1) **Welcome:** I, Terry Green, your Math 20 teacher for the spring semester of 2003, am thrilled to have you as a student! I am on your side and I really want you to learn Intermediate Algebra so well that you can successfully move on to the next level and beyond!

2) **Course Outline for Math 20:** These pages of information contain the guidelines for this course and should be read carefully so you will know what is expected of you. They contain information about attendance, grades, homework, exams, etc.

3) **Information about your Instructor:**
   - **My Name:** Terry Green
   - **My SMC Telephone #:** (310) 434-4728
   - **My SMC E-Mail Address:** green_terry@smc.edu
   - **My SMC Web page:** http://homepage.smc.edu/green_terry/
   - **My Office Hours:** In MC 40e on Monday, Wednesday, + Thursday 3:15-4:15
   - **My Math 20 Study Group:** Mon and Wed 11:00-12:00 (Room to be announced)

4) **Textbooks:**
   - **The required textbook for Math 20 you must purchase:**
     - *Intermediate Algebra for College Students 3rd Edition* by Robert Blitzer
   - **The solutions manual for Math 20 which I strongly recommend you purchase:**

5) **Materials you need to purchase for this course at our SMC bookstore or elsewhere:**
   - A) 1 notebook for the notes you will take every day in this class
   - B) 5 small blue books for exams
   - C) 1 large blue book for the final examination
   - D) 6 SCANTRON Sheets Form #882-ES LOVAS which are the answer sheets for the exams. Look in the bookstore for SCANTRON Sheets for Bowles and Hong.
   - E) Quite a few regular #2 pencils for math work and a ruler for graphing
   - F) 1 folder to submit your homework packages which are turned in on exam day.
   - G) 1 scientific calculator if you do not already own one. We will use them extensively when we study Exponential + Logarithmic Functions. The Casio fx-115W series is inexpensive and easy to use but the Texas Instruments and Sharpe companies also make affordable scientific calculators as well.

6) **Calculator Policy:** Scientific calculators are valuable tools to help you learn mathematics. In terms of exams, they can only be used on the 5th exam and on the final.
7) **Prerequisites for Math 20:** You should have completed Math 31 or Math 31(T) Elementary Algebra with a grade of C or better. Or you should have a score on the SMC placement test that allows you to take Math 20.

8) **Tardiness Policy:** I watched on television where Dr. Phil explained that when people are late, they are being thoughtless of others. I imagine you show up for work on time and so I am expecting you to show up on time to my class as well!

9) **Cell Phone and Beeper Policy:** When they go off in class, it is truly annoying not only to your fellow students but to your instructor as well. Turn them off!

10) **Attendance Policy:** I am expecting that you will attend every class session because at every class meeting we will cover important concepts and applications. If you are absent more than four times, or the equivalent of one week of instruction, you may be withdrawn from the class.

If you are absent for a class session, you do not need to contact me. If you are going to be absent for an extended period of time because of illness or causes beyond your control, you can easily leave me a message on my SMC voice mail (310) 434-4728 or e-mail me at green_terry@smc.edu to let me know what is happening. I usually do not call or write back because I know I will see you when you return to class.

11) **Withdrawal Policy:** You can get a “W” in this course on your own at our SMC administration office any time during the first 8 weeks of the semester. The absolute last week I can give you a “W” is during the 12th week so if you would prefer to get a “W” during that week, you must communicate directly with me. After the 12th week, you are unable to withdraw.

12) **Grades:** Your spring semester grade will be determined as follows:
   A) Your best 4 out of 5 exams are worth 60% of your grade or 600 points.
   B) Your final exam is worth 30% of your grade or 300 points.
   C) Your homework is worth 10% of your grade or 100 points.
   D) Thus, at the end of the semester you could have a total of 1,000 points.

