

COURSE SCHEDULE

Orientation —	Orientation Review of Real Estate Markets and Appraisal Techniques
Session 1 —Day 1 a.m.	Lecture 1. Review of Income Capitalization Concepts
Session 2 —Day 1 p.m.	Lecture 2. Projecting Cash Flows
Session 3 —Day 2 a.m.	Review and Correction of Homework Lecture 3. Investment Analysis Concepts
Session 4 —Day 2 p.m.	Lecture 4. DCF and Yield Capitalization Using an Overall Yield Rate (Y_O)
Session 5 —Day 3 a.m.	Review and Correction of Homework Lecture 5. Financial Leverage
Session 6 —Day 3 p.m.	Lecture 6. Stabilizing Income and Equity Yield Capitalization Using an Equity Yield Rate (Y_E)
Session 7 —Day 4 a.m.	Review and Correction of Homework Lecture 7. Risk Analysis
Session 8 —Day 4 p.m.	Lecture 8. Applications
Session 9 —Day 5 a.m.	Review and Correction of Homework Lecture 9. Supporting the Discount Rate
Session 10 —Day 5 p.m.	Lecture 10. Course Review
Examination —Day 6 a.m.	

HOMWORK ASSIGNMENT SCHEDULE

The identification of the nights is for national and other offerings in which the course begins on Sunday evening with the Orientation. Appropriate adjustments should be made for different presentation formats. The instructor will indicate any changes in homework assignments.

Homework to prepare for Sessions 1 and 2

Required reading

Lecture 1. Review of Income Capitalization Concepts, pp. 1-1 to 1-44
The Appraisal of Real Estate, 13th Edition, Chapter 20, P. 445-451, 465-467;
Chapter 22, P. 499-517; Chapter 23, P. 519-524

Lecture 2. Projecting Cash Flows, pp. 2-1 to 2-29
The Appraisal of Real Estate, 13th Edition, Chapter 20, P. 447, 450-458, 463-465;
Chapter 21, 474-492; Chapter 23, 526-528

Evening of Day 1—Homework to prepare for Sessions 3 and 4

Required reading

Lecture 3. Investment Analysis Concepts, pp. 3-1 to 3-43
The Appraisal of Real Estate, 13th Edition, Chapter 5, P. 108-109; Chapter 8, P. 149; Chapter 20, P. 447, 450, 456-458; Chapter 22, P. 499-517, 505-507; Chapter 24, P. 544-550; Appendix B, P. 671-684

Lecture 4. DCF and Yield Capitalization Using an Overall Yield Rate (Y_o), pp. 4-1 to 4-44
The Appraisal of Real Estate, 13th Edition, Chapter 20, P. 462-463, 466-467;
Chapter 23, P. 520-526, 528-538

Required writing

Practice Problems 1–34, pp. 1-45 to 1-50, 2-30 to 2-35.

Evening of Day 2—Homework to prepare for Sessions 5 and 6

Required reading

Lecture 5. Financial Leverage, pp. 5-1 to 5-24

The Appraisal of Real Estate, 13th Edition, Chapter 5, P. 85-109; Chapter 8, P. 149; Chapter 20, P. 461-465; Chapter 22, P. 499-507

Lecture 6. Stabilizing Income and Equity Yield Capitalization Using an Equity Yield Rate (Y_E), pp. 6-1 to 6-30

The Appraisal of Real Estate, 13th Edition, Chapter 24, P. 539-541; Appendix B, P. 668-674, and Jeffrey D. Fisher's "Using Circular Reference in Spreadsheets to Estimate Value" (See Appendix A)

Required writing

Practice Problems 35–57, pp. 3-44 to 3-50, 4-43 to 4-47

Evening of Day 3—Homework to prepare for Sessions 7 and 8

Required reading

Lecture 7. Risk Analysis, pp. 7-1 to 7-35

The Appraisal of Real Estate, 13th Edition, Chapter 8, P. 157; Chapter 20, P. 445-450, 456-465; Chapter 24, P. 544-550

Lecture 8. Applications, pp. 8-1 to 8-43

The Appraisal of Real Estate, 13th Edition, Chapter 5, P. 89-94, 107-109; Chapter 12, P. 277-296; Chapter 20, P. 447, 450-467; Chapter 21, P. 474-494; Chapter 24, P. 539-550; Appendix B, P. 668-686

