

Math 70 Intermediate Algebra II

Name _____

Spring 2018	Professor Martha Carey
Math 70-33 1:30-2:25 MW, room 342	Office: 390B
Math 70-34 1:20-3:25PM TTh, room 1685B	Phone: 421-6700 ext.5384
Office Hours:	Campus Mailbox: Room 215
11:30 AM-1:15 PM, Mondays and Wednesdays	E-mail: mcarey@swccd.edu
Review days as listed in class calendar on some Wed & Fri afternoons	Hablo Español.
and other times by appointment	

Very Important Class Website

<http://dept.swccd.edu/mcarey/>

The syllabus, calendars, class notes, grade printouts, graphing calculator tutorials, study skills assignments, class expectations, office hours and appointments, and other class information are on the class website. Bookmark this address in your devices, because you will need it frequently.

Syllabus is composed of the following documents, which can all be found on the class website:

- Syllabus00 Cover Sheet
- Syllabus01 Office Hours and Appointments
- Syllabus02 Success Strategies, Tutoring, and DSS
- Syllabus03 Required, Optional, and Recommended Materials
- Syllabus04 Assignment Types and Grade Calculation
- Syllabus05 Attendance, Make-ups, and Active-Duty Military
- Syllabus06 Study Skills
- Syllabus07 Grade Record Sheet
- Syllabus08 Quizzes and Exams
- Syllabus09 Homework in MathXL
- Syllabus10 Expectations and Cheating Policy
- Syllabus11 Frequently Asked Questions and Grading Markings
- Syllabus12 Course Description
- Syllabus13 Calendars M70
- Syllabus14 Información para Hispanohablantes

If you come to class and study every day, you will learn how to do your homework in MathXL.

If you do homework until you can do it quickly and accurately without help or your notes, you can do the problems on the PQs.

If you can do the problems on the PQs, you make weekly study summaries, and you review your class notes, practice exams, PQs, and study summaries, you have a good start to do well on exams.

If you do well on exams, you earn a good grade in the course.

Big achievements are just groups of little achievements.

Syllabus Search (20 pts)

Write answers in EVERY blank.
Print and complete the two documents.

Name _____
Course & Section _____
This assignment is due on _____

My instructor's name (first and last) is _____. I can contact my instructor by phone at _____ or e-mail at _____.

My instructor's office location is _____

My instructor's office hours are _____

Matching my schedule with my instructor's office hours, the times that I can meet with my instructor are:

The required materials for this class are _____

For this class, I need a (circle one): scientific / graphing calculator.

Attendance policy: After the first two weeks of class, I will be dropped if

PRINT page 3 of Syllabus06 Study Skills (Self Improvement) Sp18, complete the worksheet.

PRINT only the class calendar for your section from Syllabus13 Calendars.

Staple the calendar and completed worksheet to the back of this assignment.

Cheating policy: I will earn a grade of _____ if caught cheating.

During class, my cell phone must be _____ and _____.

My goal is to earn a(n) A/B/C _____ in this course.

The grading scale will be A=_____, B=_____, C=_____

The total number of points in the class is _____.

To achieve my goal, I must earn at least _____ points by the end of the semester.

Each homework assignment is _____ points. Each PQ is _____ points. Each exam is _____ points.

Circle one: I will take a PQ every class / most every class / every week.

If my graded work says 'NA', it means _____

The final exam is worth _____ points.

I must earn at least _____% on the final exam and have at least a _____% average to pass the class.

Circle one: I can / cannot make up a quiz or exam after the class has taken it.

Circle one: I can / cannot take a quiz or exam early.

If I need help in this course, I can:

- 1) _____
- 2) _____
- 3) _____

Classmate contact information: If I need to contact a classmate from this class, I can call or email:

- 1) _____ phone _____ email _____
- 2) _____ phone _____ email _____
- 3) _____ phone _____ email _____
- 4) _____ phone _____ email _____
- 5) _____ phone _____ email _____

I, _____, verify that I have received the syllabus

Print Name

for _____.

Course and Section

I have read and understand the course requirements and policies in the syllabus and agree to abide by them.

I agree to help create and maintain a productive, safe learning environment by remembering my purpose and goals, and by choosing my behaviors to support my and others' positive involvement in and out of class.

I further agree to read my email promptly and to inform my instructor (and MathXL/MyMathLab) of any email address changes.

Student Signature

Date

COMPLETE THE COPY BELOW FOR MS. CAREY.

