

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 1. Day 1 - June 8**

Read a [Welcome Letter](#)

Read the [Course Syllabus](#) and acquire [the required textbook](#)

Read [Math 193 Expectations](#)

*Assessment: Take the [Syllabus Quiz](#)

[Introduce yourself](#) to the class

Read [advice from previous students about succeeding in this course](#)

Optional: Print out the entire 50-day schedule for reference throughout the semester. To do so, click on Content. Then, click on "Compile for Printing" and check the box for "Module I" and hit "View" at the bottom.

This course will have lots of word problems. You may not know it, but there are many strategies to employ when solving a word problem. Click [here](#) to see a list of what I might call the Super Seven Problem Solving Strategies. When you are stuck on a word problem, it might help to think back to this list.

Optional: To practice these problem-solving strategies, go to <http://www.interact.math/> and select (a) "Miller: Mathematical Ideas 11ed" and then select "Chapter 1" and "Section 1.3" (b) "Blitzer: Thinking Mathematically 4ed" and then select "Chapter 1" and "Section 1.3"

Optional: Read [How to Succeed in Math](#)

Optional: Read [How to Read Mathematics](#)

Optional: Read [Why Study Mathematics?](#)

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 2. Day 2 - June 9**

Read Chapter 2 in text "*Excursions in Modern Mathematics*" [You will find a copy of this chapter (only!) of the text [here](#) if you have not yet received your book after an online purchase.]

View a [video introduction](#) to chapter 2.

Optional: Take [Chapter 2 Terminology Quiz](#)

Skim the [Chapter 2 Study Guide](#)

View [Weighted Voting Systems Terminology and Notation video](#)

Print the [Four Players worksheet](#) and the [Weighted Voting Terminology Problems worksheet](#) before viewing the Weighted Voting Systems Terminology Problems video

View [Weighted Voting Systems Terminology Problems video](#)

Work homework problems #1-5, 7-10, 35, 37, 39-46 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 2, section 2A exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 3. Day 3 - June 10**

View a [video](#) on measuring Banzhaf power.

Print the [Banzhaf and Shapley-Shubik Power Problems worksheet](#) before viewing the videos below

View [Banzhaf and Shapley-Shubik Power Indices video](#)

View [Banzhaf and Shapley-Shubik Power Problems video](#) [continuation of the first video]

Yes, view yet another [video](#) on measuring Banzhaf power. This one involves some "shortcuts."

View another example on [video](#) illustrating the measurement of Shapley-Shubik power.

Optional: Take [Chapter 2 Practice Quiz 1](#)

Work homework problems #11-16, 19-22, 23-28, 31-34 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 2, section 2B and 2C exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 4. Day 4 - June 11**

Print the [Comparing Measures of Power worksheet](#) and the [More Weighted Voting Examples worksheet](#) before viewing the Weighted Voting Examples video

View [Weighted Voting Examples video](#)

Print the [What Vote Should I Buy worksheet](#) and the [Are You Always a Dummy worksheet](#) before viewing the Additional Weighted Voting Examples from Chapter 2 video

The following URL (website) is used in the video below: <http://www.cut-the-knot.org/Curriculum/SocialScience/PowerIndex.shtml>

View [Additional Weighted Voting Examples video](#)

Work homework problems #47-51, 54-56, 59 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 2, section 2D exercises.

Optional: Take [Chapter 2 Practice Quiz 2](#)

Optional: Take [Chapter 2 Practice Quiz 3](#)

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 5. Day 5 - June 12**

Make arrangements with your proctor to take Exams 1a and 1b (by Day 10). [*Remember, you do have some flexibility in setting this date(s). But falling behind is a recipe for failure.*]

Optional: Take [Chapter 2 Practice Quiz 4](#)

*Assessment: Take [Chapter 2 Walking Quiz](#)

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 6. Day 6 - June 15**

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*Assessment: Take [Chapter 2 Jogging Quiz](#)

Optional: *Assessment: Take [Exam 1a on chapter 2](#) today (early).

Read Chapter 3 in text "*Excursions in Modern Mathematics*"

Optional: Take [Chapter 3 Terminology Quiz](#)

Skim the [Chapter 3 Study Guide](#)

Very a very [short introduction to fair division video](#).

View [Introduction to Fair Division](#) video.

Optional: It may be confusing at first, but try the [Method of Markers applet](#)

View the [Last Diminisher Method video](#)

View [another Last Diminisher Method video](#).

