisor to determine the best possible route by which to continue their intended program of study.

* If social distancing rules are reinstated at any point during the semester, these guidelines will be modified.

Students on campus who need to log into synchronous online courses.

All synchronous online courses have been assigned a classroom where students who are on campus can go to log into their online course. These courses will still be taught online, but you will be able to use the designated classroom to join the online course. Be ready to use your headphones so you do not disturb others.

Students who cannot come to campus to complete course requirements but have in-person examinations.

These students are subject to testing in the UIC saliva testing program and completion of the UIC Healthcheck. Saliva testing must be completed at UIC not earlier than 48 hours and not more than 72 hours ahead of the exam date, so that the test result is available (and negative) by the date of the examination. For example, if you have an in-person exam at 3:00 p.m. on Thursday, you must complete your saliva testing no later than 3:00 p.m. on Tuesday but no earlier than 3:00 p.m. on Monday. Students must be prepared to present their UIC Daily Pass at the examination site. Note that the Saliva Testing Badge AND the Healthcheck Badge must be “green” to sit for the examination. A process for validation of the UIC Daily Pass prior to in-person exams is under development.

What happens if students do not follow these guidelines?

- Students who are not wearing a mask will be asked to get a mask before returning to class. If the student refuses, then they will be asked by the instructor to immediately leave class and will be reported to the Dean of Students using the [COVID-19 Non-Compliance Report](#).
- If a student refuses to wear a mask and refuses to leave the classroom this is considered student misconduct and will be reported to the Dean of Students using the [Student Misconduct Incident Report Form](#).
- Students on campus who are unvaccinated (without vaccine exemption) OR who are in groups required to saliva test and do the daily Healthcheck and are not complying with these requirements will be reported to the Dean of Students via the campus monitoring system.
- In these cases, the Dean of Students will proceed as described in the [Student Disciplinary Policy](#).

Questions?

If you have additional questions about the campus response to COVID-19 and the Fall 2021 semester, please visit the [Frequently Asked Questions webpage](#).