Montgomery College **Takoma Park/Silver Spring Campus**
Math 165 Pre-Calculus **Spring 2019**

INSTRUCTOR INFORMATION

[redacted]

CLASS MEETINGS

TR from 1:00 - 3:10 pm in **SS 226**

COURSE DESCRIPTION

Topics from advanced algebra, trigonometry, conics, and functions; applied problems. Designed to prepare students for MATH 181 Calculus I or MATH 170 Calc for Life Sciences I.

Math 165 fulfills a General Education Program Mathematics Foundation requirement. Montgomery College's General Education Program is designed to ensure that students have the skills, knowledge and attitudes to carry them successfully through their work and personal lives. This course provides multiple opportunities to develop two or more of the following competencies: written and oral communication, scientific and quantitative reasoning, critical analysis and reasoning, and technological competency. For more information, please see www.montgomerycollege.edu/gened.

PREREQUISITES

A grade of C or better in MATH 096 or 050 Intermediate Algebra (formerly MA 099) and a grade of C or better in MATH 098 (formerly MA 105) Introduction to Trigonometry or appropriate score on the mathematics assessment test, or consent of the department. You may also take MATH 098 concurrently with MATH 165. Assessment Levels: ENGL 101/101A (formerly EN 101/101A), READ 120 (formerly RD 120). Credit: 4 Semester Hours. *Class meets five (5) hours each week*.

SUPPLIES

- Precalculus: Enhanced with Graphing Utilities, (loose pages with MathXL access code) 7th ed, by Sullivan, Pearson Prentice Hall Publishers, 2017. ISBN:9780134589794

- A graphing calculator is required. A TI-84+ (or TI-84 or any TI-83) calculator is recommended. Students will not be permitted to use a TI-89, TI-92, or any device supplied with a Computer Algebra

System. Cell phone calculators and the sharing of calculators during quizzes or tests will also not be permitted.

- Math notebook for class notes and homework notes.

GRADING

The weights for calculating your final grade are as follows:

Homework Average		
Quiz Average		
Test 1 & 2 Average		
Midterm Exam		
Final Exam		

The grading scale for this class is as follows; A 90-100, B 80-89, C 70-79, D 60-69, F below 60. A grade of C or better is required to move onto Math 181.

MAKEUP POLICY

All quizzes and tests must be taken at the appropriate time. There will be no makeup tests or quizzes. A student who misses a quiz or test, for whatever reason, will receive a zero on that assignment. If the grade on your final is better than your worst quiz grade, then the final exam grade will replace the worst quiz grade. If the grade on your final exam is better than your worst test grade, then the final exam grade will replace that lowest test grade.

HOMEWORK INSTRUCTIONS

Homework will be done on paper. For each section suggested problems may be done in any format of your choice. Problems to be turned in for a grade should be done on one sheet for each problem. They should contain your name, the class, the section of the book, the problem number, the problem, your work, your answer and the book answer with some indication that you got the problem correct or not. No late home work is accepted. Homework will not be returned.

SECTIONS TOPICS

2.1-2.6, 1.3 Functions and Their Graphs

3.1-3.3 Linear and Quadratic Functions

4.1 – 4.6 Polynomial and Rational Functions

5.1-5.9 Exponential and Logarithmic Functions

6.1-6.6 Trigonometric Functions

7.1-7.6 Analytic Trigonometry

8.1- 8.4 Applications of Trigonometric Functions

9.1-2, 10.7 & 12.1-4 Miscellaneous Topics

In order to achieve our goals this semester, we will approximately follow this time-topic schedule.

MY EXPECTATIONS

1. Perfect attendance!! You are responsible for all material covered in class whether or not you were there. It is critical that you be in class on time and that you be in the classroom for the duration of the class. If you miss 3 or more classes this semester, then your status as a student with "excessive absences" puts you in danger of failing. Contact me if you have an emergency situation.

2. Homework must be done on time. Homework will be assigned every night. You are responsible for the assignment even if you missed the class session.

3. **All tests must be taken at the appropriate time. There will be no makeup tests or quizzes. Missed quizzes or tests will result in a grade of 0.**

4. Active productive participation in each class and respect for the learning environment.

5. Study at least 2-3 hours outside class for each hour we spend in class. That amounts to a **minimum of 10 hours a week**! Think about how you'll manage your time so you have enough time to commit to being successful in this class. It would be best to study five or six times a week, and I would highly recommend using roughly thirty minutes after each class meeting to review what was presented in class that day.

6. **I encourage you to seek extra help as soon as needed**. You should

- Use the study aids available in MathXL.
- See me during office hours or by appointment.
- Use the tutoring services offered on campus. Help is available in the Math Learning Center (located in P1-101D).

7. Electronic devices should be turned off and stored prior to the beginning of class. Cell phones must be turned off during class. Texting is not to be done in class. Headphones should not be worn during class.

8. Mathematics is a language**. You need to read it, write it, talk about it and practice it regularly and frequently in order to become fluent in it.** This means that you need to

- Review your class notes
- Read your text and work through the examples
- Work the homework exercises. Then review what you have learned from the homework. Think of practice test questions that might be based on the concepts covered in the homework. Use the similar exercise button in MathXL.
- Ask questions.
- Write practice problems of your own and work them.
- Spend time alone concentrating on the material.

- Form a study group.

9. You are taking a five hour course, during which we will move through the material quickly. It will be **very** important for you to come to every class ready to learn, to keep up with the homework, and to come **get extra help as soon as you feel confused or unsure of yourself**. My goal is for each of you to learn what you'll need to be ready for calculus. Work hard and take advantage of this opportunity!

