South Plains College

Math 1314 - College Algebra
Section 606
Spring 2023

Jacqueline Fowler

Table of Contents

(You may click on the title to go directly to that information)

I. Department Policies

Common Course Syllabus: Math 1314 (Revised December 2022)

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics   **Course Number**: MATH 1314   **Course Title:** College Algebra

Available Formats: conventional, hybrid, internet, and ITV

Campuses: Levelland, Plainview Center, Lubbock Downtown Center, and Dual Credit

Course Description: In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

Prerequisite: Minimum score of 350 on the TSIA1, minimum score of 950 on the TSIA2, a diagnostic score of 6 on the TSIA2, TSI-exempt status, a successful completion with a grade of 'C' or better in MATH 0320, or a successful completion of NCBM-0114.

Credit: 3 **Lecture:** 3 **Lab:** 1

This course partially satisfies a Core Curriculum Requirement: 1314 - Mathematics Foundational Component Area (020)

Core Curriculum Objectives addressed:
- **Communications skills**—to include effective written, oral and visual communication
- **Critical thinking skills**—to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Empirical and quantitative competency skills**—to manipulate and analyze numerical data or observable facts resulting in informed conclusions

Student Learning Outcomes: Upon completion of this course and receiving a passing grade, the student will be able to:
1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices.

Student Learning Outcomes Assessment: A pre- and post-test questions will be used to determine the extent of improvement that the students have gained during the semester

Course Evaluation: There will be departmental final exam questions given by all instructors.

Attendance/Student Engagement Policy: Attendance and engagement are the most critical activities for success in this course. The instructor maintains records of the student's attendance and submission of assignments throughout the semester. The student is expected to attend at least eighty percent (80%) of the **total** class meetings **and** submit at least eighty percent (80%) of the **total** class assignments to have the best chance of success. If the student fails to meet these minimum requirements, the instructor <u>may</u> remove the student from the class with an X, upon their discretion, to help the student from harming their GPA. If the student cannot receive an X, the instructor will assign an F.

Plagiarism violations include, but are not limited to, the following:
1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:
1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain an unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

II. South Plains College Policies

Student Code of Conduct Policy: Any successful learning experience requires mutual respect from the student and the instructor. Neither the instructor nor the student should be subject to others' rude, disruptive, intimidating, aggressive, or demeaning behavior. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

South Plains College policies concerning diversity, disabilities, non-discrimination, Title IX Pregnancy Accommodations, and Campus Concealed Carry Statements can be found here: https://www.southplainscollege.edu/syllabusstatements/.

South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here: https://www.southplainscollege.edu/emergency/covid19-faq.php.

***Note: The instructor reserves the right to modify the course syllabus and policies, as well as notify students of any changes, at any point during the semester.

III. Section C606 Course Information

Instructor Information: Jacqueline Fowler   B022 (LBK Downtown Center – Basement)
                                                806-716-4640   jfowler@southplainscollege.edu

Office Hours:

Mondays:	Wednesdays:	Fridays:
10:45 am – 1:00 pm (B022)	10:45 am – 1:00 pm (B022)	8:00 am – 9:30 am (B022)
4:30 pm – 6:30 pm (virtual)		

Required Materials:
- ❖ MyMathLab (included in tuition)
- ❖ Computer and Printer Access
- ❖ Notebook paper, pencils, erasers
- ❖ Reliable Internet Service

Blackboard: Blackboard is an online course management system that SPC uses for course information. For technical support, call 806-716-2180 or email blackboard@southplainscollege.edu.

MyMathLab: We will be using a math website called MyMathLab (MML) for all assignments. The cost of this will be added to the regular tuition and fees for the class through the TexBook program. More information on this can be found at https://www.southplainscollege.edu/texbook.php.

Tutoring: You have access to free tutoring through SPC. Click on the tutoring link in Blackboard for more information. If you visit with a tutor, please share with them the work shown in my videos, so they can help you with the correct steps.

