


F O L S O M L A K E C O L L E G E
 EL DORADO CENTER ♦ RANCHO CORDOVA CENTER

Math 335 Fall 2017 Syllabus

This is a CS/UC transferable course.

Course # **16204** **MWF** 10:30 a.m.- 12:00 p.m. **FLC Performing Arts Center (PAC) 1062**

Instructor: Marc Olsen
Office: Aspen (FL1) 148

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|---|--|--|---------------|
| | Office Hours: 8:30-8:50 am office hours are held in classroom | | |
| | Monday | Wednesday | Friday |
| | 8:30-8:50 am | 8:30-8:50 am | 8:30-8:50 am |
| | 12:15-1:00 pm | 12:15-1:00 pm | 12:15-1:15 pm |
| <div style="border: 1px solid black; padding: 5px; width: fit-content;"> MW night office hours are at RCC 143, 142, or 145 </div> | <div style="border: 1px solid black; padding: 5px; width: fit-content;"> 6:30-7:00 pm </div> | <div style="border: 1px solid black; padding: 5px; width: fit-content;"> 6:30-7:00 pm </div> | |
| | Or by appointment | | |

When contacting me by phone, text, or email, please be sure to include: your full name, the title of the class and the start time of the class: **EXAMPLE: Isaac Brock, Math 335, MWF 10:30am**

I will do my best to get back to you as soon as I can during the regular business week, and I do not necessarily check for student communication after 5 pm weekdays, on Thursdays, or weekends. If you come by to see me in my office (even at non-office hour times), please knock as I may be in my office even when my door is closed.

Required Text:



Trigonometry Lial, Hoornsby, Schneider, Daniels, 10th edition, Published by Pearson
ISBN-13: 978-0-321-67177-6

Optional Text: Student Solutions Manual

Calculators are a necessary tool for this class and graphing calculators are not necessary but useful. For smartphone users I suggest the free app “Desmos”

Please no cell phones are to be turned on or used in class unless it is at the direct request of the instructor. I may ask any student who *appears* to have a cell phone turned on without express permission, to leave class if I deem it to be a disruption.

Prerequisites:

Successful completion of MATH 120 with a grade of "C" or better, and having passed, with a "C" or better, one year of HS geometry or math 110, or placement into Math 335 via the assessment process at any Los Rios community college. All prerequisites must be cleared through the Dean Gary Hartley's office or through the office of admissions prior to attempting to enroll. Getting a permission number from me does not allow you to enroll without having shown proof of having the prereqs.

Student Learning Outcomes and Objectives:

Upon completion of this course, the student will be able to:

- interpret trigonometric functions in working with right triangles, general triangles, and arcs of the unit circle.
- efficiently evaluate trigonometric and inverse trigonometric functions from memory involving special right triangles.
- efficiently evaluate trigonometric and inverse trigonometric functions at general angles from a table and by using a calculator.
- evaluate, expand, and simplify trigonometric, algebraic, logarithmic, and exponential expressions and solve equations (and prove identities) involving these expressions.
- graph and analyze trigonometric, rational, absolute value, exponential, and logarithmic functions, as well as conic sections, including algebraic transformations.
- solve application problems involving trigonometric, exponential, and logarithmic functions.

Grading: The approximate Grading breakdown is as shown below. *The instructor reserves right to adjust this scale or scheme when he deems appropriate.*

| | | | | | |
|-------------------|------------|----------------|---------------|---------------|---|
| Participation | 3% | 24 pts | 90-100% | 720-800 pts | A |
| Homework | 12% | 96 pts | 80-89% | 640-719.9 pts | B |
| Quizzes | 15% | 120 pts | 70-79% | 560-639.9 pts | C |
| Exams | 50% | 400 pts | 60-69% | 480-559.9 pts | D |
| <u>Final Exam</u> | <u>20%</u> | <u>160 pts</u> | less than 60% | below 480 pts | F |
| | 100% | 800 pts | | | |

Your grade = $\frac{\text{Your Points}}{\text{Total Points}}$ and can be calculated by you.

You should keep track of all of your assignments and calculate your grade for yourself throughout the semester.

Extra credit may be given during the semester at the instructor's discretion.

Participation:

You are expected to be in class each meeting time on time, prepared for the lesson. You are encouraged to be an active learner/participant in class and to pre-read the notes and the book section. Your questions and participation in class discussions are kindly encouraged. If you are a shy student you may earn participation by use of office hours, outside tutoring from a private tutor or at the campus math lab, or in group study sessions with 3 or more of your fellow classmates. Your participation grade is designed to account for your effort in class and is broken down as follows:

- 33% of the full participation points: Perfect attendance for the entire semester.
- 67% of the full participation points: **Active participation in class discussions, attending office hours, receiving outside tutoring, or forming study groups of 3 or more people.** Evaluation of this is left up to the instructor; however it is your obligation to inform the instructor in writing immediately following of any outside tutoring or study groups if you partake in these types of participation.
- Your participation points will be totaled at the end of the semester, and will be based on your attendance, in class participation, and your submissions indicating your out of class participation. Full participation based solely on out of class participation requires regular and consistent written notice throughout the entire semester.