13) **How your final grade is determined in June is according to your final total:**
   A) If your total is 895 points or more, (89.5% or more), you will earn an A.
   B) If your total is 795 to 894 points (79.5% to 89.4%), you will earn a B.
   C) If your total is 695 to 794 points (69.5% to 79.4%), you will earn a C.
   D) If your total is 0 to 694 points (0% to 69.4%, you will earn a D.

14) **Additional Information about Grades:**
Because I consider homework so critical to your learning mathematics, if you do not complete and submit the majority of it, the highest grade you will be able to receive no matter how many points you have earned will be a D. Furthermore, if you fail the final (less than 50%) your grade will be a D no matter what your point total.
15) **Homework:** As mentioned above, homework is critical to your learning Intermediate Algebra. You are expected to work on the sections taught in class as soon after they are taught as possible. You will collect your homework assignments and turn them in as a package the day of each exam. 5 homework packages and the practice final will be collected. You should do your homework packages as completely and as accurately as possible always attempting to do your very best quality work. Recall that the homework packages are worth 10% of your grades or 100 points.

16) **More about Homework:**
   
   A) Use pencil rather than pen to do your homework packages so you can take advantage of the eraser!
   
   B) The first page of your homework package must be the Table of Contents of that particular homework package. You should Xerox the following package lists and check off the assignments you completed. You **MUST** number your pages of your package **LIKE ANY BOOK** so that it is easy for me to find your various assignments.
   
   C) Show all your work. Answers alone are unacceptable and your homework package will be returned un-graded if you simply submit just the answers. If your work looks like all you did was copy from the solutions manual, your work will be un-graded as well. The solutions manual is a tool to help you learn and should not be misused.
   
   D) Clearly mark each homework assignment that you complete at the top of the page so that you can turn in your work in an organized fashion from the first assignment in the package to the last. For example, after the table of contents in the first package, would come assignments from the sections in Chapter 1. Then you would have the Chapter 1 Review Problems and then you would begin the Chapter 2 assignments. Any extra credits would be at the end of the homework package in the order listed in the Table of Contents.
   
   E) When you start a new assignment, use a new piece of paper. Use both sides of the paper to save our forests!
   
   F) Work top down in an orderly fashion showing your steps. Try to arrange your work so that anyone else could easily understand what you are trying to do. Note your final answer to each problem.
   
   G) The answers to all problems assigned other than a few can be found at the back of the book. Use it as a resource to check your work for accuracy and if you find you have an error, try the problem again. If you are still having trouble, get assistance in the math lab or from a friend or family member.
   
   H) Turn in your homework package in a folder with your name clearly written on the Table Of Contents. The folder should easily open and the Table Of Contents should be the first page I see. Please do not use the type of folder where all of the pages have to be taken out of the folder for me to see them.
   
   I) Submit only one homework package in a folder and take out any homework packages that have been previously graded.
17) Which Homework Problems to do:
   A) Every other odd (EOO) are problems 1,5,9,13,17, etc. Just add 4!!