Communication: All emails need to be sent through your SPC email account to my SPC email account. I will respond to all emails within 24 hours except on weekends. Emails sent to me after 12:00 pm on Friday may not receive a response until Monday morning.
- You **must** include your name and class on every email.
- Do **not** use your personal email. (I will **only** respond to SPC email addresses.)
- Be professional in your messages.
- Do **not** use all caps.
- Do **not** use text language.
- Do **not** email me more than once in 24 hours. Give me a chance to reply.
- If you have not heard from me in 48 hours, that could mean I did not receive your email, so you should email me again.

Professionalism, respect, and courtesy are required at all times. **NO PROFANITY** under any circumstances in any situation. Confrontational behavior will NOT be tolerated, and you will be dropped from this course immediately to receive an F or X at my discretion.

Computer Issues: If your personal computer becomes "disabled", there are computer labs on all SPC campuses which you may use to access this course. **Computer problems, mechanical failures,**

internet service provider issues, etc. do not constitute excuses for late submission of work. You must have a reliable computer and reliable internet service.

Dropping the class: If you wish to drop this class, you will need to submit a drop form online (online drop form) or you may visit the Student Services Office. **If someone other than you logs into your Blackboard or MML account, you WILL be dropped from this class immediately and receive an X.**

Grading Policy:		**Grading Scale:**	
• Participation	5 %		A: 90 – 100
• Homework	5 %		B: 80 – 89
• Exams	90 %		C: 70 – 79
			D: 60 – 69
			F: 59 and below

IV. Assignments

General Info / Extension of deadlines: All assignments are located under the "REQUIRED ASSIGNMENTS" tab in MML. You should ALWAYS stay days ahead of schedule so that if you have any issues, it can be resolved before the deadline. **Issues cannot be resolved after the deadline**. You must give me 24 hours to fix any issues. **NEVER wait until the last day to complete an assignment.** Computers seem to have issues when you are in a hurry to meet a deadline. To be fair to everyone, assignments will NOT be accepted late for ANY reason, so do NOT even ask. *No exceptions!*

Flipped Classroom: This is a flipped classroom and how you receive instruction in this class will look different from the way you have received instruction from classes in the past. Your "homework" will typically involve you interacting with short videos before class. That will then free up class time for me to help you more, and give us more class time for discussions, collaborative assignments, and hands-on experiences. Since this class is different, I have listed out some suggestions which will ensure that you are completely successful.

- **Note-taking tips**
  - Take careful notes from the video.
  - Draw appropriate diagrams and charts in your notes.
  - Frequently pause the video to take notes.
  - "Rewind" the video when you don't understand things.
  - When the instructor tells you to solve a problem or write something down, do it.
  - Write down questions in your notes from the lecture video when you don't understand something.
  - Bring your questions to class and ask the instructor for help and clarification.
- **How to Best Participate in Class**
  - Ask the instructor the questions you wrote down in your notes.
  - Fully participate in class activities.
  - Work with your classmates.
  - Offer to help your classmates with things you understand.
  - Ask for help from your classmates when they understand more than you.

Participation: There will be several participation assignments in class or online throughout the semester. **Participation assignments will not be accepted late, and there are no make-ups**. One participation grade will be dropped at the end of the semester.

Homework: Homework for every section can be found in MML under "Required Assignments". You can save homework assignments, log out, and come back to work on them at any time. If you miss a problem, or if you just want more practice, hit "similar exercise" at the bottom of the screen for a new problem to work. **You should rework homework over and over to practice and be ready for exams. **Homework will not be accepted late, and there are no make-ups**. Five homework grades will be dropped at the end of the semester.

Exams: All exams will be taken online during class. A laptop and calculator will be provided to you, so you will not be allowed to use your own. Exams are due by the end of the class. If you are late for an exam, you forfeit the full amount of time to take the exam. For example, if you arrive 30 minutes late, then you lose 30 minutes of time allowed on the exam even if there is still more time showing online in MML. At the deadline, MML will automatically submit your exam for you. That means if you start the exam 30 minutes prior to the deadline, MML will submit your exam at the deadline (30 minutes later) and you will not be allowed to finish. If MML is still showing time at the end of class, you will be asked to submit your exam. If you are absent on an exam day, you will receive a zero for that exam. **There are no make-up exams**.

