

This syllabus serves the following courses:

1. **ENU 4930** – Societal Aspects of Nuclear Technology, Class 18219, Section #4930
2. **ENU 6937** – Societal Aspects of Nuclear Technology, Class #18720, Section # GRAD

Same class session for both:

MWF 0930-1045 (UF Summer Period 2)

CSE E220

1 Instructor

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Instructional Assistant Professor

116 Rhines Hall

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Office Hours: TBD. If you would like to meet on Zoom, please send me a message on Teams.

2 Course Description

Explores the interactions between society and nuclear technology by covering its historical development, its governance, and its roles in energy and medicine; also examines the societal impact of nuclear accidents and future nuclear technology innovations

3 Statement Related to Policy for Co-Listed Graduate/Undergraduate Courses

- Graduate students will have additional requirements on periodic assignments.
- Graduate students will be required to present a lecture on a pre-approved topic related to societal aspects of nuclear technology and will be assessed based on a jointly developed rubric.
- Graduate students will be assessed on more demanding performance criteria on the project deliverables.

4 Course Prerequisites

None

5 Textbook

Atomic Awakening: A New Look at the History and Future of Nuclear Power

James Mahaffey

2010, 1st ed.

ISBN: 978-1-60598-127-7

6 Required Computer

UF student computing requirement:

<https://news.it.ufl.edu/education/student-computing-requirements-for-uf/>

7 Course Schedule

Date	Day	Due	Material	Reading
May 12	M		Introduction and Syllabus Overview	
May 14	W		Wicked Problems	
May 16	F		Overview of Nuclear Technology	
May 19	M	A1	Nuclear Power and Climate Change	
May 21	W		Nuclear Power and Climate Change	
May 23	F	Q1	Book Discussion	Intro and P1/C1
May 26	M		No Class (UF Holiday)	
May 28	W		Innovation in Nuclear	
May 30	F	Q2	Book Discussion	P1/C2-3
Jun 2	M	A2	Nuclear Startups	
Jun 4	W		Technology Transfer	
Jun 6	F	Q3	Book Discussion	P1/C4-5
Jun 9	M		No Class (Reactor Sharing)	
Jun 11	W		No Class (Reactor Sharing)	
Jun 13	F	Q4	Book Discussion	P2/C1-2
Jun 16	M	A3	Nuclear Economics	
Jun 18	W		Nuclear Economics	
Jun 20	F	Q5	Book Discussion	P2/C3
Jun 23-27			No Class (Summer Break)	
Jun 30	M		Graduate Lectures	
Jul 2	W		Graduate Lectures	
Jul 4	F		No Class (UF Holiday)	
Jul 7	M	Project	Nuclear Weapons	
Jul 9	W		Nuclear Weapons	
Jul 11	F	Q6	Book Discussion	P2/C4-5
Jul 14	M	A4	Nuclear Incidents	
Jul 16	W		Nuclear Incidents	
Jul 18	F	Q7	Book Discussion	P3/C1-2
Jul 21	M		Siting Nuclear Facilities	
Jul 23	W		Nuclear Waste	
Jul 25	F	Q8	Book Discussion	P3/C3-4
Jul 28	M	A5	Nuclear Policies and Regulations	
Jul 30	W		Nuclear Policies and Regulations	
Aug 1	F	Q9	Book Discussion	P3/C5 and Epilogue
Aug 4	M		International Organizations and Treaties	
Aug 6	W		International Organizations and Treaties	
Aug 8	F	Q10 & Project	Last Class	

8 Grading

Assessments in this course are worth a total of 1000 points.