18) Helpful Hints To Be Successful in Math 20:
   A) **Attend class on a regular basis.** Statistics prove that students who attend class on a regularly have much greater success since learning mathematics is a step-by-step process. Every time you miss class, you are missing vital information that will make it difficult to grasp later mathematical concepts.
   B) **Be involved in the class.** Math is not a spectator sport! Be an active listener and take good notes, writing down key ideas and examples that are presented. Ask questions when you are unclear about different mathematical ideas.
   C) **Preview new material.** Before going to class, look over the sections your instructor is going to explain the next day. This will help you have some idea what is to come and allow you to consider possible questions you might wish to raise in class.
   D) **Take time to do your homework and do it soon after it has been explained.** Mathematics can be a lot of fun when you understand what you are doing!
   E) **Stay up with the class.** When you get behind in a math class, disaster is sure to happen!
   F) **Make friends in class.** Classmates can make great study partners, take notes for you when you miss class and encourage you when you may be struggling. In fact, studies indicate people who work together to learn mathematics usually are more successful.
   G) **Seek assistance.** Sometimes, even when you attend class regularly, take careful notes, study your textbook and do all the homework, you still find that you do not understand certain concepts. If this happens visit your instructor during his office hours for help or go to the math lab to get help from an instructional assistant or tutor. Sometimes a different approach from an outside source may help clarify concepts you may be having difficulty understanding.
   H) **Be neat, accurate and well organized.** You should always attempt to do quality work on all homework packages and exams.
   I) **Never give up!** An interesting characteristic of learning mathematics is that at one moment you may be totally confused, and then suddenly the light bulb goes on and you understand the material! Some mathematical ideas take awhile to digest and you might find after a few days of working some of the problems related to those ideas that they actually do make sense!
   J) **Prepare for your exams.** In math courses, your show whether you know the material on exams. Study for exams by doing any practice exams provided by your instructor.
   K) **Congratulate yourself when you learn new material!** As you learn new concepts, point out to yourself what you have learned so that your confidence in your mathematical ability will increase.
Packagex #1 – Due Tuesday, March 4th, 2003

Check off each assignment you complete in the left-hand space provided, or highlight each assignment completed. Of course, you are going to complete all of them! Also fill in the page numbers from your homework on your Xeroxed copy of this Table of Contents!

Note #1: The date listed is the tentative date the assignment will be explained.
Note #2: Your page number is the page number in your homework package of your work, not the page numbers in the book where the homework problems are!
Note #3: Chapter review exercises are to be done as soon as all of the chapter assignments are completed. It is important to do these review exercises in order to really learn the concepts and applications being presented in each of the chapters.

Chapter 1: Algebra, Mathematical Models, and Problems Solving

1.1 Algebraic Expressions + Real Numbers (1-93 EOO) F18: Your Page 
1.2 Operations With Real Numbers (1-149 EOO) FEB 18: Your Page 
1.3 Graphing Equations (1-49 EOO) FEB 18: Your Page 
1.4 Solving Linear Equations (1-65 EOO) FEB 19: Your Page 
1.5 Problem Solving and Using Formulas (1-65 EOO) FEB 20: Your Page 
1.6 Properties of Integral Exponents (1-117 EOO) FEB 24: Your Page 
1.7 Scientific Notation (1-65 EOO) FEB 24: Your Page 
Chapter 1 Review Exercises (1-97 EOO) Your Page 

Chapter 2: Functions and Linear Functions

2.1 Introduction to Functions (1-73 EOO) FEB 25: Your Page 
2.2 The Algebra of Functions (1-61 EOO) FEB 25: Your Page 
2.3 Linear Functions and Slope (1-85 EOO) FEB 26: Your Page 
2.4 Point-Slope Form (1-69 EOO) FEB 27: Your Page 
Chapter 2 Review Exercises (1-53 EOO) Your Page 

Extra Credits to be placed in your homework package in the following order after the Chapter 2 Review Exercises:

A) PRACTICE EXAM A LA GREEN #1 (ON WEBSITE) V: 2 P# 
B) CHAPTER 1 TEST IN BOOK (ALL) Value: 1 P# 
C) CHAPTER 2 TEST IN BOOK (ALL) Value: 1 P# 
D) CUMULATIVE REVIEW AT END OF CHAP 2 (ALL) V: 1 P# 
E) ALL CHECK POINTS IN EACH SECTION V: 5 P#

We will review Chapters 1-2 on March 3rd. Exam #1 on Chapters 1-2 is scheduled for Tuesday, March 4th. Homework Package #1 is due the same day!!!
Package #2 – Due Monday, March 24\textsuperscript{th}, 2003

Check off each assignment you complete in the left-hand space provided, or highlight each assignment completed. Of course, you are going to complete all of them! Also fill in the page numbers from your homework on your Xeroxed copy of this Table of Contents!

