

Chemical Engineering 612
Class Schedule and Assignments (Subject to Change)
Winter 2026

Class	Date	Topic	Reading	HW#	Problems
1	W--Jan 7	Introduction/Project Info	Rickover Letter	--	--
2	F--Jan 9	Design and Licensing	10-CFR-50 , 10-CFR-52	1	<i>Web Problem 1</i>
3	M--Jan 12	OpenMC Setup/Basics	Reading #1	--	--
4	W--Jan 14	OpenMC Modeling/Capabilities	Reading #1	--	--
5	F--Jan 16	Introductory Neutronic Theory	Reading #2	2	<i>Web Problem 2</i>
-	M--Jan 19	***** HOLIDAY *****		***** No Class *****	
6	W--Jan 21	Criticality	Reading #2	--	--
7	F--Jan 23	Multi-Group Theory	Reading #2	3	<i>Web Problem 3</i>
8	M--Jan 26	Multi-Group Example	Reading #3	--	--
9	W--Jan 28	Reactor Concepts I	Reading #3	--	--
10	F--Jan 30	Reactor Concepts II	Reading #3	4	<i>Web Problem 4</i>
11	M--Feb 2	Core Thermal Analysis I	Reading #3	--	--
12	W--Feb 4	Core Thermal Analysis II	Reading #4,5	--	--
13	F--Feb 6	Fuel Temperature Profile	Reading #4,5	5	<i>Web Problem 5</i>
14	M--Feb 9	Realistic Fuel Conditions	Reading #4,5	--	--
15	W--Feb 11	Core Hydraulic Analysis	Reading #6	--	--
16	F--Feb 13	Exam 1	--	6	<i>Web Problem 6</i>
17	T--Feb 17	Natural Circulation	Reading #6	--	--
18	W--Feb 18	Safety Analysis I	Reading #9	--	--
19	F--Feb 20	Safety Analysis II	Reading #8	7	<i>Web Problem 7</i>
20	M--Feb 23	Thermodynamics I	Reading #7	--	--
21	W--Feb 25	Thermodynamics II	Reading #7	--	--
22	F--Feb 27	Thermodynamics III	Reading #11	8	<i>Web Problem 8</i>
23	M--Mar 2	PRA/Dose Analysis	Reading #10	--	--
24	W--Mar 4	Licensing	Reading #10	--	--
25	F--Mar 6	Licensing	NRC Safety Analysis Docs	9	<i>Web Problem 9</i>
26	M--Mar 9	Group Project Work	--	--	--
27	W--Mar 11	Group Project Work	--	--	--
28	F--Mar 13	Exam 2	--	10	<i>Web Problem 10</i>
29	<i>M--Mar 16</i>	Group Project Work	--	--	--
30	W--Mar 18	Group Project Work	--	--	--
-	F--Mar 20	*****Spring Break *****		***** No Class *****	
31	M--Mar 23	Group Project Work	--	11	<i>Web Problem 11</i>
32	W--Mar 25	Group Project Work	--	--	--
33	F--Mar 27	Group Project Work	--	--	--
34	M--Mar 30	Group Project Work	--	--	--
35	W--April 1	Group Project Work	--	--	--
36	F--April 3	Group Project Work	--	--	--
37	M--April 6	Group Project Work	--	--	--
38	W--April 8	Group Project Work	--	--	--
39	F--April 10	Group Project Work	--	--	--
40	M--April 13	Group Project Work	--	--	--
41	W--April 15	Final Project Presentations			