ENU 4930:

- Periodic Assignments (A) – 500 points (5 @ 100 points each)
- Book Reading Quizzes (Q) – 100 points (10 @ 10 points each)
- Op-Ed – 100 points
- Feedback on Graduate Student Lectures – 100 points
- Mid-Point Project Deliverable – 100 points
- Final Project Deliverable – 100 point

ENU 6937:

- Periodic Assignments – 500 points (5 @ 100 points each)
- Book Reading Quizzes (Q) – 100 points (10 @ 10 points each)
- Op-Ed – 100 points
- Graduate Student Lecture – 100 points
- Mid-Point Project Deliverable – 100 points
- Final Project Deliverable – 200 point

Final grades will be assigned using the following scale:

- A: 870+ points (87%+)
- A-: 850-869 points (85-86.99%)
- B+: 830-849 points (83-84.99%)
- B: 750-829 points (75-82.99%)
- C: 660-749 points (66-74.99%)
- E: < 660 points (< 66%)

Please note the following:

1. No single item exceeds 20% of your final grade.
2. Grading in this course is plus-based. You are awarded points at each correct step, rather than deducting points for errors. Note that points are awarded for correct steps, and getting the correct final answer. That is, an error at an intermediate step will prevent you from earning points for that step and for the final answer.
3. The grade cut-offs for A, B, and C are lower than some typical scales (90, 80, 70, etc.) under which many UF courses operate. The intention is not to inflate grades, but rather to account for the challenging nature of the course.
4. The gradebook on Canvas is not official. I reserve the right to correct errors, including transcription errors, from the official (spreadsheet) gradebook, until finalization of grades with the UF registrar.

More information on UF grading policy may be found at:

ENU 4930: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

ENU 6937: <https://gradcatalog.ufl.edu/graduate/regulations/>

<https://catalog.ufl.edu/UGRD/academic-regulations/grades-grading-policies/>

8.1 Grade Appeals

All appeals of grades, including those from clerical/grade-calculation errors, must be made within 1 week of the grade/assignment being returned to you.

Grade appeals must be provided in the following format:

- Email me a written summary of which problem(s) or part(s) you believe were graded inaccurately. Be as specific as possible.
- I will review your grade appeal, contact you via your ufl.edu email address, and adjust any grades if merited in Canvas and the official gradebook.

9 Course Policies

9.1 Attendance

Attendance is strongly recommended starting on the first day of class. However, attendance is not part of grade calculations.

Pursuant to HWCOE policy, the following statement is required: Excused absences are consistent with university policies in the undergraduate/graduate catalog and require appropriate documentation.

ENU 4930: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

ENU 6937: <https://gradcatalog.ufl.edu/graduate/regulations/>

9.2 Assignments

Assignments must be submitted electronically via Canvas. The following restrictions apply for submission:

- All submissions must be a single PDF document.
- If you do not have access to a physical scanner and you choose to use a phone or tablet to “scan” your handwritten document, you must use the free Adobe Scan app.
- Fully electronic alternatives include a PDF from Word with Equation Editor or L^AT_EX.

The following penalties apply for late assignments:

- Late assignments submitted up to 24 hours after the due date will have 25% of the maximum possible points subtracted, except for excused absences as defined by university policy.
- Late assignments submitted more than 24 hours after the due date will receive no credit, except for excused absences as defined by university policy.

9.3 Electronic Communication and Course Website

Canvas is used extensively for the course including, but not limited to:

- Distributing and storing the course syllabus, along with any syllabus updates
- Maintaining student grades
- Regular communication with students through announcements
- Providing access to course materials

9.4 Changes to Syllabus

Changes to this syllabus will be provided via the Canvas platform. Such changes may include those required by policy changes, changes in the speed of course coverage, university closure, errors in previous syllabus versions, and other reasons.

10 Standardized Syllabus Content

The following statements were required to be inserted into all syllabi by the HWCOE and/or UF. While you may ask me questions about the statements, I may have to refer you to the appropriate UF unit responsible for the statement.

10.1 Students Requiring Accommodations

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

10.2 Course Evaluations

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.ua.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluer.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.ua.ufl.edu/public-results/>.

10.3 In-Class Recording

Students are allowed to record video or audio of class lectures. However, the purposes for which these recordings may be used are strictly controlled. The only allowable purposes are (1) for personal educational use, (2) in connection with a complaint to the university, or (3) as evidence in, or in preparation for, a criminal or civil proceeding. All other purposes are prohibited. Specifically, students may not publish recorded lectures without the written consent of the instructor.