Optional (for fun): Compare Dr. Buske's sad videos with [how to give a good math talk](#).

Work homework problems #1-6, 9-10, 41-50, 59-65, 67 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 3, section 3A and 3E exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 7. Day 7 - June 16**

i»¿

Print the [Cake Cutting 101 worksheet](#) and the [More Cake Cutting worksheet](#) before viewing the Cake Cutting video

View [Cake Cutting video](#)

View a [lone-divider method video example](#). Then, continue this example by viewing this [video](#). Extend the example even further with this [video](#).

View [Lone-Divider Method video](#)

View the [Lone-Chooser Method video](#).

View a [video](#) on the Method of sealed bids.

Print the [Hogg'n The Booty worksheet](#) before viewing the Hogg'n The Booty video

View [Hogg'n The Booty video](#)

Try the [Method of Sealed Bids applet](#)

Work homework problems #11-26, 29-40, 51-55, 57 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 3, section 3B, 3C, 3D, and 3F exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 8. Day 8 - June 17**

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Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 3, section 3H exercises.

Optional: Take [Chapter 3 Practice Quiz 1](#)

Work homework problems #69, 70, 73, 77, 82 from text

*Assessment: Take [Chapter 3 Walking Quiz](#)

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 9. Day 9 - June 18**

*Assessment: Take [Chapter 3 Jogging Quiz](#)

Review Chapters 2 and 3

Optional: Take [Practice Exam II \(Chapters 2 and 3\)](#)

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan

- 10. Day 10 - June 19

*Assessment: Take [Exam 1a \(chapter 2\)](#) and [Exam 1b \(chapter 3\)](#). [Note: This is a proctored exam. You should plan to bring a scientific calculator for use on this exam.]

Optional: No time to rest! To prepare yourself for chapter 9, review quadratic equations and subscript notation. To review quadratic equations, at www.interactmath.com, try

(a) Bittinger, Elementary Algebra, Concepts and Applications 8ed, chapter 9, section 9.1-9.4 exercises.

(b) Blitzer, Introductory Algebra for College Students 5ed, chapter 10, section 10.1-10.3 exercises.

(c) Lial, Developmental Mathematics, Basic Mathematics and Algebra, chapter 17, section 17.1-17.3 exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 11. Day 11 - June 22**

Read Chapter 9 in text "*Excursions in Modern Mathematics*"

Optional: Take [Chapter 9 Terminology Quiz](#)

Skim the [Chapter 9 Study Guide](#)

View [Fibonacci Numbers video](#)

View another introductory [video](#) on the Fibonacci numbers. And, view this [video](#) for help on the mathematical definition of the Fibonacci numbers.

Optional: Read [FoxTrot cartoon](#)

Optional: Shop for a [Fibonacci Pillow](#)

Optional: More on [Fibonacci Numbers in Pop Culture](#)

Work homework problems #1-8, 11, 13-16 from text

Optional: Remembering order of operations is key to the homework problems today and in chapter 9. My daughter put together a [diagram](#) using a mnemonic device to help her remember the order. How do subscripts fit into this list? [They are after the "P" and before the "E"]

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 9, section 9A exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 12. Day 12 - June 23**

Print [Golden Ratio Derivation](#) worksheet (for use with Golden Ratio video)

View [Binet's Formula, Similarity, and Golden Ratio video](#)

Work homework problems #19-32, 35-40 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 9, section 9B, 9C, and 9D

exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 13. Day 13 - June 24**

Get a pair of scissors and print [grid paper](#) for Gnomon video

Print [Triangular Gnomon Example 1](#) and [Triangular Gnomon Example 2](#) for use with Gnomons video

View [Gnomons video](#)

Here is another gnomon [video](#). And another [gnomon video](#). And, lastly, one more [example video](#) involving gnomons.

View a :34 [video](#) on gnomonic growth.

Take a look at an [applet](#) written to illustrate the concept of a (rectangular) gnomon.

Use this [applet](#) I wrote to practice the most basic type of rectangular gnomon problem. Requires Java.

Optional: Here is a [nice little extra piece](#) on gnomonic growth (growth factors and such).