THE COPY ABOVE IS FOR YOUR RECORDS.

TURN IN BOTH PAGES, STAPLED AND INTACT. DO **NOT** CUT.

I, _____, verify that I have received the syllabus

Print Name

for _____.

Course and Section

I have read and understand the course requirements and policies in the syllabus and agree to abide by them.

I agree to help create and maintain a productive, safe learning environment by remembering my purpose and goals, and by choosing my behaviors to support my and others' positive involvement in and out of class.

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Student Signature

Date

YOU MUST HAVE A GRAPHING CALCULATOR FOR THIS COURSE.

You must have a graphing calculator that you can bring to class every day for this term. You will need your own calculator; you may not share with someone in this class. A graphing calculator does many more functions than a scientific calculator, so a scientific calculator is not acceptable.

The first day you will need a graphing calculator in class is **Wed Jan 31 (Math 70-33) or Thursday Feb 1 (Math 70-34)**. If necessary, borrow from a friend who is not in this class until you get your own calculator. Do not come to class unprepared.

What calculator to get

TI-83+ is recommended. TI-84+, TI-84 Silver and TI-84 C Silver are more expensive versions of the TI-83+. TI-86 or TI-83 is acceptable.

TI-85, TI-82 and TI-81 do not have all the necessary functions.

TI-89, TI-92, Voyager, TI-Nspire CAS or any calculator with algebraic manipulation capacity is never permitted. (However, TI-Nspire with a TI-84 keypad is acceptable.)

Casio, HP, or other brands are permitted if they do not do algebra.

BUT: You may have to teach yourself how to use them. Ask your instructor.

A cell phone calculator, cell phone app, or internet-enabled device is not permitted during exams or quizzes.

Places you can get a graphing calculator without paying full price

But you may need four new AAA batteries...

Who	What type	Program	Location	Cost	Return
Current tulltime EOPS students	TI-83+	EOPS	S203	Free, but first to come is the first served.	By end of term.
Any SWC student with current activities sticker	TI-83+ and TI-84+	ASO rental – main campus	Student Center, bldg 600 on the main campus	Need Student Activities sticker, \$10	By end of term
Any SWC student with current activities sticker	TI-83+ and TI-84+	ASO Rental – satellite campuses	The Higher Education Centers at Otay Mesa, San Ysidro, and National City	Need Student Activities sticker, \$10	By end of term, to the same site

To buy a NEW graphing calculator

You can buy a new graphing calculator at the SWC bookstore, Staples, Office Depot, Costco, Wal-Mart, Target, www.amazon.com, www.ebay.com or others. To buy online, type “Buy new TI-83 (or TI-84) graphing calculator” in your search engine. A typical price ranges from \$100 to \$140.

To buy a USED graphing calculator

If you buy a used graphing calculator, check that it works before paying any money. When turned on, the screen should not have any cracks or blots. (New batteries may make the screen appear uniformly dark – this is easily fixed.) If buying on-line, check the seller’s description of condition and return policy.

MESA members may borrow a TI-83+ or TI-84+ for one day only; go to room 396 with valid ID.

Math 70 Graphing Calculator (GC) Exercises

We begin Math 70 assuming that you know *nothing* about your graphing calculator and focus on the calculator the first week of class.

There are three main points of emphasis in Math 70: problem solving, graphing, and logarithms. Graphing includes learning to use a graphing calculator (GC).

Things you should know:

- GC skills will appear on every exam.
- Some exam questions test only a GC skill.
- Some exam questions will be hard and long without a GC, but easy and short with one!
- Any skill in a GC exercise could appear on an exam – even if we didn't do it in class.

When you complete this course, you should be able to

- Use your GC to look at graphs and analyze functions
- Make neat and accurate graphs on paper using math and GC
- Use your GC to do complex calculations (including fractions) easily, quickly, exactly.
- Solve a variety of word problems using formulas, tables (including on GC), and algebra.
- Know the difference between an approximate (rounded) answer and an exact one.

To help you learn to use your GC:

- 1) In-class practice
- 2) GC exercises to practice in class and at home, from print copies or from the web

GC exercises are:

- + A free GC textbook for TI-83 and TI-84 calculators!
- + Explanations of the GC (and sometimes the math)
- + Pictures of which keys to push and the GC screen when you push those keys
 - o Caution: Newer calculators will sometimes have slightly different keystrokes. Pay attention to explanations in class! [Right arrow instead of close parenthesis, for example.]
- + Example and practice problems with solutions, including graphs on paper

All GC exercises are available on the class website:

<http://dept.swccd.edu/mcarey/GC%20Exercises%20%28updated%20Sp14%29/>

- The exercises are numbered and (mostly) in the order you'll need them.
- The exercises have titles so you can look up particular topics.
- You can print them or read online.
- You need Adobe Reader (free download) or other .pdf reader on your device.

