Math 1050-090 Syllabus  
Spring 2019  

MATH 1050-090: College Algebra  
Spring 2019  
Instructor: Daniel Smolkin  
E-mail address: smolkin@math.utah.edu  
Office: JWB 307  
Office hours: Mondays and Fridays 1-2pm at JWB 307. On Canvas conference Tuesdays 6-7pm.  

All of this information can be found at the quiz titled “A: Syllabus” on the course canvas page, which should be online soon  

Communication  
You may contact the instructor by e-mail or through Canvas-mail. When e-mailing your instructor, please include “Math 1050” in the subject line. All announcements for the course will either be posted in quiz format on the Canvas website (these are graded) or sent by Canvas-mail.  

Office hours  
There will be in person office hours Mondays and Fridays from 1 to 2pm in JWB 307. No appointment is necessary to come to office hours. I am also happy to schedule office hours by appointment if you can’t make it at those times.  

Online office hours will be held on Tuesday, January 8, 15, 22, and 29. If at least one student is attending online office hours, they will continue after this; if students are not attending, then online office hours for will switch to be by appointment. Whether hours are continuing or by appointment will be announced in weekly announcements.  

Participating in one of these is similar to making a Skype call while watching a math video. To attend, go to conferences in Canvas. You need speakers. If you have a microphone, you can ask questions; if not you can type them.  

Course information  
Math 1050, College Algebra is a 4-credit semester course.  

Prerequisites: The prerequisite for this course is at least a C (preferably a B) in mathematics 1010 or its equivalent, an Accuplacer CLM score of 60 or better, or an ACT score of at least 23. Students are expected to already have the basic algebra skills.  

Important Note: The mathematics department DOES enforce prerequisites for all undergraduate courses. If you were able to register for this class based on your enrollment in the prerequisite course last semester and you did not receive the minimum grade in that course to enter this class, then you will be dropped from this class on Friday of the first week of classes. If you are in this situation, it is in your best interest to drop yourself from this class and enroll in a class for which you have the prerequisites before you are forcibly dropped.  

Weekly workload  
This is an online course, but still an intense course. According to the University of Utah, a 4-unit course should have about 4 hours of lecture and 8 hours of outside study/homework time. This means that our
online course, will take the average student about 12 hours per week. (In the summer when we complete the semester in 12 weeks instead of 15, students should plan to spend about 14 hours on this course per week!) Some students will be able to get by on less, and some student will need more.

Each week, we cover specific sections. You can choose when you work on the material in the week, keeping your objective and topic goals in mind, but you can’t complete the course at your own pace.

**Communication expectations in an online course**

Most course announcements will be posted in announcement quizzes on Canvas. You are expected to take the course information quizzes at the start of the course, the weekly quizzes at the start of each week, and the exam-related quizzes when posted. In between announcement, I will send updates and reminders by e-mail in Canvas. You should check your Canvas mail approximately every 2-3 days, including late Wednesday or early Thursday (when I will send out e-mails if students need to resubmit quizzes.)

Discussion threads, e-mails, and chat rooms are all considered to be equivalent to classrooms, and student behavior within those environments shall conform to the Student Code. Specifically:

- Using angry or abusive language is called "flaming", is not acceptable, and will be dealt with according to the Student Code.
- Do not use ALL CAPS, except for titles, since it is the equivalent of shouting online.

**Is online right for you?**

Before committing to this course, consider whether the online format matches your learning style. To aid in this, please look at the quiz called “A: Online?” on canvas.

**Course Dates**

Weekly due dates:

- WebAssign homework due each Tuesday at 11:55pm, or a few minutes later
- Quiz every Tuesday night in Canvas at 11:59pm.

Exams (Schedule at a time between the dates below. You must schedule your exams through the "Schedule Exams" link on Canvas. See the quiz “A: Exams” on canvas for more information):

- Exam 1: (first half of this class’s Week 6) Wed 2/13 Sat 2/16
- Exam 2: (first half of this class’s Week 12) Wed 4/3 Sat 4/6
- Final: There are two options:
  - Alternative Final: Thursday, April 25th–Saturday, April 27th
  - Common Final: Monday, April 29th, 1:00-3:00pm, on U of U main campus. The location of the common final will be announced a couple of weeks before the end of the semester

Other dates:

- Drop/audit date: Fri 1/18
- Withdraw date: Fri 3/8
COURSE MATERIALS:

Our course uses WebAssign (a homework website), PRECALCULUS, 9/e by Larson (textbook), and many resources on Canvas (course website). Information about each of these is below.

You must purchase WebAssign and E-book access. However, in the first week, we recommend you use the free trial on WebAssign to complete assignments and access the e-book.