Optional: A summary [website](#)

Work homework problems #41-50 in text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 9, section 9E exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 14. Day 14 - June 25**

View [Linking the Golden Ratio to the Fibonacci Numbers video](#)

Optional: [Another view of the golden rectangle](#)

Optional: Take [Chapter 9 Practice Quiz 1](#)

Work homework problems #51-54, 57-59 in text

Optional: At www.interactmath.com, try Tannenbaum, chapter 9, section 9F exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 15. Day 15 - June 26**

Print [Additional Examples](#) worksheet for use with Additional Examples video

View [Additional Examples from Chapter 9 video](#)

Work homework problems #61-63, 65 in text

Optional: Take [Chapter 9 Practice Quiz 2](#)

Optional: Take [Chapter 9 Practice Quiz 3](#)

*Assessment: Take [Chapter 9 Walking Quiz](#).

Optional: Make arrangements to take Exam 2a on Day 17.

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 16. Day 16 - June 29

Optional: Print and attempt [Digging for Gold](#) worksheet

Optional: Print and attempt [Geometry of Bark](#) worksheet

Optional: View [Geometry of Bark video](#)

Optional: Work homework problems #67, 68 in text

*Assessment: Take [Chapter 9 Jogging Quiz](#)

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 17. Day 17 - June 30

Optional: *Assessment: Take [Exam 2a \(chapter 9\)](#)

Optional: Review your understanding of percentages. At www.interactmath.com, try Tannenbaum 7th ed, chapter 10, section 10A exercises.

Optional: Watch the [On Percentages video](#) for a good laugh.
Now watch a real [video](#) on percentages.

Read Chapter 10 in text "*Excursions in Modern Mathematics*"

Optional: Take [Chapter 10 Terminology Quiz](#)

Skim the [Chapter 10 Study Guide](#)

Print the [Introduction to Sequences worksheet](#) and the [Growth Models worksheet](#) before viewing the Sequences and Growth Models video

View [Sequences and Growth Models video](#)

Work homework problems #1-8, 19-24 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter ME-3, section ME-3A and ME-3B exercises.

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 18. Day 18 - July 1

View the [Linear and Exponential Growth video](#)

Print the [Addition Practice worksheet](#) and the [Crime Predictions worksheet](#) before viewing the Addition Practice video

View the [Addition Practice video](#)

Make arrangements with your proctor to take Exams 2a and 2b (Day **). [*You do have some flexibility in setting this date. But falling behind is a recipe for failure.*]

Work homework problems #9-18, 25, 26, 57, 58, 61 from text

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 19. Day 19 - July 2

Print the [Compound Interest worksheet](#) and the [100% Interest worksheet](#) to be used with the Compound Interest video

View the [Compound Interest video](#)

Optional: View another compound interest [video](#). And, another [video](#) on this topic. And still another [video](#) on daily compounding.

Optional: Adding terms in a geometric sequence [video](#) (don't let it confuse you too much).

Optional: If you are interested in learning about installment loans, you can watch this [video](#).

Work homework problems #27-32, 35-44, 59, 60, 62, 63 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 10, section 10C exercises.

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 20. Day 20 - July 3

Print the [Logistic Growth Problems worksheet](#) to be used with the Logistic Growth video

Optional: Open the [Logistic Growth Excel spreadsheet](#) for use with the video [*For best results, choose "Save" rather than "Open" option.*]

View the [Logistic Growth video](#)

Optional: Take [Chapter 10 Practice Quiz 1 \(Repeatable!\)](#)

Work homework problems #45-54, 55, 72 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter ME-3, section ME-3C exercise.

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 21. Day 21 - July 6

Print [Additional Examples worksheet](#) to be used with Additional Examples video

View [Additional Examples video](#)

Optional: Print and review [Saving for a Car handout](#) and [Shedding Light worksheet](#)

Optional: [Answers to Shedding Light worksheet](#)

Optional: Take [Chapter 10 Practice Quiz 2](#)

Optional: Take [Chapter 10 Practice Quiz 3](#)

Work homework problems #64-67, 71 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter ME-3, section ME-3D exercises.

*Assessment: Take [Chapter 10 Walking Quiz](#). You get three attempts (keep the highest score)

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 22. Day 22 - July 7

Review the [Chapter 10 Study Guide](#)

Optional: Try the [Snowflake Curve worksheet](#) [challenging!]

