

Spring 2022

CHE 101-102: Introduction to Chemical Engineering

Lisa Axe

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CHE 101- INTRODUCTION TO CHEMICAL ENGINEERING SPRING 2022

Room: KUPF 117 after January 30th

Thursday 6:00-7:00 PM

Professor and Chair Lisa Axe

150 Tiernan Hall

Phone: (973) 596-2477

axe@njit.edu

Office Hours: by appointment

Class Meeting link for January 2022: Hosted by Lisa Axe

<https://njit.webex.com/njit/j.php?MTID=mce522574b7c4018553e0be8edf66bc25>

Thursday, Jan 20, 2022 6:00 pm | 1 hour | (UTC-05:00) Eastern Time (US & Canada)

Occurs every Thursday effective 1/20/2022 through 1/27/2022 from 6:00 PM to 7:00 PM, (UTC-05:00) Eastern Time (US & Canada)

Meeting number: 2623 610 0398

Password: TEtrgWCY678

Join by video system

Dial 26236100398@njit.webex.com

You can also dial 173.243.2.68 and enter your meeting number.

Join by phone

1-650-479-3207 Call-in toll number (US/Canada)

Access code: 262 361 00398

Course Description:

An introduction to the field of chemical engineering and to the Otto H. York Department of Chemical and Materials Engineering. Topics include the curriculum, student professional societies (AIChE Student Chapter), undergraduate research opportunities, cooperative education, and learning more about being a chemical engineer. Also included are visits by alumni who discuss their careers after graduation from the department.

Course Goals:

- Introduce faculty and careers in chemical engineering
- Learn about experiential opportunities
- Gain familiarity with departmental policies
- Conduct an analysis on an ethical/professional issue based on concepts of ethics and professionalism
- Create an academic plan and resume
- Attend the Career Fair and AIChE Student Chapter Meetings

Attendance to Earn a **Satisfactory** Grade:

This is a freshman-level course, and by university policy attendance is required and will be taken. If you miss any class, you will not meet the attendance requirement and you will earn an **Unsatisfactory** in the course. Grading is **S/U** and is based on attendance and completing all required assignments. If you cannot attend class due to a medical or emergency condition, you will need to obtain an accommodation from the Dean of Students. Otherwise, you will not have an excused absence. To earn a satisfactory grade in this course you must attend all classes at 6:00 pm (no later) until 7:00 pm each class period and you must complete all assignments, which must be submitted on the due date.

Required Assignments to Earn a **Satisfactory** Grade:

- Attend four AIChE Student Chapter Meetings signed off by the AIChE Chapter E-Board by April 28, 2022
- Complete your resume with Career Development Services (CDS) and have it signed off by a company you meet during the Career Fair
- Submit your typed up Academic Plan that shows the courses (i.e., course number, title, and credits) you will take each semester beginning with your first semester at NJIT and needs to include at least one experiential learning experience due March 10th
- Submit and present to the class how you will impact a National Academy of Engineering (NAE) Grand Challenge in your career due April 21st

Tentative Schedule:

1	January 20	Introduction Chair and Professor Lisa Axe – Meet your Advisor Dr. Gordana Obuskovic	http://www.engineeringchallenges.org How will you impact an NAE Grand Challenge in your career? Required Submission: 1-page double space write up due April 21st
2	January 27	Meet the AIChE Student Chapter Executive Board and the Student Chapter Advisor and Associate Professor Roman Voronov	
3	February 3	CDS Preparing Your Resume: Ms. Casey Hennessey	Develop Resume for the Career Fair with CDS. Attend Career Fair with a company signing off on your resume
4	February 10	Faculty: Assistant Professor Kerri-lee Chintersingh	
5	February 17	Co-op Presentations	Co-op presentations and panel
6	February 24	Diversity, Equity, and Inclusion Workshop	
7	March 3	Faculty: Assistant Professor Joshua Young	
8	March 10	Faculty: Assistant Professor Meng-Qiang Zhao	Submit your Academic Plan with at least one experiential learning experience
9	March 17	Spring Break	
10	March 24	Faculty: Professor Ecevit Bilgili, Associate Chair for Undergraduate Study	
11	March 31	Co-op Presentations	Co-op presentations and panel
12	April 7	Faculty: Assistant Professor Murat Guvendiren	
13	April 14	Faculty: Professor David Venerus, Director of the Materials Program	
14	April 21	Present your essay to the class (1 minute per student)	http://www.engineeringchallenges.org How will you impact an NAE Grand Challenge in your career? Required Submission: 1-page double space write up due April 21st
15	April 28	Feedback	Submit your sign off for attending four AIChE Student Chapter Meetings

AIChE Code of Ethics

Board approved November 2015

The Board of Directors of the American Institute of Chemical Engineers adopted this Code of Ethics to which it expects that the professional conduct of its members shall conform, and to which every applicant attests by signing his or her membership application. Members of the American Institute of Chemical Engineers shall uphold and advance the integrity, honor and dignity of the engineering profession by: being honest and impartial and serving with fidelity their employers, their clients, and the public; striving to increase the competence and prestige of the engineering profession; and using their knowledge and skill for the enhancement of human welfare. To achieve these goals, members shall:

1. Hold paramount the safety, health and welfare of the public and protect the environment in performance of their professional duties.
2. Formally advise their employers or clients (and consider further disclosure, if warranted) if they perceive that a consequence of their duties will adversely affect the present or future health or safety of their colleagues or the public.
3. Accept responsibility for their actions, seek and heed critical review of their work and offer objective criticism of the work of others.
4. Issue statements or present information only in an objective and truthful manner.
5. Act in professional matters for each employer or client as faithful agents or trustees, avoiding conflicts of interest and never breaching confidentiality.
6. Treat all colleagues and co-workers fairly and respectfully, recognizing their unique contributions and capabilities by fostering an environment of equity, diversity and inclusion.
7. Perform professional services only in areas of their competence.
8. Build their professional reputations on the merits of their services.
9. Continue their professional development throughout their careers, and provide opportunities for the professional development of those under their supervision.
10. Never tolerate harassment.
11. Conduct themselves in a fair, honorable and respectful manner.

[Read AIChE's Sexual Harassment Policy](#)

AIChE Diversity Statement

Board approved November 2015: AIChE is committed to creating an environment in the Institute and profession in which all members, regardless of characteristics such as gender, race, religion, age, physical condition, sexual orientation, nationality or ethnicity, are valued and respected.

Department Cell Phone Policy: The use of cell phones is prohibited during exams. The use of cell phones, laptops and other electronic devices is prohibited during class time unless their use for educational activities has been explicitly approved and announced by the instructor. Exceptions include documented medical conditions that require the use of a device; please see the instructor.