After you are certain you will stay in the class, buy access to WebAssign and the e-book directly from the publisher. A link to do this is in the first Canvas module. DO NOT buy it at the WebAssign homework site, since the price on WebAssign is more expensive!

Note: WebAssign will not be available until the first day of the semester. If you need to purchase WebAssign access before the Canvas site is published, please contact your instructor.

COURSE WEBSITE: Canvas https://utah.instructure.com/. It is a good idea to save this address, so that you can get to Canvas without going through CIS. Usually once or twice a term, CIS goes down, so the alternative access is useful.

TEXTBOOK: PRECALCULUS, 9/e edition, Larson; Chapters 1-3, 7-9. You get access to the e-book version of the textbook when you buy the package described above. If you learn by reading and writing, I’d recommend buying the physical book, either the version above or a used version. More information about purchasing options using the book/WebAssign can be found here: A: WebAssign Textbook.

HOMEWORK WEBSITE: The homework website that accompanies the textbook is run by the company WebAssign. It has the weekly homework assignments and additional videos and tutorials including "the Personal Study Plan". In order to get to a WebAssign assignment, click on that assignment in Canvas. The first time you do this, your WebAssign account will be created. To learn more about using WebAssign, go to A: WebAssign Textbook.

There is a free 14-day trial for WebAssign, which starts the first Monday of the semester and ends the second Sunday. After this, you must pay to use this site.

RECORDED LECTURE VIDEOS: They are available through the modules or in both streamable and downloadable versions at http://www.math.utah.edu/lectures/math1050.html (It’s good to save this address somewhere else, in case Canvas is down)

TECHNOLOGY: The majority of the course work can be done without a calculator. No calculators will be allowed on exams nor the final. Calculators will be useful on some homework assignments and may be allowed on portions of quizzes. If you do not have a scientific or graphing a calculator, there are free calculator applications online.

EXPECTED LEARNING OUTCOMES:

Upon successful completion of this course, a student should be able to:

1. Sketch the graph of basic polynomials (second and third order), rational, radical, exponential, logarithmic, and piece-wise functions with or without transformations. Be able to identify important points such as x and y intercepts, maximum or minimum values; domain and range; and any symmetry.

2. For rational functions, identify x and y intercepts, vertical, horizontal and oblique asymptotes (end behavior), and domain. Use information to sketch graphs of functions.

3. For polynomial functions, identify all zeros (real and complex), factors, x and y intercepts, end behavior and where the function is positive or negative. Use information to sketch graphs.

4. Understand the connections between graphic, algebraic, and verbal descriptions of functions.

5. Given the graph of a function, be able to identify the domain, range, any asymptotes and/or symmetry, x and y intercepts, as well as find a rule for the function if it is obtained from a standard function through transformations.

6. Define i as the square root of -1 and know the complex arithmetic necessary for solving quadratic equations with complex roots.
7. Solve absolute value, linear, polynomial, rational, radical, exponential and logarithmic equations and inequalities.

8. Find the inverse of a function algebraically and graphically.

9. Perform composition of functions and operations on functions.

10. Understand sequences and be able to differentiate between geometric, arithmetic, and others such as Fibonacci-type sequences giving direct formulas where available.

11. Understand series notation and know how to compute sums of finite or infinite arithmetic or geometric series.

12. Solve systems of equations (3x3 linear) and non-linear equations in two variables.

13. Make sense of algebraic expressions and explain relationship among algebraic quantities including quadratic, exponential, logarithmic, rational, radical, and polynomial expressions, equations and functions.

14. Represent and interpret "real world" situations using quadratic, exponential, logarithmic, rational, radical and polynomial expressions, equations, and functions.

Help

Contacting me by my e-mail, coming into office hours, or setting up an appointment is the first way to get help. I am happy to talk about individual problems, mathematical concepts, or help you make a study/learning plan. Please seek help early in the term.

If you have a question about a WebAssign problem, you can contact me through WebAssign (good if it’s a formatting question) or look/post in the Canvas discussion board (good for content questions/calculation issues).

You can also get tutoring through the following:

- Math Tutoring Center (drop-in tutoring, computer lab, group tutoring). This is free to all students. It is in the underground passage between JWB and LCB, Room 155. See http://www.math.utah.edu/ugrad/mathcenter.html for hours.

- Private Tutoring: University Tutoring Services, 330 SSB (they offer inexpensive tutoring). There is also a list of tutors at the Math Department office in JWB 233.