Note #1: The date listed is the tentative date the assignment will be explained.
Note #2: Your page number is the page number in your homework package of your work, not the page numbers in the book where the homework problems are!
Note #3: Chapter review exercises are to be done as soon as all of the chapter assignments are completed. It is important to do these review exercises in order to really learn the concepts and applications being presented in each of the chapters.

**Chapter 3: Systems of Linear Equations**

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Due Date</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.1 Systems in Two Variables (1-97 EOO)</td>
<td>MAR 5:</td>
<td>Your Page #</td>
</tr>
<tr>
<td>3.2 Problem Solving + Applications (1-45 EOO)</td>
<td>MAR 6:</td>
<td>Your Page #</td>
</tr>
<tr>
<td>3.3 Systems in Three Variables (1-37 EOO)</td>
<td>MAR 10:</td>
<td>Your Page #</td>
</tr>
<tr>
<td>3.4 Matrix Solutions to Linear Equations (1-45 EOO)</td>
<td>MAR 11:</td>
<td>Your Page #</td>
</tr>
<tr>
<td>Chapter 3 Review Exercises (1-37 EOO)</td>
<td></td>
<td>Your Page #</td>
</tr>
</tbody>
</table>

**Chapter 4: Inequalities and Problem Solving**

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Due Date</th>
<th>Page Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1 Solving Linear Inequalities (1-77 EOO)</td>
<td>MAR 12:</td>
<td>Your Page #</td>
</tr>
<tr>
<td>4.2 Compound Inequalities (1-65 EOO)</td>
<td>M 12:</td>
<td>Your Page #</td>
</tr>
<tr>
<td>4.3 Equations + Inequalities in Two Variables (1-85)</td>
<td>M 17:</td>
<td>Your Page #</td>
</tr>
<tr>
<td>4.4 Linear Inequalities in Two Variables (1-45 EOO)</td>
<td>M 18:</td>
<td>Your Page #</td>
</tr>
<tr>
<td>4.5 Linear Programming (1-15 ODDS)</td>
<td>M 19:</td>
<td>Your Page #</td>
</tr>
<tr>
<td>Chapter 4 Review Exercises (1-57 EOO)</td>
<td></td>
<td>Your Page #</td>
</tr>
</tbody>
</table>

Extra Credits to be placed in your homework package in the following order after the Chapter 4 Review Exercises:

A) PRACTICE EXAM A LA GREEN #2 (ON WEBSITE) V: 2 P# _______
B) CHAPTER 3 TEST IN BOOK (ALL) Value: 1 P# _______
C) CHAPTER 4 TEST IN BOOK (1-24 ALL) Value: 1 P# _______
D) CUMULATIVE REVIEW AT END OF CHAP 3 (ALL) V: 1 P# _______
E) CUMULATIVE REVIEW AT END OF CHAP 4 (ALL) V: 1 P# _______
F) ALL CHECK POINTS IN EACH SECTION V: 5 P# _______

We will review Chapters 3-4 on March 20\textsuperscript{th}. Exam #2 on Chapters 3-4 is scheduled for Monday, March 24\textsuperscript{th}. Homework Package #1 is due the same day!!!
Package #3 – Due Wednesday, April 23rd, 2003

Check off each assignment you complete in the left-hand space provided, or highlight each assignment completed. Of course, you are going to complete all of them! Also fill in the page numbers from your homework on your Xeroxed copy of this Table of Contents!

Note #1: The date listed is the tentative date the assignment will be explained.
Note #2: Your page number is the page number in your homework package of your work, not the page numbers in the book where the homework problems are!
Note #3: Chapter review exercises are to be done as soon as all of the individual assignments are completed. It is important to do these review exercises in order to really learn the concepts and applications being presented in each of the chapters.