GENERAL COURSE DATES TO KNOW

- Refund Deadline: 01/28/2019
- Last day to Add/Drop without W or change audit/credit status: 02/11/2019
- Last day to drop with a W: 04/15/2019
- Final Exam: Thurday May 9 from 12:30 pm - 3:30 pm

COMMUNICATION

I will communicate with you between classes by way of announcements on MathXL and email sent through MathXL or MyMC. You should check your Montgomery College email regularly. The best way to communicate with me between classes is by email. If you send me an email during the semester, you can normally expect a reply within a day. If you do not hear from me, assume I did not receive your email and resend it using your MC email account. Please sign your emails, and tell me which class you're in.

AUDIT POLICY

All students registered for audit should meet with me before or during the first class session in which they are in audit status. Students auditing the class are required to participate in all course activities unless otherwise agreed upon by the student and instructor at the time of consultation. Failure to consult with me or to participate may result in the grade of "W" being awarded by me.

DISABILITY SUPPORT SERVICES

Any student who may need an accommodation due to a disability, please make an appointment or see me during my office hours before the end of the second week of class. A letter from Disability Support Services (2^{nd} Floor Student Services Building) authorizing your accommodations will be needed. Any student who may need assistance in the event of an emergency evacuation must identify to the Disability Support Services Office; guidelines for emergency evacuations for individuals with disabilities are found at: www.montgomerycollege.edu/dss/evacprocedures.htm

WITHDRAWAL

If you wish to withdraw from class, you must complete the appropriate papers! If you do not attend class and do not officially withdraw from the class, you may receive an F for the class.

ACADEMIC HONESTY

Cheating, plagiarism, and/or other forms of academic dishonesty will not be tolerated. During tests and exams, papers, notes and calculators may not be shared. Each student is expected to focus only on his/her own paper. During a test, students may not return after they leave the room.

STANDARDS OF COLLEGE BEHAVIOR

Classroom conduct that is conducive to a learning environment will be expected at all times. If a student behaves in such a way that 1) demonstrates a lack of respect, 2) interferes with the educational process or 3) violates the Student Code of Conduct, instructors are responsible for advising the student of the inappropriate behavior and granting her/him an opportunity to correct it. A student who fails to correct this behavior will be asked to leave the class and will be subject to disciplinary action as outlined in the Student Code of Conduct which can be found on the college's website.

DELAYED OPENING OR CLOSING OF THE COLLEGE**

Because of inclement weather or utility failure or for other reasons, it may be necessary to delay opening or suspend all operations of the College or an individual campus. If such conditions force the College to close, public service announcements will be provided to local radio and television stations as early as possible. The information is also available through the college website or by calling the MC Information Line at 240-567-5000. I encourage you to sign up for Montgomery College ALERT, a system which will automatically send a text or email message to you in the event of closures or emergencies. For delayed openings and early closings, the following criteria hold:

- If the College opens or closes at a time when more than 50% of a class period will be missed, that class will be cancelled for the day. For example, if the College is closing at 11:30 p.m., a class that runs 11:00 – 12:25 p.m. would not meet. If the college opens at 12:00 p.m. a class that runs 11:00 – 12:25 p.m. would not meet.
- If less than 50% of a class will be missed, that class will meet for the remaining portion of its regularly scheduled time. For example, if the College opens at 11:30 p.m., a class that runs 11:00 – 12:25 p.m. will meet, starting at 11:30 p.m. If the college closes at 12:00 p.m. a class that runs 11:00 – 12:25 p.m. would meet from 11:00 – 12:00 p.m.

** Be careful: sometimes classes are cancelled for the public K-12 schools and not cancelled at Montgomery College. To check whether Montgomery College classes are cancelled, you may call the College's information line 240-567-5000 or go to our Web site at http://www.montgomerycollege.edu for closing information.

VETERAN'S SERVICES

If you are a veteran or on active or reserve status and you are interested in information regarding opportunities, programs and/or services, please visit the Combat2College website at www.montgomerycollege.edu/combat2college.

Montgomery College MATH 165 Course Outcomes *Approved Fall 2009*

Course Functions: Polynomial Functions,Rational Functions, Exponential and Logarithmic Functions and Trigonometric Functions.

#	*Outcome: Upon completion of this course/program a student will be able to:*
1	Describe and analyze properties of course functions algebraically, verbally, numerically, and graphically
2	Create, recognize, and interpret transformations of course functions and circles algebraically, numerically, verbally and graphically.
3	Develop a mathematical model from a verbal description or data. Apply the mathematical model to solve a problem and interpret the solution.
4	Simplify expressions, verify identities and solve equations, algebraically.
5	Solve and interpret absolute value, rational and polynomial inequalities algebraically and graphically.
6	Combine course functions arithmetically and by composition, and understand the function properties of the newly formed functions.

7	Determine inverse functions and their properties for appropriate course functions.
8	Employ the graphing calculator to evaluate, find common points, zeros, symmetries, relative extrema and intervals of inequality of all course functions and parametric equations.
9	Sketch, by hand, and label significant features on graphs of course functions.

How to Register and Enroll in Your Course on MathXL

1. Go to the www.mathxl.com for MathXL, click the Register button, and then follow the instructions on the screen.

2. After registering, log in to MathXL with your username and password. To enroll in this course, enter the Course ID for your course which is

XL37-Z11I-7022-24K2

and your "*two weeks free*" temp code is

PSXLTR-FLUFF-RETCH-HOGUE-TANIS-BIDES

FERPA CONSENT

By agreeing to take this course you must be willing to have your name, image or voice recorded during the course lectures. You may choose to have your name not used in class.