Math 160 Syllabus

Spring 2018

CLASS INFO	PROFESSOR INFO

Precalculus

MW 6:45-8:50pm

Section 6 (CRN 42228)

Classroom: 61-3411

http://davidsmath.com/math160-06/

Name: David Beydler

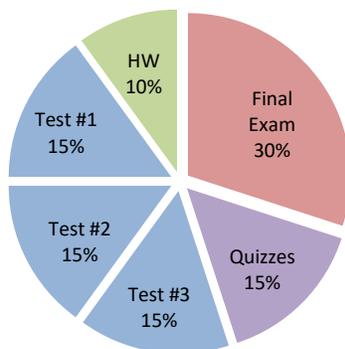Office Hours: M 2-4pm, T 12-1pm, W 1-2pm

Office: 61-1608 (Building 61, Room 1608)

Phone: 909-274-4669

E-mail: dbeydler@mtsac.edu

GRADING INFO

Homework:	10%
Quizzes:	15%
Test #1:	15%
Test #2:	15%
Test #3:	15%
Final Exam:	30%

You'll get an A, B, C, D, or F
based on these overall percentages:

90-100%: A
80-89%: B
70-79%: C
60-69%: D
0-59%: F

Homework: Homework will be collected weekly (see class website for assignments). You must show work to get credit. You can turn in up to 3 homework assignments late.

Quizzes: Quizzes will be at the beginning of class on Mar 14 (Wed), Apr 11 (Wed), May 9 (Wed), and Jun 4 (Mon). No make-up quizzes will be given. Your lowest quiz score will be dropped.

Tests: We'll have 3 tests on Mar 28 (Wed), Apr 25 (Wed), and May 23 (Wed). No make-up tests will be given. I'll replace your lowest test percentage with your final exam percentage (if your final exam percentage is higher).

Final Exam: The final exam will be cumulative and will be on Monday, June 11, 7:30pm-10:00pm. No make-up final will be allowed.

Extra Credit:
1. Scavenger Hunt: If you complete the Scavenger Hunt handout at the beginning of the semester, you'll get an extra 1% towards your first test. The due date is Mar 14 (Wed).
2. Tutoring: If you spend 8 hours at a tutoring center on campus, you'll get an extra 1% towards the next upcoming test (including the final exam). The main free math tutoring centers on campus are:
    *   TMARC (Transfer Math Activities Resource Center) – Building 61, 1st floor – http://www.mtsac.edu/marc
    *   LAC (Learning Assistance Center) – Building 6, 1st floor – http://www.mtsac.edu/lac/tutorialservices.html
3. Review Exercises: Before each test and the final exam, I'll give you a set of review exercises to work on. They'll be due at each test, and depending on completeness and neatness can be worth up to 2% extra credit towards that test (including the final exam).

So, the maximum possible extra credit for Test #1 is 4%. The maximum possible extra credit for Test #2, Test #3, and the final exam is 3% each.

Calculators: You'll need a *scientific* calculator for certain parts of the quizzes, tests, and final exam. You will *not* be allowed to use any other electronic devices, such as cell phones, graphing calculators, computers, etc. If you're not sure, check with me ahead of time whether your calculator is acceptable or not. You will not be allowed to share a calculator during quizzes, tests, and the final exam.

Also, no books or notes will be allowed during the quizzes, tests, and final exam.

Classroom: My goal is to keep the classroom environment focused on learning math (after all, that's what you signed up for!). So, the basic rules are: don't disrupt others during class, and respect your fellow classmates and teacher (me!). Please eat before or after class, or during breaks. Turn cell phones off/silent.

I will post handouts and quiz/test solutions on the class website (see Class Info).

MISCELLANEOUS

Textbook: *Precalculus* (10th Edition), Sullivan.

Prerequisites: MATH 150 or qualifying score on current department placement test

Description: Prepares students for the calculus sequence. Real-valued functions, including algebraic, trigonometric, exponential, and logarithmic functions. Also includes proofs, inequalities, introductory analytical geometry, series, sequences, and vectors.

Objectives:
1. Graph functions using translations and reflections.
2. Determine the domain of a function.
3. Operate with functions.
4. Find the inverse of a function.
5. Use linear and quadratic functions to solve application problems.
6. Solve for the complex roots of polynomial functions.
7. Analyze polynomial, rational, exponential, logarithmic, and trigonometric equations.
8. Solve polynomial, rational, exponential, logarithmic, and trigonometric equations.
9. Operate with vectors, including the dot product; use vectors to solve application problems.
10. Find the partial fraction decomposition of a rational expression.
11. Graph conic sections; recognize or derive their properties, and write their equations.
12. Solve and graph systems of nonlinear equations.
13. Analyze arithmetic and geometric sequences.
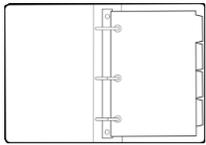14. Use the binomial theorem.

Student Learning Outcomes:
1. Students will be able to analyze a variety of functions.
2. Students will be able to solve different types of trigonometric equations.

Accommodations: Students requesting accessibility accommodations should be sure to contact the Accessibility Resource Centers for Students (http://mtsac.edu/dsps). Also, please feel free to stop by my office so we can discuss your particular learning needs.

Academic Honesty: Don't cheat. It's wrong and it's not worth it. I will follow the policy as outlined in the school catalog (see http://www.mtsac.edu/catalog), and will report any student misconduct to the Office of Student Life. Also, you'll receive a zero score on the assignment/exam.

STUFF TO GET

1. 3-ring binder (at least *1-inch,* or better *1.5-inch*)
2. Scientific calculator
3. Pencils and erasers

FAQ

Q: Do you offer make-up quizzes/exams?
A: No. However, your lowest quiz will be dropped. Also, if you miss a test for any reason, I'll replace the test with the final exam percentage.

Q: Will I need Scantrons?
A: Nope.

Q: Will the final exam cover everything?
A: Yep.

Q: How do you pronounce your last name?
A: The "Bey" is pronounced like "Bye!" But don't worry about this if you forget!

Note: Any of the information in this syllabus could change anytime. I'll try to e-mail important announcements and post them on the website, but ultimately you are responsible for announcements made in class. So, I'd recommend getting the phone number and/or e-mail address of a classmate or two.

CLASSMATE CONTACT INFO

Name: _____

Phone: _____

E-mail: _____

Name: _____

Phone: _____

E-mail: _____