

FINITE MATHEMATICS (MATH 143 OC1)

This course – like all of my courses - is structured with closing dates for each test; all tests and exams may be taken early. Taking any test or exam late will incur a point penalty, out of respect and fairness to those students that do remain ‘on schedule’.

All tests and exams are available from day #ONE of the SPRING SEMESTER 2012. It is possible to complete the course early, should that be the choice of any individual participant.

PROFESSOR NC RESSLER SPRING SEMESTER 2012

FINITE MATHEMATICS PENCIL/PAPER HOMEWORK LIST

(*FOUND WITHIN THE E-BOOK OR THE HARD COPY TEXT BOOK*)

LIAL/GREENWELL/RITCHEY (TENTH EDITION) PEARSON PUBLISHING

Any MAKE-UP (*missed*) Tests and Exams are scored one grade lower;

“A” will become a “B”;

“B” will become a “C”

“C” will become a “D”

Chapter ONE

1.3 Least Squares Line

Pg.32 (1, 2, 3, 4, 5)

Chapter TWO

2.1 Echelon Method

Pg. 52 (19, 21, 23, 31, 37, 39)

2.2 Gauss/Jordan Method

Pg. 65 (1, 3, 5, 7, 11, 15, 19, 21, 23, 27, 45, 49, 53)

2.3 Matrix Addition/ Subtraction

Pg. 74 (1, 7, 9, 11, 17, 19, 23, 31, 33, 43, 47)

2.4 Matrix Multiplication

Pg. 83 (7, 9, 11, 17, 27, 31, 43)

2.5 Matrix Inverses

Pg. 94 (9, 15, 17, 19, 23, 29, 33, 35, 38)

2.6 Input-Output Models

Pg. 102 (1, 6, 7, 8, 11, 12, 13, 14)

CHAPTER ONE/TWO TEST *closing* WEDNESDAY February 1st 2012

(Only section 1.3 and all of chapter 2)

Chapter THREE

3.1 Graphing Linear Inequalities

Pg. 118 (11, 15, 27, 30, 40, 45)

3.2 Linear Programming Graphs

Pg. 124 (2, 4, 5, 8, 11)

3.3 Applications of linear Programming

Pg. 131 (9, 13, 14)

CHAPTER THREE TEST *closing* THURSDAY February 9th 2012

Chapter FOUR

4.1 Slack Variables and the Pivot

Pg. 148 (3, 5, 8, 10, 11, 14, 15, 19)

4.2 Maximization Problems

Pg. 157 (3, 7, 8, 21, 22, 27)

4.3 Minimization Problems

Pg. 168 (1, 2, 5, 7, 9, 15, 16, 18)

4.4 Slack Variables

Pg. 176 (1, 2, 5, 7, 9, 11)

CHAPTER FOUR TEST closing SUNDAY, February 19th 2012

Last day to withdraw with “W” on transcript from 16 week courses: March 11th 2012

Last day with no record of course from 16 week courses: February 12th 2012

Chapter FIVE

5.1 Simple and Compound Interest

Pg. 197 (1, 2, 3, 4, 7, 8, 10, 12, 15, 16, 17, 18, 22, 24, 25, 27, 30, 37, 38, 40, 41, 45, 48, 51, 56)

5.2 Future Value of an Annuity

Pg. 207 (2, 3, 5, 7, 10, 11, 12, 13, 19, 20, 22, 23, 27, 28, 31, 32, 35, 36, 48, 53, 59)

5.3 Present Value; Amortization

Pg. 215 (1, 2, 4, 5, 7, 8, 11, 12, 15, 17, 18, 23 - 25, 27, 29, 33, 38, 40, 42, 48)

CHAPTER FIVE TEST closing SUNDAY, March 4th, 2012

Mid Semester Exam (ON CAMPUS) Completion prior to NOON FRIDAY March 9th 2012

(Deadline: any date, any time the Testing Center is available to students COMPLETION of Exam PRIOR TO 12:00 NOON) PHOTO ID

Chapter SIX

6.1 Statements

Pg. 231 (1 – 17(ALL), 20, 21, 24, 26, 28, 29, 31, 32, 49, 50, 54, 56, 58, 59, 65 - 67, 72 - 74)

6.2 Truth Tables and Equivalent Statements

Pg. 238 (3, 4, 7, 8, 10, 20, 22, 25, 26, 27, 28, 41, 48)

6.3 Conditional and Circuits

Pg. 247 (1 – 10 (ALL), 17, 22, 34 - 36, 47, 51, 72, 75, 81, 82, 92)