Optional: [Answers to the Snowflake Curve worksheet](#)

*Assessment: Take [Chapter 10 Jogging Quiz](#)

Review Chapters 9 and 10

Optional: Take [Practice Exam 2 \(Chapters 9 and 10\)](#)

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 23. Day 23 - July 8

*Assessment: Take [Exam 2a](#) and [Exam 2b](#). [*Note: This is a proctored exam. You should plan to bring a scientific calculator for use on this exam.*]

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 24. Day 24 - July 9

Optional: Review the concepts of locating ordered pairs in the Cartesian plane and slope. At www.interactmath.com, try

(a) Blair/Tobey/Slater, Prealgebra 4ed, chapter 9, section 9.3 (objectives: Plot points give the coordinates & Name the coordinates of points) exercises to review ordered pairs

(b) Lehmann, Elementary Algebra: Graphs and Authentic Applications, chapter 3, section 3.3 (objectives: Find a slope given two points & Find a slope given a graph) exercises to review slope.

Read Chapter 11 in text "*Excursions in Modern Mathematics*"

Optional: Take [Chapter 11 Terminology Quiz](#)

Skim the [Chapter 11 Study Guide](#)

Optional: View an introduction to chapter 11 [video](#).

View [Introduction to Symmetry video](#)

Print [Translations worksheet](#) (used with *Translations* video)

View [Translations video](#)

Optional: View this [video](#) to better understand translations.

Try this [applet](#) (requires Java) to better understand translations.

Work homework problems #21-26, 65 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 11, section 11C exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 25. Day 25 - July 10**

Optional: View [Introduction to Reflections video](#)

Print [Reflections worksheet](#) (to use with Reflections video)

View [Reflections video](#)

Optional: Get a better qualitative feeling for how reflections work using this [applet](#)

Optional: Experiment with Dr. Buske's [Reflection applets](#)

Print [Glide Reflections worksheet](#) (to use with Glide Reflections video)

View [Glide Reflections video](#)

Optional: View this [video](#) to better understand glide reflections.

Work homework problems #1-10, 27-34, 57, 64, 66 from text

Optional: At www.interactmath.com, try Tannenbaum 7th ed, chapter 11, section 11A and 11D exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 26. Day 26 - July 13**

Print [Rotations worksheet](#) (to use with Rotations video)

View [Rotations video](#)

Optional: View a [video](#) to better understand rotations.

Optional: Get a better qualitative understanding of how translations, reflections, and rotations can be

combined by using this [applet](#)

Work homework problems #11-20, 55, 56, 58, 59 from text

Optional: At www.interactmath.com, try Tannenbaum 7ed, chapter 11, section 11B exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 27. Day 27 - July 14**

Print [Symmetry Types worksheet](#) (to use with Symmetry Types video)

View [Symmetry Types video](#)

Optional: View another [video](#) discussing symmetry types.

Optional: View yet another [video](#) on symmetry types. This [video](#) goes with the previous one too.

Work homework problems #35-46 from text

Optional: At www.interactmath.com, try Tannenbaum 7ed, chapter 11, section 11E exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 28. Day 28 - July 15**

Print [Border Patterns worksheet](#) (to use with Border Patterns video)

View [Border Patterns video](#)

Optional: View another [video](#) on Border Patterns.

Work homework problems #49-54, 70 from text

Optional: At www.interactmath.com, try Tannenbaum 7ed, chapter 11, section 11F and 11G exercises.

Take [Chapter 11 Practice Quiz 1](#)

*Assessment: Take [Chapter 11 Walking Quiz](#). Be sure to print it out right after you start. It will make the quiz easier to take.

Optional: Make arrangements to take Exam 3a (chapter 11) with your proctor on Day 30.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 29. Day 29 - July 16**

Optional: Take [Chapter 11 Practice Quiz 2](#)

Work homework problems #68, 69, 71, 73 from text

Review [Chapter 11 Study Guide](#)

*Assessment: Take [Chapter 11 Jogging Quiz](#). Be sure to print it out right after you start. It will make

the quiz easier to take.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 30. Day 30 - July 17**

Read Chapter 15 in text "*Excursions in Modern Mathematics*"

Optional: Take [Chapter 15 Terminology Quiz](#)

Skim the [Chapter 15 Study Guide](#)

View an introductory [video](#) for chapter 15.

View [Multiplication Rule, Permutations, and Combinations video](#)

View a example of the mulitplication rule in this [video](#). Here, too, is a related example on [video](#).

Optional: Read [Dr. Math's website on permutations and combinations](#)

Work homework problems #9-18, 23-34 from text

Optional: At www.interactmath.com, try

(a) Tannenbaum 7ed, chapter 15, section 15B and 15C exercises

(b) Blitzer: Thinking Mathematically 4ed, chapter 11, section 11.1, 11.2, and 11.3 exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 31. Day 31 - July 20**

View a [video](#) on sample space. Then, view another [video](#) on this idea. And, yet another related [video](#) on sample spaces.

