

Purdue University
School of Nuclear Engineering
NUCL 200 – Introduction to Nuclear Engineering
Fall 2021

Instructor: Prof. (Dr.) Rusi Taleyarkhan
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TA/Graders: Jacob Halpern (jhalpern@purdue.edu); Dustin Rodgers (rodger21@purdue.edu); Thugilan Raman (ramant@purdue.edu)

Schedule: Lectures (M-W-Fri; 9:30am – 10:20 am; STEW 314)

Office Hours-tent. - TBD
- With Prof. via appointment / Email

Prerequisites: PHYS 152 and MA 162 or equivalent

Course Description: This course will acquaint students with the field of nuclear engineering and design. Concepts of atomic-nuclear physics, fission, fusion, radioactivity, health effects, disposal, medical/dating/tracing/DNA-fingerprinting/food irradiation-preservation applications will be introduced.

Texts (Optional): J. Lamarsh, A. Baratta, Intro. to Nuclear Engineering, 3rd /4th Editions, Prentice Hall, 2001. **** Errata 3rd Ed. *****; **Handouts** R.Murray,K.Holbert, ”Nucl.Energy”,7thEd.,Elsevier,2015.

Grading: The course grade will be based on homework assignments-quizzes, and four exams; per breakdown:
Homework/Quizzes: 35%
Exam 1: 10%
Exam 2: 10%
Exam 3: 10%
Final Exam: 35%
A+,A-: 85+; 81-85
B+,B, B-: 77-80; 74-76; 71-73
C+,C,C-: 67-70; 64-66; 61-63
D, E, F, I as warranted
5%(discretionary) as warranted/class participation

Notes: Late HW submissions: 20%/day reduction or prior approval from instructor; DRC arrangements are responsibility of students. Failure to appear for exam (w/o prior Instructor approval) will result in 0% grade. Exams will cover material mainly from the in-class lectures, home works /handouts/quizzes. You are responsible for all material covered in the lectures. **The best way to earn a high grade for this course is to attend lectures, take good notes, do your homework/quizzes and communicate with graders in timely manner (esp. for clarifying course grade issues) and the Professor (for concepts covered in class and to resolve situations with grades – if not with the grader/TA). Purdue’s student honor code will be enforced as required.**

**** In case of sickness or excused absence submit a physician’s certificate or a letter from the Dean of Students/Protect Purdue, or obtain prior approval from the instructor for accommodations.** In case of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. You will be informed promptly via email or Brightspace. See Purdue’s home-page for updates on emergencies, & emergency preparedness (shelter in place; fire-evacuation).