A “class lecture” is an educational presentation intended to inform or teach enrolled students about a particular subject, including any instructor-led discussions that form part of the presentation, and delivered by any instructor hired or appointed by the University, or by a guest instructor, as part of a University of Florida course. A class lecture does not include lab sessions, student presentations, clinical presentations such as patient history, academic exercises involving solely student participation, assessments (quizzes, tests, exams), field trips, private conversations between students in the class or between a student and the faculty or lecturer during a class session.

Publication without permission of the instructor is prohibited. To “publish” means to share, transmit, circulate, distribute, or provide access to a recording, regardless of format or medium,

to another person (or persons), including but not limited to another student within the same class section. Additionally, a recording, or transcript of a recording, is considered published if it is posted on or uploaded to, in whole or in part, any media platform, including but not limited to social media, book, magazine, newspaper, leaflet, or third party note/tutoring services. A student who publishes a recording without written consent may be subject to a civil cause of action instituted by a person injured by the publication and/or discipline under UF Regulation 4.040 Student Honor Code and Student Conduct Code.

10.4 University Honesty Policy

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.” The Honor Code:

<https://sccr.dso.ufl.edu/process/student-conduct-code/>

specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

10.5 Commitment to a Safe and Inclusive Learning Environment

The Herbert Wertheim College of Engineering values varied perspectives and lived experiences within our community and is committed to supporting the University’s core values, including the elimination of discrimination. It is expected that every person in this class will treat one another with dignity and respect regardless of race, creed, color, religion, age, disability, sex, sexual orientation, gender identity and expression, marital status, national origin, political opinions or affiliations, genetic information, and veteran status.

If you feel like your performance in class is being impacted by discrimination or harassment of any kind, please contact your instructor or any of the following:

- Your academic advisor or Undergraduate/Graduate Program Coordinator
- HWCoe Human Resources, 352-392-0904, student-support-hr@eng.ufl.edu
- Pam Dickrell, Associate Dean of Student Affairs, 352-392-2177, pld@ufl.edu
- Toshikazu Nishida, Associate Dean of Academic Affairs, 352-392-0943, nishida@ufl.edu

10.6 Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

10.7 Student Privacy

There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see:

<https://registrar.ufl.edu/ferpa.html>

10.8 Campus Resources

10.8.1 Health and Wellness

U Matter, We Care

Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.

Counseling and Wellness Center: <http://www.counseling.ufl.edu/>, and 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Sexual Discrimination, Harassment, Assault, or Violence

If you or a friend has been subjected to sexual discrimination, sexual harassment, sexual assault, or violence contact the Office of Title IX Compliance (<https://titleix.ufl.edu>), located at Yon Hall Room 427, 1908 Stadium Road, (352) 273-1094, title-ix@ufl.edu

Sexual Assault Recovery Services (SARS)

Student Health Care Center, 392-1161.

University Police Department at 392-1111 (or 9-1-1 for emergencies), or <http://www.police.ufl.edu/>

10.8.2 Academic Resources

E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu

<https://elearning.ufl.edu/>

Career Connections Center, Reitz Union, 392-1601. Career assistance and counseling.

<https://career.ufl.edu/>

Library Support, Various ways to receive assistance with respect to using the libraries or finding resources.

<http://cms.uflib.ufl.edu/ask>

Teaching Center, Broward Hall, 392-2010 or 392-6420. General study skills and tutoring.

<https://teachingcenter.ufl.edu/>

Writing Studio, 302 Tigert Hall, 846-1138. Help brainstorming, formatting, and writing papers.

<https://writing.ufl.edu/writing-studio/>

Student Complaints Campus:

<https://sccr.dso.ufl.edu/policies/student-honor-code-student-conduct-code/>

<https://care.dso.ufl.edu>

On-Line Students Complaints:

<https://distance.ufl.edu/state-authorization-status/#student-complaint>