

MSE 455/556 Course Syllabus

F. Safe and Effective Education During a Pandemic:

F.1. Public Health Guidelines

The faculty and staff of the University of Tennessee are committed to offering a safe environment for effective education during the COVID-19 pandemic. The success of this endeavor requires that all members of the UTK community contribute to creating and maintaining a safe environment. The most important points are summarized below.

- **Fill out the Daily Self Screening before your first class of the day.** Either use the phone app or the website <https://selfscreen.utk.edu/>.
- **Stay informed.** Visit the website <https://www.utk.edu/coronavirus/guides/data-monitoring-and-contingency-options>. Avoid compromised locations.
- **You are required to wear a mask at all times in class.** This session of FYS 129 is offered in a face-to-face mode.
- **Do not come to class if you are sick.** Absence due to illness of any kind is an excused absence.
- **Disinfect your seating area when you arrive.** Wipes will be provided in the classroom. You are asked to sit in the same seat every class period, for purposes of contact tracing.
- **Wait to Enter the Classroom until all the students in the previous class have left.**

F.2. Course Delivery

This course has a significant participation and discussion component, which is best experienced in an interactive and real-time environment. Therefore:

- This course is offered in face-to-face mode.
- This course is not offered remotely.
- The lectures will not be recorded.
- Students who are unable to attend due to covid-related issues, including quarantine can attend remotely in a synchronous mode. Let the instructor know beforehand to launch the zoom session.

A. Course Details

MSE 455/556 Materials for Energy

Meeting Place: Room 405, Tickle Hall

Meeting Time: Monday, Wednesday & Friday at 8:00-8:50 AM

Instructor: Prof. David Keffer, Room 301 Ferris Hall, dkeffer@utk.edu

Teaching Assistant: Candice Kinsler-Fedon, ckinsle1@vols.utk.edu

Required Textbook:

- Materials and Sustainable Development, Michael F. Ashby, Butterworth-Heinemann Publishing, Waltham, MA, (2016), ISBN: 978-0-08-100176-9

Online Reference:

- Sustainable Energy – without the hot air, David J.C. MacKay, UIT Cambridge Publishing, Cambridge, UK, (2009), ISBN: 978-0-9544529-3-3, free full-text online access: <https://www.withouthotair.com/>

Course Website:

<http://utkstair.org/clausius/docs/mse455/index.html>

B. Course Objectives:

The objectives of this course are provided in a separate document located at

<http://utkstair.org/clausius/docs/mse455/pdf/objectives.pdf>

C. Grading Policy

C.1. Grade Breakdown

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| ● Sustainability Journal (12 assignments @ 1.5% each): | 18% |
| ● In-Class Participation: | 02% |
| ● Impact of Climate Change Project Report: | 15% |
| ● National Sustainability Plan Project Report: | 15% |
| ● Materials for Sustainability Project Report: | 15% |
| ● Case Study Team Project: | |
| ○ Team Written Report | 15% |
| ○ Team Oral Presentation | 15% |
| ○ Team Participation (evaluated by teammates) | 05% |
| ● Total: | 100% |

C.2. Course Grades

Course grades will be assigned on the following basis:

90.0 - 100.0	A
85.0 - 89.99	B+
80.0 - 84.99	B
75.0 - 79.99	C+
70.0 - 74.99	C
60.0 - 69.99	D
00.0 - 59.99	F

This course grade basis may (at the instructor's discretion) be shifted uniformly down, should the overall performance of the class require it. This course grade basis will not be shifted up. (That is, if an exam proves to be too hard and the average is low, an 89% may make an A. However, if an exam proves to be too easy and the average is high, a 90% will always make an A.)

C.3. Journal Entries & Projects

- All assignments are due at the beginning of class.
- Late assignments are not accepted.
- Students can work together on assignments. However, each student must turn in his/her own work in his/her own handwriting or print-outs.
- Instances of plagiarism will be dealt with as stipulated by University guidelines as defined in the Student Handbook, Hill Topics, <https://hilltopics.utk.edu/>. Please do not force me to have to deal with plagiarism. Remember, you are here to learn.

C.4. Exams

- There are no exams in this course. Instead of three exams and a final, this course has three project and a case study.

D. Getting Help

Although lectures and text are the primary means of instruction in this course, the instructor is here to help you successfully complete this course. When you do not understand something in class or have difficulty with an exam or homework, you are encouraged to seek out the instructor. Extra-effort will be made to meet with students who regularly attend lecture.

D.1. Email

The best way to contact the instructor and teaching assistant is via email.

- Questions regarding course content and grading should be sent via email to the instructor and/or teaching assistant.

- To guarantee that the email is read promptly, make the subject of the email “MSE 455” Emails with the subject “Help Me!” or similar subjects are identified as spam and deleted without being opened.

D.2. Office Hours

- The teaching assistant will hold virtual office hours at a regular time determined during the first week of class.

E. Course Schedule:

The schedule for this course is provided in a separate document located at

<http://utkstair.org/clausius/docs/mse455/pdf/schedule.pdf>