6.4 More Conditional

Pg. 254 (4, 5, 8, 9, 11, 13, 17, 20, 28, 29, 33, 35, 40)

6.5 Analyzing Arguments and Proofs

Pg. 264 (1, 3, 5, 9, 13, 15, 17)

6.6 Analyzing Arguments and Quantifiers

Pg. 272 (1, 4, 13, 14, 25, 26, 31, 32)

CHAPTER SIX TEST closing THURSDAY March 22nd 2012

Chapter SEVEN

7.1 Sets

Pg. 290 (2, 3, 5 – 12 (all), 15, 16, 20, 21, 25, 29, 30, 33 - 35, 37, 41, 43 - 45, 50, 57{a, b, c, d, e, f, g})

7.2 Applications of Venn Diagrams

Pg. 298 (38, 39{a, b, c, d}, 45{a, b, c, d, e, f, g, h}, 48{a, b, c})

7.3 Introduction to Probability

Pg. 307 (1, 2, 10, 11, 12, 15, 17, 20, 22, 24, 25, 27, 30, 31, 32, 36, 38, 39, 49, 51{a, b, c, d, e, f})

7.4 Basic Concepts

Pg. 316 (1, - 8 {all}, 10 {a, b, c}, 21{a, b, c, d}, 23 {a, b, c, d}, 24, 25, 27, 30, 32 {a, b, c, d}, 33, 34, 35, 46, 47, 53, 55, 56{a, b}, 61{a, b, c, d}, 62{a, b, c, d}, 68 (a, b, c, not d))

7.5 Conditional Probability; Independent Events

Pg.330 (1, 4, 5, 6, 9, 10, 12, 15, 16, 17, 23, 24, 28, 39, 50, 61, 62{a, b}, 75{a, b}, 80{a, b, c, d})

7.6 Bayes Theorem

Pg. 340 (10, 11, 14, 15, 26{a, b, c}, 27{a, b, c, d, e}, 31{a, b})

CHAPTER SEVEN TEST closing MONDAY April 2nd 2012

Chapter EIGHT

8.5 Expected Values

Pg. 370 (8.3 counting principles; *read*)

Pg. 395 (9, 10, 15, 31, 32, 35{a, b, c, d, e}, 37{a, b})

Chapter NINE

9.1 Frequency Distributions

Pg. 415 (39, 40, 43, 44{a, b, c, d, e, f})

9.2 Measures of Variation

Pg. 425 (13, 15, 17, 19, 25)

9.3 Normal Distribution

Pg. 435 (51 - 53, 61{a, b, c})

9.4 Binomial Distribution

(8.4 binomial probability; *read*)

Pg. 443 (18, 19{a, b}, 23{a, b})

CHAPTER EIGHT (.5)/ NINE TEST closing SUNDAY April 15th 2012

(Only section 8.5 and all of chapter 9)

Chapter TEN

10.1 Basic Properties

Pg. 459 (1, 3, 6, 8, 10, 11, 13, 16, 18, 19, 22, 28{a, b, c, d, e}, 34{a, b, c, d, e, f})

10.2 Regular Markov Chains

Pg. 468 (1, 3, 7, 11, 15, 27,{a, b})

10.3 Absorbing Markov Chains

Pg. 477 (1, 3, 6, 7, 9)

Chapter ELEVEN

11.1 Strictly Determined Games

Pg. 493 (1, 3, 7, 8, 9, 10, 14, 15, 17, 21, 23, 24, 25, 29{a, b, c}, 32)

11.2 Mixed Strategies

Pg. 503 (1{a, b, c, d}, 4, 8, 15, 16)

11.3 Game Theory and Linear Programming

Pg. 510 (2, 10, 13)

CHAPTER TEN/ELEVEN TEST closing SUNDAY May 6th 2012

Final Exam ON CAMPUS

Completion prior to: NOON FRIDAY May 11th 2012 PHOTO ID

(Deadline: any date, any time the Testing Center is available to students COMPLETION of Exam PRIOR TO 12:00 NOON)

REMEMBER:

In order for me to score your Pencil/Paper Homework, Compute your Transcript grade --- **and submit your grades** to the registrar you must have *course completion earlier or at least according to the schedule above!* Those remote aswell as campus students, please remember IF the Pencil/Paper Homework is to provide additional points to your transcript grade I must have it

on my desk one week prior to the course closing. The Pencil/Paper Homework MUST be on my desk FRIDAY, MAY 4th, 2012 at the latest.

Submission to the Skokie Campus arrives by carrier the NEXT DAY to my Des Plaines office.

Be certain your homework reaches me according to the schedule above – or federally mail it to my Des Plaines office:

Professor N Ressler

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