**Chapter 5: Polynomials, Polynomial Functions, and Factoring**

- 5.1 Polynomials + Polynomial Functions (1-73 EOO) M 25: Your Page #
- 5.2 Multiplication of Polynomials (1-105 EOO) M 25: Your Page #
- 5.3 Gcf’s + Factoring by Grouping (1-73 EOO) M 26: Your Page #
- 5.4 Factoring Trinomials (1-101 EOO) M 27: Your Page #
- 5.5 Factoring Special Forms (1-97 EOO) April 1: Your Page #
- 5.6 A General Factoring Strategy (1-61 EOO) April 1: Your Page #
- 5.7 Polynomial Equations + Applications (1-81 EOO) A 2: Your Page #
- Chapter 5 Review Exercises (1-97 EOO) Your Page #

**Chapter 6: Rational Expressions, Functions, and Equations**

- 6.1 Multiplying and Dividing (1-109 EOO) A 3: Your Page #
- 6.2 Adding and Subtracting (1-77 EOO) A 7: Your Page #
- 6.3 Complex Rational Expressions (1-41 EOO) A 8: Your Page #
- 6.4 Division of Polynomials (1-37 EOO) A 8: Your Page #
- 6.5 Synthetic Division (1-31 ODDS) A 9: Your Page #
- 6.6 Rational Equations (1-49 EOO) A 10: Your Page #
- 6.7 Formulas + Applications (1-45 EOO) A 21: Your Page #
- 6.8 Modeling Using Variation (1-25 ODDS) A 21: Your Page #
- Chapter 6 Review Exercises (1-69 EOO) Your Page #

Extra Credits to be placed in your homework package in the following order after the Chapter 6 Review Exercises:

- A) PRACTICE EXAM A LA GREEN #3 (ON WEBSITE) V: 2 P#_
- B) CHAPTER 5 TEST IN BOOK (ALL) Value: 1 P#
- C) CHAPTER 6 TEST IN BOOK (ALL) Value: 1 P#
- D) CUMULATIVE REVIEW AT END OF CHAP 5 (ALL) V: 1 P#
- E) CUMULATIVE REVIEW AT END OF CHAP 6 (ALL) V: 1 P#
- F) ALL CHECK POINTS IN EACH SECTION V: 5 P#

We will review Chapters 5-6 on April 22nd. Exam #3 on Chapters 5-6 is scheduled for Wednesday, April 23rd. Homework Package #3 is due the same day!
Package #4 – Due Thursday, May 15, 2003

Check off each assignment you complete in the left-hand space provided, or highlight each assignment completed. Of course, you are going to complete all of them! Also fill in the page numbers from your homework on your Xeroxed copy of this Table of Contents!

Note #1: The date listed is the tentative date the assignment will be explained.
Note #2: Your page number is the page number in your homework package of your work, not the page numbers in the book where the homework problems are!
Note #3: Chapter review exercises are to be done as soon as all of the chapter assignments are completed. It is important to do these review exercises in order to really learn the concepts and applications being presented in each of the chapters.

Chapter 7: Radicals, Radical Functions, and Rational Exponents

7.1 Radical Expressions and Functions (1-97 EOO) A 24: Your Page #
7.2 Rational Exponents (1-113 EOO) A 24: Your Page #
7.3 Multiplying + Simplifying Radicals (1-85 EOO) A 28: Your Page #
7.4 Adding, Subtracting + Dividing (1-69 EOO) A 29: Your Page #
7.5 Mult. With More Than One Term (1-97 EOO) A 30: Your Page #
7.6 Radical Equations (1-53 EOO) MAY 1: Your Page #
7.7 Complex Numbers (1-117 EOO) MAY 5: Your Page #
Chapter 7 Review Exercises (1-101 EOO) Your Page #

