MAT 122
Intermediate Algebra
Fall 2014

SLN: 37031
Classroom: CM463
Class time: Tu/Th 10:30–11:45 AM

First day of class: 8/26/14
Last day of class: 12/11/14
Final: Th 12/18 from 9:30-11:20

Instructor: Cody Anderson
Email: cody.anderson@scottsdalecc.edu

Office: CM 441 (Math/Science Center)
Office Hours:

Course description:
We will be learning fundamentals of algebra, namely what functions are and how to use them. Specifically, we will study linear, exponential, logarithmic, quadratic, radical, and rational functions. These are all important building blocks for your next math and science courses and are the foundations for pretty much every product you'll use today.

Pre-requisites: Grade of C or better in MAT090, MAT091, MAT092, MAT093 or equivalent or a satisfactory score on the District placement exam

Required Materials:
Text:
- *Intermediate Algebra Student Workbook, Scottsdale Community College, 4ᵗʰ edition*
  - available from SCC bookstore for about $30
  - must be brought to class daily in a 3-ring binder

Online Access:
- MathAS account (more details below)
- Email that you check regularly

Graphing Calculator:
- TI-83+ or TI-84; can't be on your phone, laptop, etc.

Other:
- Loose-leaf paper in your 3-ring binder
- Pencils and erasers

Grading breakdown:

Allocation:
- 10%: Mini-Lessons
- 10%: Homework
- 20%: Daily Quizzes
- 40%: Midterm Exams (3)
- 20%: Final Exam

Grades (traditional, no curve):
- $A \geq 90\%$
- $80\% \leq B < 90\%$
- $70\% \leq C < 80\%$
- $60\% \leq D < 70\%$
- $F < 60\%$

MathAS Online Account:

        The MathAS online system is a critical component of this course. It is where you will complete the online mini-lessons and homework, review for exams, access other course materials, and check your grade. It directly complements the material in your student workbook.

        YOU MUST SIGN UP ON OR BEFORE THE FIRST DAY OF CLASS. To sign into this system, go to https://mathas.scottsdalecc.edu. Log-in instructions will be emailed to you and discussed on the first day of class.

Mini Lessons and Homework:

        Mini Lessons and Homework will be completed online through MathAS. The Mini Lessons serve as an introduction to each chapter in the student workbook. They feature videos that walk you through each of the "Media Examples" contained in the student workbook. You should follow along and copy the work into your workbook. Be sure to write a couple paragraphs about what you learned for the last question of each Mini Lesson.

        The Homework for each chapter features numerous problems derived from that chapter's material. It will become available online only after the chapter's Mini Lesson is complete. For most problems, you will get three attempts at a correct answer, after which you can retry the problem with new numbers and get full credit.

        Mini Lessons and Homework will be due at the times indicated on the Course Schedule. After the due date/time has passed, they will still be available for review but not for credit. No Mini Lesson or Homework scores will be dropped.

Daily Quizzes:

        At the start of most class periods, there will be a brief Daily Quiz. This quiz will closely resemble what you have seen in the Mini Lessons. You will be able to use your notes, student workbook, and calculator during the quiz. You cannot use any other electronic device or your friend (this would result in a score of 0%). No late or make-up quizzes are allowed. The three lowest quiz grades will be dropped at the end of the semester.

Exams:

        Four exams will be given following the Course Schedule. Three of the exams are mid-term and will cover the most recent material. One will be as a final and will cover all the course material. A calculator is the only aid you can use on the exams. If you are seen with cell phones, notes, etc. you will receive a zero on the exam.

        Make-up exams will only be allowed for extreme situations beyond your control. Excuses like non-refundable airline tickets, sleeping in, or bad traffic are not legitimate. Excuses like a major illness or your car exploding would be acceptable, but they must be accompanied by a doctor's note, receipt from the mechanic, etc. Any missed exam without a legitimate excuse will receive a score of zero. Make-up exams will be given as soon as possible after the scheduled exam and before the graded exams are returned to the class. Make-up exams will have more difficult questions.

        After getting each midterm exam back and graded, you will have an opportunity to make up points. On a separate sheet of paper that is clearly marked with the problem number, you may redo each missed problem. At steps where you made a mistake on the original exam, you must write a couple sentences that explain where you made a mistake and why the new approach is correct. This corrected copy is then turned into the instructor along with the original exam. This

must be turned in by the next class period after receiving back the graded exams. For all proper corrections, you will receive half credit. So say, for example, you received 60% on the original exam; if you make proper corrections and comments to all missed problems, you will end up with 80%.

Attendance policy:

There will be 27 regular class meetings, 3 mid-term exam days, and 1 final exam day (see Course Schedule). It is expected that you attend all of them. Attendance will not be graded directly, but it will be captured in the Daily Quizzes. You may be withdrawn from the class after four absences.

Academic integrity:

If plagiarism (copying of another's work or ideas) is suspected, all students potentially involved will be asked to meet with the instructor to discuss the issue. Violations will be reported to the Chair of the Mathematics department per SCC's code of conduct:
https://www.scottsdalecc.edu/about-scottsdale/policies-procedures-guidelines/code-conduct
Further, here is a message from Dean Fuji:
"The classroom is an educational learning environment where students are expected to engage in behaviors which are conducive to their own learning and the learning of their peers. To facilitate this, respect for self and others is mandatory and necessary. Should a student exhibit disruptive behavior and/or use profane language to the extent that it interferes with the learning environment, an academic consequence may be imposed. Any student found by a faculty member to have committed academic misconduct may be subject to the following academic consequences:

Warning – A notice in writing to the student that the student has violated the academic code.
Grade Adjustment – Lowering of a score on a test or assignment.
Discretionary Sanctions – Additional academic assignments determined by the faculty member.
Course Failure – Failure of a student from a course where academic misconduct occurs.