Homework:

Your homework grade will come in two parts:

- 1) HW Quizzes (7% of grade): at the beginning of random class days I will ask you to take out your homework notebook. I will provide a section number and problem number for an unspecified number of homework problems. Without using any other resource other than your homework notebook, you will be given a limited amount of time to copy the requested problems onto a clean sheet of paper with your name, date, and class section on it. This will be handed in and graded for correctness and will require to have correct work shown. If the work shown does not support the complexity of the problem you may be marked down (ex: if it is a difficult problem requiring multiple steps of work, and you only have an answer, you would get marked down. Ex: if it was a simple problem with only one step required and that could be done in your head, then no work may be necessary to show)

If you do not have that problem, or it is incorrect, you will not receive credit. For this reason, it is important that you complete your homework on time and that you complete all homework problems assigned.
- 2) Written HW Assignments (5% of grade) All sections that we complete from the time of the last exam to the current exam are expected to be handed in at the beginning of every exam in a designated HOMEWORK BINDER. Successful completion of all assigned problems means:
 - All Homework will be collected at the beginning of class on Exam days and **will be graded for neatness and completeness only.**
 - You must secure all sections in order and place them in a designated HW Binder with your HW cover sheet at the front with your name on it.
 - You have attempted each assigned problem.
 - You must print your name, class and meeting times on the upper right corner of your assignments along with the section number and **list of all assigned problems.**
 - You must begin each new section on a new sheet of paper. Failure to do any of these will result in a loss of points.

- Binder must be very neatly organized

Late HW and Make ups may not be allowed on the Weekly HW or Exam HW assignments subject to instructor discretion.

Quizzes:

Quizzes will be given regularly and will cover the material already discussed in class. Quizzes may be used to check attendance, or may be given when students leave early without letting me know prior to class. No make-ups allowed unless it is worked out with the instructor prior to the quiz.

Exams:

There will be 400 points (approximately 50% of total grade) possible on 4 exams (100 pts each) given throughout the semester. No notes or calculators will be allowed unless an exception has been made by the instructor. At no time shall students be allowed to use any other electronic devices, books, aides, or device that allows communication, or viewing/listening to information of any kind. **Coming late to an exam may result in an immediate 5% reduction to your grade at the instructors discretion.** If you are going to miss an exam contact me with as much prior notice as possible so we can discuss your situation. There will be no make-up exams, under extreme situations an exception may be made prior to the exam at the instructor's discretion.

Earning the right to replace your lowest exam score with the percent earned on the final:

If you do not miss any quizzes or exams, and you earn a 7 or above on all 4 of your Written HW checks, you can replace your lowest exam grade by replacing it with the percentage earned on the final. (Ex: You have taken every quiz **and** exam **and** scored a 7 or higher on each Written HW assignment then, if your lowest test score is a 72%, but you earn a 92% on the final exam, then your 72% will be replaced with a 92%.) **If you miss an exam during the semester and have not followed the correct procedure, you will earn a zero on that exam.** See the Attendance policy for what to do if you miss an exam due to an emergency. **You may not wear hats or listen to headphones during exams.**

Final Exam:

The final exam will be cumulative. The *last day of regular instruction* is **Thursday Dec 8th**. After this all your regular classes and my office hours are no longer valid and are rescheduled, as we are beginning a separate week consisting of the finals week schedule.

Our final exam is:

| | |
|-----------|--|
| MWF class | The final exam will be held on Friday, Dec 8th from 11:00am -12:50 PM in our regular room. |
|-----------|--|

Classroom Expectations:

You should act accordingly to being in an institution of higher learning. You are expected to behave in a courteous manner both toward your classmates and instructor. You are expected to adhere to FLC's Students Rights and Responsibilities policies in the FLC course catalog. If you must enter or leave the classroom at any time during class, please do so without disrupting the rest of the class. **If you are behaving in a manner that inhibits me from teaching or anyone around you from learning, you may be asked to leave at the discretion of the instructor.**

If you are asked to leave, at the instructors discretion:

- it will be for the remainder of the class period and for the next class session.
- you will not be able to make up any missed work or work that is due or assigned on days you were asked to leave.
- both days will count as absences and the incident may be reported to the Disciplinary Authority at FLC.

