

Syllabus: Math 41 (Section 24), Winter 2018

4:00 – 6:15 PM, Room L27

Instructor: Dr. Bill Wilson

Office Hours: 2:45-3:45 Monday, Wednesday in E37

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Required Materials: Precalculus with Limits (3rd edition) by Ron Larson
Graphing calculator

Course Objectives:

- A. Examine the definition of a function and investigate the implications and properties of this concept
- B. Explore graphs of functions of the form $y = f(x) = x^m$
- C. Create new functions from existing functions
- D. Graph and analyze exponential and logarithmic functions and solve related equations
- E. Graph and analyze polynomial functions and solve related equations and inequalities
- F. Graph and analyze rational functions and solve related equations and inequalities
- G. Graph and analyze conic sections in rectangular coordinates
- H. Examine the logic of conditional and bi-conditional statements as they appear in mathematical statements

Homework: Homework will be assigned most classes.

Exams: Three exams will be given plus the final exam. There will be no makeups. If an exam is missed because of a valid excuse, an equivalent of the final exam score will be used as the score for the missed exam.

Quizzes: Regular quizzes will be given. You may correct and resubmit two quizzes for a higher score.

Final Exam: A comprehensive final exam will be given on 12/28/18 from 4-6pm

Accommodations: Students requiring accommodations are welcome in this class. Please notify me immediately if you have special learning requirements. We need to make arrangements with DSS as soon as possible. Go to <https://www.deanza.edu/dss/> for more information.

Grading: 3 midterms @ 15% = 45%
homework and class work: 10%

quizzes: 15%
final exam: 30%

Scale: A: 93+ A-: 90+
 B+: 87+ B: 83+ B-: 80+
 C+: 77+ C: 70+
 D: 60+
 F: < 60

ESL: If English is a second language, a print English translation dictionary is allowed for exams/quizzes

Expectations of Students:

1. **Academic dishonesty will not be tolerated.** If a student is found cheating on an exam or quiz, he or she will receive a 0 for the item. Repeated instances of cheating may lead to failing the course and further action.
2. **Showing your work.** You need to show your work on homework and exams to receive full credit.
Respect you fellow students. Silence cell phones and tablets in class.

Student Learning Outcome(s):

*Investigate, evaluate, and differentiate between algebraic and transcendental functions in their graphic, formulaic, and tabular representations.

*Synthesize, model, and communicate real-life applications and phenomena using algebraic and transcendental functions.