

MATH-114-17 MTWThF: 12:30pm-1:20pm in E36

INSTRUCTOR: Dr. Iaroslav Kryliouk **OFFICE:** S76C

PHONE: (408)-864-8865

E-MAIL: krylioukiaroslav@fhda.edu

OFFICE HOURS: Daily, 9:45am-10:15am in S76C; daily, 1:30pm-2:00pm, except Friday, in S76C.

Tutorial Center: S43

Student Learning Outcomes for the course:

Outcome 1: Evaluate real-world situations and distinguish between and apply exponential, logarithmic, rational, and discrete function models appropriately.

Outcome 2: Analyze, interpret, and communicate results of exponential, logarithmic, rational, and discrete models in a logical manner from four points of view---visual, formulaic, numerical, and written.

Course Description: Application of exponential and logarithmic functions, rational functions, and sequences and series to problems. Emphasis on the development of models of real life applications and interpretation of their characteristics.

Text: Robert Blitzer, “*Intermediate Algebra* for college students”, 5th edition, Pearson, 2009.

Related Materials: pencils, ruler, eraser, stapler, and pencil sharpener. **Bring your textbook, notes, and all related material every day!!!**

A graphing calculator TI-83+, or TI-84+, or TI-84 is recommended. For demonstration purposes one of these calculators will be used in the class. If you have another calculator, which you know how to use, you may use it.

Pre-requisite: Qualifying score on the Math Placement Test within the last calendar year; or MATH 212 with a grade of C or better.

Class rules: **You are expected to attend all classes on time.** If you miss 3 class meetings you may be dropped from the class. (No walking in and out, please). Private conversations during class are not permitted. Cell phones and pagers should be turned off. Cheating is not tolerated. **Please respect other students’ right to learn!**

Homework: Reading each section before class helps you understand the lecture. Your written homework (HW) for each class will be assigned problems in the section covered in class and is due at the beginning of the next class period. You must **show your work** to get credit. Your HW should be written thoroughly with all steps shown, in well organized manner using pencil #2 and lined 8.5x11” paper. About 80% of your homework assignment will be collected and graded on completeness.

Quizzes: There will be about 15 quizzes. No make up for missed quizzes. The lowest 2 scores will be dropped.

Tests: There will be three (3) tests worth 100 points each. Material from any lecture, homework assignment, or quiz can appear as a test question.

The tentative schedule (subject to revision) of tests and the material covered is the following:

Test 1: Jan 26, Sec. 6.1-6.8

Test 2: Feb 22, Sec. 7.1-7.6, 4.2, 4.3, 10.1

Test 3: March 11, Sec. 9.1-9.6

Makeup Tests: There are no make-up tests, *under any circumstances*. If a test is missed, the percentage on the final exam will replace the score of the missing exam. If a second exam is missed, the grade will be a zero.

The lowest score of 3 regular tests will be replaced by a percentage on the final exam, provided the latter is higher.

Final Exam: There will be a mandatory comprehensive two-hour final exam worth 150 points, and this exam *must* be taken during the scheduled exam time on Wednesday, March 23, 11:30am-1:30pm, in E36.

Attendance: You are expected to attend all classes on time. If you miss 3 class meetings, you may be dropped from the class. However this is your responsibility to drop the course officially if you decide not to attend any longer.

Final Grade: Your final grade will be determined based on the following:

Grading Scale:

| | | | |
|--------------|-----------|-------------------------|-------------------------|
| Quizzes | 150 pts | X \geq 731 (97.5%)=A+ | X \geq 543 (72.5%)=C+ |
| Test 1 | 100 pts | X \geq 693 (92.5%)=A | X \geq 487 (65%)=C |
| Test 2 | 100 pts | X \geq 675 (90%)=A- | X \geq 450 (60%)=D+ |
| Test 3 | 100 pts | X \geq 656 (87.5%)=B+ | X \geq 412 (55%)=D |
| HW | 150 pts | X \geq 618 (82.5%)=B | X \geq 375 (50%)=D- |
| | | X \geq 600 (80%)=B- | X < 375 (50%)=F |
| Final Exam | 150 pts | | |
| Total Points | X=750 pts | | |

Missing one of the major tests is made up through added weight on the comprehensive final exam. Missing additional test results in a score of zero.

***** NO OTHER MAKE-UPS WILL BE GIVEN*****

A grade of "I" (incomplete) will be given at the instructor's discretion, if:

- i) A student has successfully completed at least 75% of the course work, and
- ii) has shown acceptable evidence which justifies his/her incomplete work.

Important Dates:

Monday, Jan 4-Winter quarter classes begin

Saturday, Jan 9-Last day to drop for a refund for out-of-state or foreign students

Saturday, Jan 16-Last day to add/drop for a refund or credit for residents

Monday, Jan 18-Last day to drop a class with no record of grade (Drop date is enforced)

Monday, Jan 18-Observance of Martin Luther King's Birthday

Tuesday, Jan 26-Test 1 (Sec. 6.1-6.8)

Friday, Jan 29-Last day to request P/NP grade

Friday, Feb 12-Observance of Abraham Lincoln's Birthday

Monday, Feb 15-Observance of George Washington's Birthday

Monday, Feb 22-Test 2 (Sec. 7.1-7.6, 4.2, 4.3, 10.1)

Friday, Feb 26-Last day to drop with a "W" (withdraw date is enforced)

Friday, March 11-Test 3 (Sec. 9.1-9.6)

Friday, Mar 18- Last day of classes

Wednesday, March 23 -Final exam 11:30am-1:30pm, in E36

*** (N.B.: It is the student's responsibility to complete the withdrawal process. Student who stop attending class are NOT automatically dropped. A student who stops attending class and does not complete the withdrawal process receives the grade of "F")

Academic Misconduct: Academic dishonesty will not be tolerated. If a student is found cheating on an exam, plagiarizing on writing assignments, or violating other codes of academic integrity, he or she will receive a failing grade for the course and may be reported to the college for an appropriate action. See section on Academic integrity in your current schedule of classes catalog.