It is your responsibility to save all of your returned work and exams. This is your only record of the work you have completed.

Attendance:

Attendance is your responsibility. You are responsible for any missed material and should consult with your classmates to get caught up on what was missed. Truancy is defined as not being in class without having permission to not be there; this means coming late or leaving early from the regularly scheduled class times makes a person truant. Any truancy will be counted as $\frac{1}{2}$ an absence and any work turned in or due that day may not be accepted, graded, or considered. Missing an entire class period counts as 1 full absence. Coming late to an exam may result in an immediate loss of 5% of that exam grade. **Any tests or assignments missed due to absence is inexcusable unless you have been given approval by the instructor prior to the start of class.** In the case of an absence you should contact me immediately and prior to the start of class. **You will not be allowed to make up or turn in late work without approval of the instructor prior to the date due.** It is the responsibility of the student, and not the instructor, to process a class drop either online or in person. However **I may drop any student if their absences are excessive (FLC defines excessive absences to be 6% of the scheduled 90 hours of class meetings which is approximately 4 class sessions for classes that meet 3 days a week or 2 $\frac{1}{2}$ classes for courses that meet 2 days a week).**

Academic Integrity:

Please refer to the FLC Academic Code of Conduct in the college catalog if there are any ambiguities for what is expected from your academic integrity. Cheating may be punished swiftly and severely. If you are caught cheating on an exam, you may receive a zero on the exam and not be allowed to replace your score or take any kind of makeup. Further, you may not be allowed to submit any extra credit work. I may complete paperwork to ensure that there is a record of your dishonesty.

D.S.P.S Students:

If you qualify for D.S.P.S. **it is your responsibility to comply with their practices.** It is your responsibility to coordinate exam and quiz dates. You may not schedule exam and quiz dates any day after the regular exam/quiz date unless it is due to D.S.P.S. scheduling conflicts. Any conflict in your schedule is an unacceptable excuse to push back exam/quiz dates.

Helpful Tips:

Mathematics has a language of its own. Unless you quickly become adept at speaking that language, you will be lost during lecture. Please utilize my office hours or make an appointment with me to meet when you need help. Other help is available in the open **Math Lab in Cypress Hall (FL2) in room 246.** Private tutors can be available for hire, if you would like help finding a private tutor let me know and I will try to help you to find one. I highly recommend that you find a study partner and/or group, and make every effort to stay current in the class.

Tips for Success:

- 1) Study!! As Euclid of Alexandria is credited with saying, "There is no royal road to learning mathematics", meaning if you want to learn it you're going to have to study it like everyone else did.
- 2) Study in groups, with friends, strangers, or anyone willing to explain things to you. Study in the FLC Tutor Center in FL1-108 where tutors are available to help you on a first come first served basis. Set up a tent and make residence in there.
- 3) Study in Office hours, or just come in to say hi and ask a question.
- 4) Make sure you understand each homework assignment and can reasonably follow the class discussions. There truly is no such thing as a stupid question and in math the only thing that can make you look stupid is not asking your questions. Chances are you will look smart and odds are if you don't know, there are others who also do not.
- 5) **Study for the tests, quizzes and the final** by reading through your **class notes**. **Look over the examples completed in class, review any of the hints the instructor may have given during lessons** about "classic problems," problems "I really like" etc. Re-work some of the more difficult, challenging, or test like problems. **Look over previous exams, some questions may show up again.** **Study Every Day!** Even if you only read one section and did not understand it, or if you only study for 30 minutes, it is still much more than never studying for that day.
- 6) Most importantly, **KEEP A POSITIVE OUTLOOK!** Each day is a new chance to feel like you are capable, that you can understand math, and that you **WILL** succeed.

What I know you already know, but thought you could say you didn't know:

You are responsible for the information in this syllabus as well as any changes or additions announced in class (whether or not you are there to hear them). This syllabus is our mutual agreement of the expectations between the student and the instructor.

The Fine Print: The Instructor reserves the right to change any of the above policies after verbal/written notice in class.