- Computer Lab: also in the T. Benny Rushing Mathematics Student Center, Room 155C. See http://www.math.utah.edu/ugrad/lab.html

- ASUU Tutoring in the evenings at the Marriott Library. See https://tutoringcenter.utah.edu/tutoring-services.php for details.

The structure of the course

Each week, we cover specific sections. You can choose when you work on the material in the week (as long as you meet deadlines), but you can not complete the course at your own pace, as there are specific due dates throughout the semester.

The course week starts on a Wednesday and ends on a Tuesday. Due dates for assignments and quizzes are on a Tuesday. This allows students to get more feedback on the last two days of the week. (So, Week 2 in our class spans the end of University Week 2 and the start of University Week 3).

Here is a breakdown of the components in the course and what they are worth.

- Reading Announcements on Canvas. Course documents and announcements are given in quiz format and have a short quiz about the content at the end. These "quizzes" begin with "A:..." Completing these is worth 2
• Reading from your text book.

• Watching the video lectures. These were produced by the UofU math department. They are available in Canvas or on the math department website. If you find a video isn’t addressing your questions, ask your instructor for additional resources.

• Solving Problems: Working through problems helps you understand and master the material. In WebAssign, there are three types of materials:
  – Practice Assignments: These assignments are for you to get familiar with the concepts before you start the graded homework and/or use as reviews before exams. Doing these assignments is good practice for most students, but they are not required. You can work on them at any time in the semester.
  – Graded Assignments (worth 14%): These assignment are a transition between the practice assignments and quizzes and exams and have fewer help features/allowed submission than the practice assignments. These are due on Tuesday nights at 11:55 pm or a few minutes later. The lowest three homework scores will be dropped at the end of the semester.
  – Personal Study Plan (PSP) resources. These are a collection of interactive practice problems, videos, and quizzes to be used for online tutoring, practice, and review.

For additional problems, use your textbook. There is a link in the Canvas modules to solutions of the odd textbook problems.

• Weekly Take-Home Quizzes: There will be take-home quizzes weekly (any exceptions will be announced in weekly announcements.) You can access them on Friday (earlier by special arrangement) and they are due on Tuesdays. You are responsible for submitting the assignment with the correct format and correct file extension. If you submit with the wrong format, the first two times you will be warned and asked to resubmit in a given window. There will be no penalty the first time and a 10 point deduction (out of 100 points) the second time. After this, submissions with incorrect format will get a 0. The quizzes are worth 14% of your grade. The lowest two quiz scores will be dropped at the end of the term.

• Exams: There will be two midterm exams. Each exam is worth 20% of your grade. You must schedule your exams and final through the "Schedule Exams" link on Canvas. Exams will be administered at the Uonline Exam Services testing center (in the Marriott Library), at satellite testing center in Sandy, or if you are out of area, with a proctor that you set up and register with Uonline. There will be practice material provided prior to each exam. You are not allowed to use notes, a calculator, textbook, or phones during the exam. More information about More information about exams, including how to set up a proctor, can be found here: A: Exams.

• Common Final: The final is comprehensive and worth 30% of your grade. All the students in Math 1060 at the University of Utah take the same common final at the same time, including online students. However, if you are an online student and unable to be at the common final due to the time or location, you are allowed to take an alternative final exam at the testing center or with a proctor at an earlier time. See the exact dates below.

• Extra Credit: Extra credit, worth up to 3% or more of your course grade, can be earned for participating in online discussions (by asking or answering questions with significant mathematical content), or by spotting errors in course materials. See A: Extra Credit for details.

**GRADING:**

Grades are calculated as follows:

• Announcement Quizzes (2%),

• Content Quizzes (14%),
• WebAssign Homework Assignments (14%),
• Midterms (40%)
• and Final (30%).

The lowest 3 WebAssign scores and the lowest 2 quiz scores will be dropped at the end of the term. A score of 73% is required for a C, which is the prerequisite to take the next class. You should monitor your course grade throughout the semester by looking at Grades in Canvas. At the end of the semester, the "current grade", not the "final grade" is used to determine the course letter grade.

The grading scale is:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>≥93</td>
</tr>
<tr>
<td>A-</td>
<td>90–92.9</td>
</tr>
<tr>
<td>B+</td>
<td>87–89.9</td>
</tr>
<tr>
<td>B</td>
<td>83–86.9</td>
</tr>
<tr>
<td>B-</td>
<td>80–82.9</td>
</tr>
<tr>
<td>C+</td>
<td>77–79.9</td>
</tr>
<tr>
<td>C</td>
<td>73–76.9</td>
</tr>
<tr>
<td>C-</td>
<td>70–72.9</td>
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<tr>
<td>D+</td>
<td>67–69.9</td>
</tr>
<tr>
<td>D</td>
<td>63–66.9</td>
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<tr>
<td>D-</td>
<td>60–62.9</td>
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<td>E</td>
<td>&lt; 60</td>
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</tbody>
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Early Policy

You can start WebAssign homework early at any time. You have a 5-day window to complete quizzes. Under special circumstances, you may request them up to two-days earlier than this. Please request this at least 48 hours before you would like to access the quiz. You can also take exams up to a week early, upon well-planned request. Please let me know at least 7 days before you wish to take the exam.