Chapter 8: Quadratic Equations and Functions

8.1 The Square Root Property (1-81 EOO + 82) MAY 6: Your Page #
8.2 The Quadratic Formula (1-77 EOO) MAY 7: Your Page #
8.3 Quadratic Functions (1-53 EOO + 55-56) MAY 8: Your Page #
8.4 Equations Quadratic in Form (1-37 EOO) MAY 12: Your Page #
8.5 Quadratic + Rational Inequalities (1-41, 43 EOO) MAY 13: Your Page #
Chapter 8 Review Exercises (1-49 EOO) Your Page #

Extra Credits to be placed in your homework package in the following order after the Chapter 8 Review Exercises:

A) PRACTICE EXAM A LA GREEN #4 (ON WEBSITE) V: 2 P#___
B) CHAPTER 7 TEST IN BOOK (ALL) Value: 1 P#___
C) CHAPTER 8 TEST IN BOOK (ALL) Value: 1 P#___
D) CUMULATIVE REVIEW AT END OF CHAP 7 (ALL) V: 1 P#___
E) CUMULATIVE REVIEW AT END OF CHAP 8 (ALL) V: 1 P#___
F) ALL CHECK POINTS IN EACH SECTION V: 5 P#___

We will review Chapters 7-8 on May 14th. Exam #4 on Chapters 7-8 is scheduled for Thursday, May 15th. Homework Package #4 is due the same day!
Package #5 – Due Wednesday, June 5th, 2003

Check off each assignment you complete in the left-hand space provided, or highlight each assignment completed. Of course, you are going to complete all of them! Also fill in the page numbers from your homework on your Xeroxed copy of this Table of Contents!

Note #1: The date listed is the tentative date the assignment will be explained.  
Note #2: Your page number is the page number in your homework package of your work, not the page numbers in the book where the homework problems are!  
Note #3: Chapter review exercises are to be done as soon as all of the chapter assignments are completed. It is important to do these review exercises in order to really learn the concepts and applications being presented in each of the chapters.

Chapter 9: Exponential and Logarithmic Functions  
— 9.1 Exponential Functions (1-57, 58 EOO)  MAY 19: Your Page #  
— 9.2 Composite + Inverse Functions: (1-57, 67 EOO)  M 20: Your Page #  
— 9.3 Logarithmic Functions (1-69, 71, 75, EOO)  MAY 21: Your Page #  
— 9.5 Exponential + Logarithmic Functions (1-89 EOO)  M 27: Your Page #  
— 9.6 Exponential Growth + Decay (1-25 ODDS)  M 28: Your Page #  
— Chapter 9 Review Exercises (1-77 EOO, 79)  Your Page #

Chapter 10: Conic Sections and Systems of Nonlinear Equations  
— 10.1 Distance + Midpoint Formulas (1-57 EOO)  MAY 29: Your Page #  
— 10.4 The Parabola (1-53 EOO)  J 2: Your Page #  
— 10.5 Systems of Nonlinear Equations (1-27 ODDS)  J 3: Your Page #  
— Chapter 10 Review Exercises (1-9, 23-25, 43-49 ODDS)  Your Page #

Extra Credits to be placed in your homework package in the following order after the Chapter 10 Review Exercises.

A) PRACTICE EXAM A LA GREEN #5 (ON WEBSITE)  P#  
B) CHAPTER 9 TEST IN BOOK (ALL)  P#  
C) CHAPTER 10 TEST IN BOOK (1-7,17-18 ALL)  P#  
D) CUMULATIVE REVIEW AT END OF CHAP 9 (1-24 ALL)  P#  
E) ALL CHECK POINTS IN EACH SECTION V: 5  P#

We will review Chapters 9-10 on June 4th. Exam #5 on Chapters 7-8 is scheduled for Thursday, June 5th. Homework Package #5 is due the same day!

11.1 Summation Notation (17-47 ODDS) + PRACTICE FINAL Monday, June 9th ...

These assignments are to be turned in the day of the final.
The Final Exam Date for the 12:45 class is Tuesday, June 10th, 12:00- 3:00.  
The Final Exam Date for the 2:00 class is Wednesday, June 11th, 3:30-6:30.