Fall 2017 Final Exam Schedule

The final day of regular instruction for the semester is **Thursday, December 7**. For classes that are a combination lecture and lab, the final exam schedule is based on the time of the lecture.

| Class starts between these hours: | Class meeting days: | Date of Exam: | Time of Exam: |
|-----------------------------------|------------------------|------------------------|-------------------|
| 7:00AM - 8:00 AM | M-only or MWTh | Monday, December 11 | 7:00AM - 8:50AM |
| 7:00AM - 8:00 AM | T-only | Tuesday, December 12 | 7:00AM - 8:50AM |
| 7:00AM - 8:00 AM | W-only or MW | Wednesday, December 13 | 7:00AM - 8:50AM |
| 7:00AM - 8:00 AM | Th-only or TTh | Thursday, December 14 | 7:00AM - 8:50AM |
| 7:00AM - 8:00 AM | MWF | Friday, December 8 | 7:00AM - 8:50AM |
| 8:05AM - 9:30AM | M-only or MW | Monday, December 11 | 9:00AM - 10:50AM |
| 8:05AM - 9:30AM | T-only, TTh, or MTWTh | Tuesday, December 12 | 9:00AM - 10:50AM |
| 8:05AM - 9:30AM | W-only | Wednesday, December 13 | 9:00AM - 10:50AM |
| 8:05AM - 9:30AM | Th-only | Thursday, December 14 | 9:00AM - 10:50AM |
| 8:05AM - 9:30AM | F-only, WF, or MWF | Friday, December 8 | 9:00AM - 10:50AM |
| 9:35AM - 11:30AM | M-only or MTWTh | Monday, December 11 | 11:00AM - 12:50PM |
| 9:35AM - 11:30AM | T-only | Tuesday, December 12 | 11:00AM - 12:50PM |
| 9:35AM - 11:30AM | W-only or MW | Wednesday, December 13 | 11:00AM - 12:50PM |
| 9:35AM - 11:30AM | Th-only or TTh | Thursday, December 14 | 11:00AM - 12:50PM |
| 9:35AM - 11:30AM | F-only or MWF | Friday, December 8 | 11:00AM - 12:50PM |
| 11:35AM - 1:45PM | M-only, MW, or MTWTh | Monday, December 11 | 1:00PM - 2:50PM |
| 11:35AM - 1:45PM | T-only or TTh | Tuesday, December 12 | 1:00PM - 2:50PM |
| 11:35AM - 1:45PM | W-only | Wednesday, December 13 | 1:00PM - 2:50PM |
| 11:35AM - 1:45PM | Th-only | Thursday, December 14 | 1:00PM - 2:50PM |
| 11:35AM - 1:45PM | F-only or MWF | Friday, December 8 | 1:00PM - 2:50PM |
| 1:50PM - 3:55PM | M-only, MW, or MTWTh | Monday, December 11 | 3:00PM - 4:50PM |
| 1:50PM - 3:55PM | T-only | Tuesday, December 12 | 3:00PM - 4:50PM |
| 1:50PM - 3:55PM | W-only | Wednesday, December 13 | 3:00PM - 4:50PM |
| 1:50PM - 3:55PM | Th-only or TTh | Thursday, December 14 | 3:00PM - 4:50PM |
| 1:50PM - 3:55PM | F-only, MWF, or MTWThF | Friday, December 8 | 3:00PM - 4:50PM |
| 4:00PM - 4:15PM | M-only or MW | Monday, December 11 | 4:00PM - 5:50PM |
| 4:00PM - 4:15PM | T-only or TTh | Tuesday, December 12 | 4:00PM - 5:50PM |
| 4:00PM - 4:15PM | W-only | Wednesday, December 13 | 4:00PM - 5:50PM |
| 4:00PM - 4:15PM | Th-only | Thursday, December 14 | 4:00PM - 5:50PM |
| 4:00PM - 4:15PM | F-only or MWF | Friday, December 8 | 4:00PM - 5:50PM |
| 4:20PM - 6:00PM | M-only or MW | Monday, December 11 | 6:00PM - 7:50PM |
| 4:20PM - 6:00PM | T-only or TTh | Tuesday, December 12 | 6:00PM - 7:50PM |
| 4:20PM - 6:00PM | W-only | Wednesday, December 13 | 6:00PM - 7:50PM |
| 4:20PM - 6:00PM | Th-only | Thursday, December 14 | 6:00PM - 7:50PM |
| 4:20PM - 6:00PM | F-only or MWF | Friday, December 8 | 6:00PM - 7:50PM |
| 6:05PM - 9:00PM | M-only | Monday, December 11 | 8:00PM - 9:50PM |
| 6:05PM - 9:00PM | T-only or TTh | Tuesday, December 12 | 8:00PM - 9:50PM |
| 6:05PM - 9:00PM | W-only or MW | Wednesday, December 13 | 8:00PM - 9:50PM |
| 6:05PM - 9:00PM | Th-only | Thursday, December 14 | 8:00PM - 9:50PM |
| 6:05PM - 9:00PM | F-only or MWF | Friday, December 8 | 8:00PM - 9:50PM |

The last day of regular instruction is Thursday, December 7. Finals start on Friday, December 8.

Full-term Saturday-only classes meet at normal time for 2 hours on Saturday, December 9.

Finals for first 8-week session and second 8-week session classes are held on the last day of class.