View [Probability Definitions video](#)

Optional: Read [Dr. Math's Introduction to Probability](#)

Work homework problems #1-8, 35-45 from text

Optional: At www.interactmath.com, try

(a) Tannenbaum 7ed, chapter 15, section 15A and 15D exercises

(b) Blitzer: Thinking Mathematically 4e, chapter 11, section 11.4 and 11.5 exercises

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 32. Day 32 - July 21**

View [Odds and Lotteries video](#)

Optional: [Experiment](#) playing "Let's Make a Deal" using two different strategies (stick or switch). Click on the strategy button to see the (surprising?) answer.

Optional: [Experiment](#) with a simple spinner. Make Red and Orange 3, Green 2, and Yellow and Purple each 1. Spin the spinner 500 times. How many times should each outcome occur?

View a [video](#) on calculating probabilities. View another [video](#) on events.

Work homework problems #47-57, 59-62 from text

Optional: At www.interactmath.com, try Tannenbaum 7ed, chapter 15, section 15E and 15G exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 33. Day 33 - July 22**

Print [Probability Examples worksheet](#) to be used with Probability Examples video

View [Part 1 of Probability Examples video](#)

View [Part 2 of Probability Examples video](#)

Work homework problems #63, 66, 67, 70, 71-80 from text

Optional: At www.interactmath.com, try Tannenbaum 7ed, chapter 15, section 15F and 15H exercises.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 34. Day 34 - July 23**

Print the [Is It Fair? worksheet](#) for use with the Is It Fair? video

View [Is It Fair? video](#)

View [Yahtzee](#) video

View a introductory [video](#) on counting.

View [Poker](#) video

Select either the [Funky Yahtzee project](#) or the [Funky Poker project](#) and begin work on this [though it can wait, any work you do on this now can't hurt when it comes to Exam III]

Optional: Take [Chapter 15 Practice Quiz 1](#)

Optional: Take [Chapter 15 Practice Quiz 2](#)

*Assessment: Take [Chapter 15 Walking Quiz](#)

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 35. Day 35 - July 24**

Optional: Take [Chapter 15 Practice Quiz 3](#)

Review [Chapter 15 Study Guide](#)

*Assessment: Take [Chapter 15 Jogging Quiz](#)

Review Chapters 11 and 15

Optional: Take [Practice Exam III \(Chapters 11 and 15\)](#)

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 36. Day 36 - July 27**

*Assessment: Take [Exam 3a](#) and [Exam 3b](#). [*Note: This is a proctored exam. You should plan to bring a scientific calculator for use on this exam.*]

Though there isn't a fixed due date, it would be wise to [submit the project](#) at this point or soon hereafter.

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 37. Day 37 - July 28**

Read Chapter 13 in text "*Excursions in Modern Mathematics*"...pay special attention to the terminology in this chapter (see Key Concepts on page 467)

Optional: Take [Chapter 13 Terminology Quiz](#)

Skim the [Chapter 13 Study Guide](#)

View an introduction to chapter 13 on [video](#).

View [The Population video](#)

View a [video](#) on the Literary Digest Poll of 1936.

Here is another [video](#) on samples and populations.

The [St. Cloud Times](#) hosts an Interactive online Daily Poll on the frontpage of the online version of its newspaper. Check out today's Daily Poll at the website, carefully describe the content and methodology of the poll, and post your thoughts regarding the validity of the results [here](#).

**MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 38. Day 38 - July 29**

View [Introduction to Surveys video](#)

Optional: Download and/or print [Sampling Statistics and Population Parameters worksheet](#) for use with Sampling Statistics and Population Parameters video

View [Sampling Statistics and Population Parameters](#) video

View short video on [Bias in Survey Wording](#)

View [video](#) on capture-recapture technique.

Optional: View [Use of word statistic from local advertisement](#)

Optional: View [a survey from a central Minnesota Congresswoman](#). The survey was mailed to my wife (a Republican??). Flaws with this survey technique are numerous. The wording, voluntary response, selection bias, etc.

Work homework problems #1-28 from text

Optional: At www.interactmath.com, try Tannenbaum 7ed, chapter 13, section 13A exercises.