Required writing

Practice Problems 58–73, pp. 5-25 to 5-27, 6-31 to 6-33

Evening of Day 4—Homework to prepare for Session 9

Required reading

Lecture 9. Supporting the Discount Rate, pp. 9-1 to 9-24
The Appraisal of Real Estate, 13th Edition, Chapter 4, 58-64; Chapter 5, P. 94-97;
Chapter 20, P. 460-463; Chapter 22, P. 501-504; Appendix B, P. 679-681, 686
The Dictionary of Real Estate Appraisal, 4th ed.¹

Required writing

Practice Problems 74–95, pp. 7-36 to 7-42, 8-44 to 8-50

1. Subsequent references to *The Dictionary of Real Estate Appraisal* refer to the 4th edition.

SUMMARY OF NUMERICAL ANSWERS TO PRACTICE PROBLEMS

Session 1

9	0.0930 or 9.30%
10	$R_M = 0.1053$; $R_O = 0.0977$
11a	\$666,667
11b	14.30%
11c	10.71%
12	\$651,163
13	10.21%
14	\$830,129
15	0.1387 or 13.87%
16	1,633,333
17	\$1,138,462
18a	0.0938 or 9.38%
18b	0.0750 or 7.50%
19a	\$736,842
19b	\$184,210.50

Session 2

25a	\$5,000
25b	\$250
26	\$1 per sq. ft.
27	\$15.61
28	\$1,226,756
29	\$1,656,121
30a	\$97,000
30b	\$76,167
30c	\$36,167
30d	0.53
30e	0.41
31	\$886.98
32	Year 1 = \$74,008; Year 2 = \$85,675
33	Year 1 = \$30,000; Year 2 = \$31,500; Year 3 = \$33,075; Year 4 = \$34,729

Session 3

35a	$IRR = 13.38\%$
35b	+\$135,525
35d	15.95%
37	\$8,960
38	\$1,679,105
39a	11.67%
39b	15.66%
39c	9.19%

Session 4

51a	\$3,094,983
51b	\$2,365,255
52	\$1,429,000 (Rounded)
53	\$1,750,000
54	\$1,511,101
55	\$2,380,587
56	\$1,432,379
57	0.1330 or 13.30%

Session 5

59	at 25%: 0.1267 at 50%: 0.1300 at 75%: 0.1400 at 90%: 0.1700
60	at 25%: 0.0930 at 50%: 0.0800 at 75%: 0.0400 at 90%: -0.0800
62	$Y_{ET} = 10.90\%$ $Y_{MT} = 8.60\%$
65a	0.1895, or 18.95%
65b	0.0398 or 3.98%

Session 6

66	\$527,382
67	\$762,952
69	\$2,125,000
70a	\$2,566,927
70b	0.0974 or 9.74%
71a	\$5,599,104
71b	\$5,905,730

Session 7

74a	$R_E = (0.0150)$ or -1.50%
74b	$R_E = 0.0800$ or 8.00%
74c	$R_E = 0.0500$ or 5.00%
75	0.1640 or 16.40%
76a	8.35 units, or 83.5% occupancy
76b	83.5%
78a	\$271,671
78b	PV at 14.35% = \$16,823
78c	\$409,175
78d	\$102,294
83a	Pessimistic: 7.93%
	Most likely: 10.00%
	Optimistic: 12.12%
83b	10.02%
83c	Variance: 0.000263
	Standard deviation: 1.62%
84a	Expected $IRR = 10.14\%$
	Standard deviation: 5.52%

Session 8

85a	\$2,036,577
85b	\$1,906,975
85c	\$129,601
86	(\$29,955)
87a	$V_O = \$740,152$ $V_{LF} = \$601,356$ $V_{LH} = \$138,796$
87b	$V_O = \$740,152$ $V_{LF} = \$764,721$ $V_{LH} = (\$24,569)$
89	\$4,357,759
91a	\$238,392
91b	16.00%
93b	Property: \$7,736,998 Nonrealty: \$901,244
94	\$9,308,873