

Syllabus

Required Texts:

- *FE Review Manual*, 3rd edition (FERM)
- *NCEES Fundamentals of Engineering Supplied-Reference Handbook*

lesson number	lesson topic	diagnostic exam problems	FERM chapter	sample problems	FE-style problems
I	Introduction	NA	How to Use This Book	NA	NA
1	Math 1	DE III: 1, 2, 3, 10	Chapter 4	1-5	1-7
			Chapter 5	2	1, 2, 10-13, 24-28
2	Math 2	DE III: 4-8	Chapter 5	1, 3, 4, 5, 6	3-9, 14-23, 29-32
			Chapter 6	1-3	1-21
3	Math 3	DE III: 9, 11, 12, 13, 14, 15	Chapter 7	1-5	1-25
			Chapter 8	1-3	1-20
			Chapter 9	NA	1
4	Engineering Economics	DE XV: 1-15	Chapter 51	1-6	1-20
			Chapter 52	1-5	1-18
			Chapter 53	1-6	1-14
5	Biology	DE X: 1-15	Chapter 33	1, 2	1-9
			Chapter 34	1, 2	1-6
			Chapter 35	1, 2	1-5
			Chapter 36	1, 2	1-6
6	Chemistry	DE XI: 1-15	Chapter 37	1-5	1-24
			Chapter 38	1-9	1-15
			Chapter 39	1-5	1-14
7	Statics	DE IV: 1-15	Chapter 10	1-5	1-23
			Chapter 11	1-4	1-10
			Chapter 12	1-5	1-12
			Chapter 13	1-6	1-18
8	Dynamics	DE V: 1-15	Chapter 14	1-6	1-16
			Chapter 15	1-7	1-14
			Chapter 16	1-5	1-17
			Chapter 17	1-7	1-17
9	Fluid Mechanics	DE VII: 1-15	Chapter 22	1-2	1-11
			Chapter 23	1-7	1-10
			Chapter 24	1-5	1-27
			Chapter 25	1-4	1-22

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10	Thermodynamics	DE VIII: 1–15	Chapter 26	1–5	1–22
			Chapter 27	1–5	1–19
			Chapter 28	1–5	1–27
			Chapter 29	1–6	1–14
			Chapter 30	1–2	1–3
11	Heat Transfer		Chapter 31	1–2	1–13
12	Material Science	DE XII: 1–15	Chapter 40	1–3	1–8
			Chapter 41	1–3	1–11
			Chapter 42	1–3	1–18
13	Mechanics/ Strength of Materials	DE VI: 1–15	Chapter 18	1–5	1–18
			Chapter 19	1–4	1–18
			Chapter 20	1–5	1–15
			Chapter 21	1–2	1–10
14a	Electricity and Magnetism	DE XIII: 1–8	Chapter 43	1–3	1–5
14b	Direct Current Electricity		Chapter 44	1–7	1–32
15	Alternating Current Electricity	DE XIII: 9–14	Chapter 45	1–5	1–17
16	Electronics	DE XIII: 15	Chapter 46	4	2–5
17	Computers	DE XIV: 1–8	Chapter 48	4	4–19, 27
18	Ethics	DE XVI: 1–15	Chapter 54	1–11	1–31

FERM Sample Exam: Work all problems

Homework problems are to be completed prior to class. The NCEES Handbook should be the only reference used in completing homework assignments. FERM should be reviewed for problems that were solved incorrectly.