Try these problems while you are waiting.

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Are the following "True", or "False"?

1. The factored form of $a^2 + b^2$ is $(a+b)^2$.

2. $-|-4| = 4$

3. $7^0 = 0$

4. $(\frac{2}{7})^{-1} = \frac{7}{2}$

5. $\frac{x-3}{-3} = x$

6. $\frac{8}{0} = 0$

7. $k^3 \cdot k^5 = k^8$

8. $\frac{k^{12}}{k^4} = k^3$

9. $-3^2 = 9$

10. $a\left(\frac{b}{a}\right) = b$

11. $\sqrt{-4} = -2$

12. Given that $x \neq y$: $(x-y)^0 = 1$

Try these problems while you are waiting.

Are the following "True", or "False"?

1. The factored form of $a^2 + b^2$ is $(a+b)^2$. False

$$\begin{aligned} &(a+b)^2 \\ &= (a+b)(a+b) \\ &= a^2 + ab + ab + b^2 \\ &= a^2 + 2ab + b^2 \end{aligned}$$
2. $-|-4| = 4$ False neg outside
3. $7^0 = 0$ False $7^0 = 1$
4. $\left(\frac{2}{7}\right)^{-1} = \frac{7}{2}$ True
5. $\frac{x-3}{-3} = x$ False cancel only multiplied factors
6. $\frac{8}{0} = 0$ False division by zero is undefined
("You can't balance on a ball.")
7. $k^3 \cdot k^5 = k^8$ True
8. $\frac{k^{12}}{k^4} = k^3$ False subtract exponents $\frac{k^{12}}{k^4} = k^8$
9. $-3^2 = 9$ False order of operations
exponent 2 before multiply by -1.
10. $a\left(\frac{b}{a}\right) = b$ True
11. $\sqrt{-4} = -2$ False $\sqrt{-4} = 2i$ ($i = \sqrt{-1}$ not -1)
12. Given that $x \neq y$: $(x-y)^0 = 1$ True

GC Questionnaire

Please complete both sides and ask questions if needed. PLEASE PRINT.

Please do not leave any question blank (unless it's marked "optional".)

Today's Date _____

Class & Section _____

My official name is (first middle last [2nd last]) _____

I prefer to be called _____

I am registered on the wait list hoping to crash

SWC Student ID Number _____

3-5 words that always describe my appearance (to help Ms. Carey recognize me and learn my name):

I have a TI-83 TI-83+ TI-84+ TI-85 TI-86
 No Graphing Calculator yet Other _____

My skill with a graphing calculator is Excellent OK Poor/forgotten None

Anonymous code word/number I'll remember and recognize on a grade printout: [DON'T include name, nickname, initials, e-mail, SSN, or SWC ID. (Be creative!)] _____

Do not turn in this questionnaire without this!

I do do not might have a learning disability or other disability.

I will will not might use DSS (Disability Support Services).

I am am not an EOPS (Extended Opportunity Programs and Services) student.

I am am not participating in First Year Experience.

I do do not compete as an SWC athlete this semester.

I am am not repeating this class at SWC. If yes, number of times before _____

My first language is _____

Preferred e-mail address _____ (used regularly)

Preferred phone number: _____ (only used in emergency)

I have completed _____ college semesters (including summer sessions and terms at other colleges).

(continued on back)

My major is _____

I am in college because _____

I got into this class by Taking the assessment (placement) test Passing the prerequisite course(s)

My last math class was called _____

The month and year I last attended a math class were _____

I learn best when _____

I struggle in class when _____

I prefer when

- I compete with classmates
- I work cooperatively (team or group)
- Neither
- Both

I prefer when

- I am called to speak in class
- I choose whether to speak in class
- I am called to the board to do problems
- I am not called to the board

I can bring the following devices with internet capability to class: (Check all that apply.)

- laptop or tablet computer
- smartphone
- other: _____
- none

[Optional] I am worried about _____

[Optional] Questions I have about this class are _____

[Optional] Currently, my life is _____

[Optional] I'd also like to tell you _____