Final Exam: There will be a mandatory comprehensive final exam at the end of the semester. The final exam will be used to replace the lowest exam grade as long as the final exam is higher. If you miss the final exam, you will receive a zero for that exam. **There are no make-up exams**.

***Entering answers: If you go through the "How to enter answers" in MML and practice homework, you will know how to enter answers on all exams. **You must know the proper way to answer the questions**. If you are having problems entering answers, please contact me while doing homework so I can help.

V. Online Exam Policies
- Online exams will only be given for extenuating circumstances.
- You must get approval from me at least 24 hours in advance.
- The exam will be taken through zoom and proctored by me.
- The exam must be taken before the next class meeting.

If an online exam is taken, the following policies will go into effect.

Additional Required Materials:
- ❖ Scanner
- ❖ Zoom – you may not use your computer

Guidelines for online exams: If any ONE of the following guidelines are not followed, you will receive a zero on your exam.
- A calculator will be provided to you in MML, so you may not use your own calculator.
- You are not allowed to have another person in the camera view.
- Hats and headphones of any kind are not allowed on any exam.
- You must have good light so you are easily seen.
- Once you start working on the exam, you are not allowed to move out of the camera view during the exam.

- Once you are finished with the exam, you MUST scan your work as one PDF file with multiple pages and email it to me **as an attachment.**
  - I will not accept the following:
    - Any file that is not a PDF – no PNG files
    - Any shared file – you must send as an attachment
    - Any file sent from your personal email – you must use your SPC email
- **Before you exit zoom, you must verify with me that I have received your work. If I do not receive your work during the zoom meeting, you will not receive credit for your work.**

Tentative Course Outline
Changes will be announced in class and posted in Blackboard.

Week	Day	Monday
1	Mon, Jan 16	MLK
	Wed, Jan 18	Review (Unit 1, 2.1, and 2.2, and 4.1)
2	Mon, Jan 23	Linear Equations and Inequalities (2.3, 2.4)
	Wed, Jan 25	Factoring (3.3)
3	Mon, Jan 30	Rational Expressions and Equations (3.4, 3.5)
	Wed, Feb 1	Radical Expressions and Equations (4.2, 4.3)
4	Mon, Feb 6	Quadratic Equations (4.4, 4.5)
	Wed, Feb 8	Exam 1
5	Mon, Feb 13	Functions and Graphs (5.1 and 5.2)
	Wed, Feb 15	Functions and Graphs (5.3 and 5.4)
6	Mon, Feb 20	Functions: Domain, Combining, and Compositions (6.1)
	Wed, Feb 22	Inverse Functions (6.2)
7	Mon, Feb 27	Slopes, Equations, and Graphing (6.3)
	Wed, Mar 1	Exam 2
8	Mon, Mar 6	Graph Quad Functions (7.1)
	Wed, Mar 8	Synthetic Div and Solve Polynomial Equations (7.2)
9	Mon, Mar 13	Spring Break
	Wed, Mar 15	Spring Break
10	Mon, Mar 20	Graph Polynomial Functions (7.3)
	Wed, Mar 22	Graph Rational Functions (7.4)
11	Mon, Mar 27	Polynomial and Rational Inqualities (7.5)
	Wed, Mar 29	Exam 3
12	Mon, Apr 3	Exponential Functions and graphs (8.1)
	Wed, Apr 5	Evaluate Log Expressions, Expand and Condense (8.2)
13	Mon, Apr10	Exponential Equations (8.3)
	Wed, Apr 12	Log Equations (8.4)
14	Mon, Apr 17	Systems of 2 Equations (9.1)
	Wed, Apr 19	Matrices (9.3)
15	Mon, Apr 24	Determinants and Cramer's Rule (9.4)
	Wed, Apr 26	Exam 4
16	Mon, May 1	Review
	Wed, May 3	Review
17	Mon, May 8	Final Exam 8:00 am - 10:00 am