

Chemical Engineering 512
Class Schedule and Assignments (Subject to Change)
Fall 2025

Class	Date	Topic	DVD - Sections	HW Due
1	Th--Sep 4	Code Setup, Introduction	-	-
2	T--Sep 9	Export Control, Final Project Introduction	1-4	-
3	Th--Sep 11	Code Overview, Input Description	5,6	1
4	T--Sep 16	Input Description	7,11	-
5	Th--Sep 18	Input Description, Output Description	12-17	2
6	T--Sep 23	Heat Structure Input	18-24	-
7	Th--Sep 25	Valves, Form Losses, Wall Friction	25-27,30-32	3
8	T--Sep 30	Point Kinetics and Combining Structures	33-38	-
9	Th--Oct 2	Pump Curves	39-43	4
10	T--Oct 7	Transient Analyses, PWR	44-52	-
11	Th--Oct 9	Numerical Stability	53-57	5
12	T--Oct 14	Batch Files, Rapid Prototyping	58-63	-
13	Th--Oct 16	Control Variables, Tables	64-71	6
14	T--Oct 21	Modeling a PWR Core	72-78	-
15	Th--Oct 23	PYGI, Restart File	-	7
16	T--Oct 28	Debugging I	-	-
17	Th--Oct 30	Debugging II	-	8
18	T--Nov 4	Advanced Control Variables	-	-
19	Th--Nov 6	Kinetics	-	9
20	T--Nov 11	Final Project Work	-	-
21	Th--Nov 13	Final Project Work	-	10
22	T--Nov 18	Final Project Work	-	-
23	Th--Nov 20	Final Project Work	-	-
24	T--Nov 25	Final Project Work	-	-
25	Th--Nov 27	Thanksgiving Break	-	-
26	T--Dec 2	Final Project Work	-	-
27	Th--Dec 4	Final Project Presentations		
28	T--Dec 9	Final Project Presentations		