Late Policy

Unexpected events arise you get sick, called into work, have computer or Internet problems, get back late from a trip, etc. If you know you might have a time conflict, busy week, be away, etc., please start work early.

Graded WebAssign assignments:

All students can request 5-day extensions on WebAssign assignments up to 2 weeks after they are due. This deduction is automatically granted by WebAssign. There is a penalty of 30%

You have seven days to complete your homework, so the policy above combined with the lowest three homework scores being dropped at the end of the semester covers most situations (including small illness, being called into work etc.). If you have an extraordinarily severe situation, contact your instructor. Send documentation if possible. If not possible, contact your instructor to discuss alternatives. Removing the penalty (if you completed the assignment by requesting an extension) and/or extending the deadline behind two weeks will be discussed.

Quizzes:

You have a 5-day window to take quizzes. It is recommended that you complete these during the middle of the window, in case something arises at the end which would prevent you from completing them. 1-2 day extensions on quizzes are only given in the case of BIG, UNANTICIPATED, circumstances beyond your control where the situation covers at least two days of the quiz window. If this occurs, you must contact your instructor in a timely manner.

It is your responsibility to maintain your computer and related equipment in order to participate in the online portion of the course. Equipment failures will not be an acceptable excuse for late or absent assignments. Similarly, the following are not acceptable excuses for not turning in an excitement: running out of ink or not having access to a printer/scanner, being called into work or asked to work late, being stuck in traffic, etc. At the end of the semester, your lowest three quiz scores will be dropped. This will provide a buffer in the cases like this.

Quizzes should be uploaded in Canvas before the time indicated. If you are unable to meet this deadline or have technical difficulties, you may send them by e-mail to your instructor by 10 am on the day after the quiz was due. Because handling individual quizzes takes extra instructor/grader time, if you do this, your score (out of 100) will be reduced by 10 points.
Exams:
You have a multi-day window to take exams. It is recommended that you complete these during the middle of the window, in case something arises at the end which would prevent you from completing them.

As in the case of quizzes, if you miss an exam for extraordinarily severe reasons, contact your instructor in a timely way about rescheduling the exam. Send documentation by e-mail if possible. If not possible, contact your instructor to discuss alternatives.

CENTER FOR DISABILITY & ACCESS
The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability & Access, 162 Olpin Union Building, 801-581-5020. CDA will work with you and the instructor to make arrangements for accommodations.

All written information in this course can be made available in alternative format with prior notification to the Center for Disability & Access.

STUDENT RESPONSIBILITIES:
All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee. http://regulations.utah.edu/academics/6-400.php

PREFERRED NAME AND PRONOUN
Class rosters are provided to the instructor with the students legal name as well as “Preferred first name” (if previously entered by you in the Student Profile section of your CIS account). While CIS refers to this as merely a preference, I will honor you by referring to you with the name and pronoun that feels best for you in correspondence, discussions, in office hours and on assignments, etc. Please advise me of any name or pronoun changes (and update CIS) so I can help create a learning environment in which you, your name, and your pronoun will be respected. If you need assistance getting your preferred name on your UIDcard, please visit the LGBT Resource Center Room 409 in the Olpin Union Building, or email bpeacock@sa.utah.edu to schedule a time to drop by. The LGBT Resource Center hours are M-F 8am-5pm, and 8am-6pm on Tuesdays.

ADDRESSING SEXUAL MISCONDUCT
Title IX makes it clear that violence and harassment based on sex and gender (which includes sexual orientation and gender identity/expression) is a civil rights offense subject to the same kinds of accountability and the same kinds of support applied to offenses against other protected categories such as race, national origin, color, religion, age, status as a person with a disability, veterans status or genetic information. If you or someone you know has been harassed or assaulted, you are encouraged to report it to the Title IX Coordinator in the Office of Equal Opportunity and Affirmative Action, 135 Park Building, 801-581-8365, or the Office of the Dean of Students, 270 Union Building, 801-581-7066. For support and confidential consultation, contact the Center for Student Wellness, 426 SSB, 801-581-7776. To report to the police, contact the Department of Public Safety, 801-585-2677(COPS).