If you are student with a disability: If you fill that you may need accommodation based on impact of a disability, you should contact me privately to discuss your specific needs. Also, please contact Disability Support Services (864-8753) or Educational Diagnostic Center (864-8839) for information or questions about eligibility, services and accommodations for physical (DSS), psychological (DSS) or learning (EDC) disabilities.

TENTATIVE CALENDAR

| | MONDAY | TUESDAY | WEDNESDAY | THURSDAY | FRIDAY |
|-----|--------------------------------------------------|----------------------------|----------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|
| JAN | 4 1.6 | 5 1.6 | 6 6.1 | 7 6.2 | 8 6.2 <i>Quiz 1</i> Jan 9, Last day to drop for a refund for out-of-state or foreign students |
| JAN | 11 6.3 | 12 6.3 <i>Quiz 2</i> | 13 6.4 | 14 6.5 | 15 6.6 <i>Quiz 3</i> Saturday, Jan 16, Last day to add Last day to drop for a refund Monday, Jan 18, Last day to drop with no record |
| JAN | 18 Observance of M-L King's Birthday | 19 6.6 | 20 6.7 | 21 6.8 <i>Quiz 4</i> | 22 6.8 |
| JAN | 25 <i>Review for Test 1</i> | 26 TEST 1 | 27 7.1 | 28 7.2 | 29 7.3 Last day to request Pass/No Pass grade |
| FEB | 1 <i>Quiz 5</i> | 2 7.4 | 3 7.4 <i>Quiz 6</i> | 4 7.5 | 5 7.6 <i>Quiz 7</i> |
| FEB | 8 7.6 | 9 4.2 | 10 4.2 <i>Quiz 8</i> | 11 4.3 | 12 Observance of Abraham Lincoln's Birthday |
| FEB | 15 Observance of George Washington's Birthday | 16 4.3 <i>Quiz 9</i> | 17 10.1 | 18 10.1 | 19 <i>Review for Test 2</i> |
| FEB | 22 TEST 2 | 23 9.1 | 24 9.2 <i>Quiz 10</i> | 25 9.2 | 26 9.3 <i>Quiz 11</i> Last day to drop w/"W" |
| MAR | 29 9.3 | 1 9.4 <i>Quiz 12</i> | 2 9.4 | 3 9.5 | 4 9.5 <i>Quiz 13</i> |
| MAR | 7 9.6 | 8 9.6 <i>Quiz 14</i> | 9 Review | 10 Review | 11 TEST 3 |
| MAR | 14 11.1 | 15 11.1 | 16 11.2 <i>Quiz 15</i> | 17 11.2 | 18 11.3 |
| MAR | 21 | 22 | 23 Final Exam 11:30-1:30pm | 24 | 25 |

Home Assignments

- 1.6 ## 1-46 (every other even),125,126
6.1 ## 4,7,9,17-26,28,30,32,42,4,48,54,58,66,109-112
6.2 ## 2-28(every other even),30,32,36,38,42,46,48,54,56,60
6.3 ## 1,4,8,10,14,18,24,26,28,30,32,51
6.4 ## 2,4,12,14,18,22,34,38,55-58
6.5 ## 2,4,6,12,20,24,28,30
6.6 ## 2-38(every other even),62
6.7 ## 1-14(odd),19,25,31,39,43,51
6.8 ## 2,4,8,22,24,25,29,34,35,36,37,39
- 7.1 ## 1-10(even),21,25,27,31,35,48,52,60,64,69,72,101,103,109
7.2 ## 1-8,11,17,19,21,24,29,36,39,41,48,59,64,69,73,79,82,91,99,103,105,127,129
7.3 ## 2,7,9,13,17,24,29,30,47,53,67,69,73,95,96
7.4 ## 1,3,7,9,11,17,23,25,31,35,39,46,50,55,57
7.5 ## 1,5,9,12,13,17,23,28,29,40,44,49,54,75,76,79,88,106,113,117
7.6 ## 1-38(every other odd), 51-54,59,60
- 4.2 ## 1,2,3,7,9,15,19,25-32(even),33,35,40,42,43,49,55,79,80,81,83
4.3 ## 1,7,13,17,19,21,26,29,42,46,47,49,91,93,97
- 10.1 ## 2,6,12,20,24,33,35,42,46,49,52,62,68
- 9.1 ## 1,7,11-16,17,22,25,30,35,37,39,41,53,54,55,59,63
9.2 ## 1,5,7,9,13,15,18,19,26,28,30,31,39,41,49,71,75
9.3 ## 1,3,7,12,13,17,21-42,43,45,47,50,53-66,68,70,91,93
9.4 ## 3,8,13,20,25,26,28,31,37,39,43,44,47,52,56,71,93
9.5 ## 3,8,13,16,20,21,24,25,28,35,43,49,53,67,70,88,103-106,113,115
9.6 ## 1-5,12,13,15,17,19,23,26,29
- 11.1 ## 1,4,7,9,13,18,21,25,27,32,35,37,39,41,42,61
11.2 ## 1,4,7,11,17,18,23,26,27,35,38,39,40,41,43,45,65,69,89
11.3 ## 2,4,11,12,14,16,20,25,27,33,36,40,44,45,49,52,53,56,57,78,85,91