Further information can be found in the SCC Student Handbook, Academic Misconduct 2.3.11"

Phones, laptops, etc.:

Personal electronic devices should be put away and on silent mode during the instruction periods, unless otherwise noted by the teacher. If you are seen using them or they make an audible sound (beeps, loud buzzing), points will be deducted from your Daily Quiz. If it becomes a common problem, I'll ask that you leave the device in a bin at the front of the room during class time. The only exception to this policy: If you are expecting a truly important message, please inform me before class and I will allow you to keep the device at the ready. If the message comes, please quietly step outside the room to handle it.

Available student resources:

Students are valued at SCC and there are numerous services available to you, including:

- The Math/Science Tutor Center in CM 441 will be open Mon-Thu 8:00am-7:30pm, Fri 8:00am-2:00pm, and Sat 10:00am-2:00pm. I will hold my office hours in there, but there will also be plenty of other capable tutors. *The earlier you ask for help, the quicker you'll figure it out.*
- Math Gym is a unique tutoring service specifically designed for students in MAT082 through MAT122. It is run by instructors who teach these courses and are familiar with MathAS.
- MAT108 is a two-credit course that provides structured tutoring for math and classroom and classroom skills. If you think you might struggle with this course, it is recommended that you also register for MAT108.
- The Student TechCenter provides computer access and assistance in software usage. It is open Mon-Thu 7:00am-9:00pm and Fri-Sat 8:00am-4:00pm.
- Calculator rentals: you may rent calculators from the Information Technology Services Department Media Center for $10/semester. You may also check out calculators for free for a couple hours from Math/Science Tutor Center.
- SCC Pay for Print: each student receives 250 free prints each semester (1 print = 1 one-sided page, black and white). After the initial 250 prints, additional prints can be purchased through the Cashier's Office; each black and white print costs $.10.
- Disability accommodations: suitable accommodations (e.g. supplying a notetaker, test-taking assistance) will be made for students who have disabilities. If you require assistance, please confidentially notify the instructor as soon as possible and call the Disability Resources and Services (DRS) at 480-423-6517

My purpose and expectations:

My purpose in being here is to serve you by being a thorough, helpful, and fair instructor and so provide a solid foundation for further studies. However, the responsibility for grabbing hold of your education lies with you. I expect you to be courteous to me and your classmates and to realize what a gift and responsibility it is to be a student. The more genuine you are, the more you'll learn and the more fun it'll be for all of us. If you have questions/concerns/struggles with anything, simply ask and you'll find help.

Course schedule—Fall 2014
Dates are subject to change at instructor's discretion.

Meeting #	Date	Workbook Sections	Topic	Online Homework Due*
1	Aug 26	1.1	Intro to class, intro to functions	
2	Aug 28	1.1-1.2	Intro to functions	Mini-Lesson 1
3	Sep 2	1.3-1.5	Intro to functions	Homework 1
4	Sep 4	2.1-2.2	Function operations	Mini-Lesson 2
5	Sep 9	2.3-2.4	Function operations	Homework 2
6	Sep 11	3.1-3.3	Linear equations	Mini-Lesson 3
7	Sep 16	3.4	Linear equations	Homework 3
8	Sep 18	4.1-4.3	Linear functions	Mini-Lesson 4
9	Sep 23	4.4-4.5	Linear functions	Homework 4
10	Sep 25		Exam review	
11	Sep 30		Exam #1 (ch. 1-4)	
12	Oct 2	5.1-5.2	Exponential functions	Mini-Lesson 5
13	Oct 7	5.3-5.4	Exponential functions	Homework 5
14	Oct 9	6.1-6.2	Exponential functions	Mini-Lesson 6
15	Oct 14	6.3-7.1	Exponential functions	Homework 6
16	Oct 16	7.1-7.3	Logarithms	Mini-Lesson 7
17	Oct 21	7.4-7.6	Logarithms	Homework 7
18	Oct 23		Exam review	
19	Oct 28		Exam #2 (ch. 5-7)	
20	Oct 30	8.1-8.2	Quadratic functions	Mini-Lesson 8
21	Nov 4	8.3-8.4	Quadratic functions	Homework 8
22	Nov 6	9.1-9.2	Quadratic equations	Mini-Lesson 9
	Nov 11		**No class. Thank a veteran.**	
23	Nov 13	9.3-9.4	Quadratic equations	
24	Nov 18	9.5-9.6	Complex numbers	Homework 9
25	Nov 20	10.1-10.4	Radical functions	Mini-Lesson 10
26	Nov 25	10.5-10.6	Radical functions	Homework 10
	Nov 27		**No class. Have a great Thanksgiving.**	
27	Dec 2		Exam review	
28	Dec 4		Exam #3 (ch. 8-10)	
29	Dec 9	11.1-11.3	Rational functions	Mini-Lesson 11
30	Dec 11	12.1-12.3	Course Review	Homework 11
	Dec 18 9:30-11:20		Final Exam (ch. 1-12)	

*Mini-lessons are due at the start of the class period on the date listed. Homeworks are due at 11:59 PM on the day following the date listed.

Syllabus Agreement Form

Please fill out form, sign, and return to instructor either today or at the next class meeting. If you have any issues with the syllabus, bring them up before you sign and we'll discuss.

I _____ have completely read and understood this syllabus

for the course MAT122, as taught by Cody Anderson. I understand that changes may be made to

the syllabus at the instructor's discretion; any changes will be discussed with the class. I also

understand that I am expected to responsibly fulfill my role as student as outlined in the SCC

student handbook (http://www.scottsdalecc.edu/sites/default/files/pdf/2011-

12_scc_collegecatalog_0.pdf).

Signed: _____

Date: _____