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 39. Day 39 - July 30

Optional: Download and/or print [Experiments worksheet](#) for use with Clinical Studies video

View [Clinical Studies](#) video

View [video](#) on the Polio Vaccine trials.

Optional: Read USA Today story from December 2008 on [The Placebo Effect](#)

Optional: Take [Chapter 13 Practice Quiz 1](#)

Work homework problems #29-54 from text

Optional: At www.interactmath.com, try Tannenbaum 7ed, chapter 13, section 13C exercises.

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 40. Day 40 - July 31

View [More on Surveys & Polls](#) video

View [More on Sampling Methods](#) video

Optional: At www.interactmath.com, try Tannenbaum 7ed, chapter 13, section 13B and 13D exercises

Optional: Take [Chapter 13 Practice Quiz 2](#)

Optional: Take [Chapter 13 Practice Quiz 3](#)

*Assessment: Take [Chapter 13 Walking Quiz](#)

Work homework problems #55, 56, 58-60 from text

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 41. Day 41 - August 3

Make arrangements with your proctor to take Exam 4a and Exam 4b (Day 47). [*Remember, you do have some flexibility in setting this date. However, it is likely that very few dates remain to take exams.*]

Optional: Take [Chapter 13 Practice Quiz 4](#)

Optional: Take [Chapter 13 Practice Quiz 5](#)

*Assessment: Take [Chapter 13 Jogging Quiz](#)

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 42. Day 42

i»¿ Read Chapter 14 in text "*Excursions in Modern Mathematics*"

*Assessment: Take [Chapter 14 Terminology Quiz](#)

Skim the [Chapter 14 Study Guide](#)

View a first introductory [video](#) to chapter 14.

View [Introduction to Descriptive Statistics](#) video [\[.ppt\]](#)

Here is a [graphic](#) from a mailing received from T. Rowe Price. Is it misleading?

Economists often define middle-income as falling between 75 percent and 150 percent of the Census Bureau's national median. For a family of three -- which is close to the typical American household -- that translates into income of \$45,000 to \$90,000. What mathematical questions might you ask based on this statement? Feel free to comment on the Discussion board.

Work homework problems #1, 2, 5, 6, 11-17, 19-22 from text

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 43. Day 43

View a [video](#) on computing averages. Yes, averages!

Print the [Playing with Dr. Buske's Age worksheet](#) for use with the Playing with Dr. Buske's Age video (ignore pages 2 and 3 if you like...they are just review)

View [Playing with Dr. Buske's Age](#) video

Work homework problems #23-46 from text

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan - 44. Day 44

i»¿

View a [video](#) on finding percentiles. Then, view this [video](#) on finding a five-number summary.

View a [video](#) on computing standard deviation.

Print [Additional Examples worksheet](#) for Additional Examples from Chapter 14 video

View [Additional Examples from Chapter 14](#) video

Print [chapter 14 online homework](#) and start working on it

Optional: Take [Chapter 14 Practice Quiz 1](#)

Optional: [Play with this applet](#) illustrating the concept of standard deviation.

Work homework problems #47-64 from text

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 45. Day 45

Optional: Take [Chapter 14 Practice Quiz 2](#)

*Assessment: Submit [chapter 14 online homework](#)

Work homework problems #65, 66, 68, 70, 77-78, 80 from text

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 46. Day 46

Review [Chapter 14 Study Guide](#)

*Assessment: Take [Chapter 14 Problems Quiz](#)

*Assessment: Take [Chapter 14 Online Quiz](#)

Review Chapters 13 and 14

Optional: Take [Practice Exam IV \(Chapters 13 and 14\)](#)

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 47. Day 47

*Assessment: Take [Exam IV - Chapters 13 and 14](#). [*Note: This is a proctored exam. You should plan to bring a scientific calculator for use on this exam.*]

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 48. Day 48

Print and spend the day on [partial course review](#) (w/ answers).

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 49. Day 49

Print and spend the day on [another course review](#) (w/ answers).

MATH 193 online - Mathematical Thinking - Buske - Summer 2009 - Module II. Day by Day Plan
- 50. Day 50

*Assessment: Take [Final Examination](#). [*Note: This is a proctored exam. You should plan to bring a scientific calculator for use on this exam.*]

Please, please take the time to fill out both the [Course Evaluation](#) and the [Instructor Evaluation](#). These are incredibly valuable to me in making changes to the course going forward.

*Final Grades are usually available within 24 hours of the submission of your final exam (often much sooner!). Feel free to email me with questions.