

Meeting Information: Tuesday/Thursday; 5:30 pm – 7:20 pm; HEC 216

Instructor: Jeremy Knight, Mathematics Instructor

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Website: www.knightmath.com/algebra/math95

Department Phone #: 541-245-7527

Prerequisites: MATH 65, or College Algebra placement score of 20-35.

Text: Intermediate Algebra Lynn Marecek, OpenStax, 2017; (link in MyOpenMath course page)

Tools and Supplies: TI-83/84 graphing calculator or mobile Device with Desmos App.

Course Description: Intermediate Algebra concludes the developmental mathematics sequence. It includes an introduction to the study and application of quadratic, radical, exponential, and logarithmic expressions and functions. Working with real data and the mathematics of curve fitting will be developed using the graphing calculator.

Course Objectives:

1. Use mathematical problem solving techniques involving quadratic, radical, exponential, and logarithmic expressions and functions. These techniques include data fitting and the use of graphical, symbolic, narrative and tabular representations.
2. Create quadratic, exponential, and logarithmic models of real world situations.
3. Use inductive reasoning to develop mathematical conjectures involving quadratic, square root, exponential, and logarithmic models. Use deductive reasoning to verify and apply mathematical arguments involving quadratic, square root, exponential, and logarithmic models.
4. Make mathematical connections to, and solve problems from, other disciplines that can be represented using quadratic, square root, exponential, and logarithmic models.
5. Use oral and written skills to individually and collaboratively communicate about quadratic, square root, exponential, logarithmic, and conic section expressions and functions.
6. Use appropriate technology to enhance mathematical thinking and understanding of, and to solve, quadratic, square root, exponential, and logarithmic mathematical problems, and judge the reasonableness of their results.

Evaluation and Scoring: (grades will be posted in MyOpenMath)

| | |
|---|-----|
| 3 In-Class Chapter Tests | 50% |
| Final Exam | 20% |
| MyOpenMath Homework on the Internet | 15% |
| Take Home Quizzes and Projects | 15% |

Tests: must be taken on the scheduled day unless **prior** arrangements are made at least 2 days before the test. Failing to show up on test day without notice will result in a 20% deduction. Make up tests must be completed within 1 week of the test date.

MyOpenMath: *Online Course Companion*
 These assignments are due 1 week after they are covered in class. No adjustments will be made to this deadline. You should do the problems on paper first; it will not benefit you to “click” answers and lean too heavily on the 3 tries that you are allowed.

Enroll online at <http://myopenmath.com>
Course ID: 43894 **Enrollment Key:** KNIGHT

Take Home Quizzes: due on dates listed on the calendar. Late work will not be graded, even if you are absent, unless prior arrangements are made. You may work/consult with classmates, but the work you turn in must be your own. If you are unexpectedly absent, email me your assignment before class time. Please complete these in a neat and professional manner using *pencil!*

Suggestions:

1. Read the chapter **before** we discuss it in class so you are able to ask good questions and assimilate the material more completely.
2. Do your assigned homework the day after we cover it, not the night before it is due.
3. Ask questions, be curious and connect what you are learning to life beyond the classroom.
4. Attendance is critical ... email me if you have to miss ... I like to know.

Math 95 Quiz Due Dates

- QUIZ #1:** Sections 8.1-8.4 (DUE Jan. 17)
- QUIZ #2:** Sections 8.5-8.8 (DUE Jan. 29)
- QUIZ #3:** Sections 9.1-9.3 (DUE Feb. 12)
- QUIZ #4:** Sections 9.4-9.7 (DUE Feb. 19)
- QUIZ #5:** Sections 10.1-10.2 (DUE Mar. 5)
- QUIZ #6:** Sections 10.3-10.5 (DUE Mar. 12)

Tentative Course Calendar

Below is the tentative schedule for our class this term. The test dates will be firm and will not change, but some of the content taught on certain dates may change as needed.

| | Week | Date | Tuesday | Date | Thursday |
|----------|------|------|---|------|--|
| January | 1 | 8 | <ul style="list-style-type: none"> • Course Introduction & Review • Intro. to Functions & Intervals | 10 | <ul style="list-style-type: none"> • 8.1: Simplify Expressions w/ Roots • 8.2: Simplify Radical Expressions |
| | 2 | 15 | <ul style="list-style-type: none"> • 8.3: Simplify Rational Exponents • 8.4: +, -, × Radical Expressions | 17 | <ul style="list-style-type: none"> • 8.5: Divide Radical Expressions. • 8.6: Solve Radical Equations |
| | 3 | 22 | <ul style="list-style-type: none"> • 8.6: Solve Radical Equations • 8.7: Use Radicals in Functions | 24 | <ul style="list-style-type: none"> • 8.8: Complex Numbers |
| | 4 | 29 | <ul style="list-style-type: none"> • Ch 8 Review | 31 | <ul style="list-style-type: none"> • Ch. 8 Test |
| February | 5 | 5 | <ul style="list-style-type: none"> • Factoring Review • 9.1: Square Root Property | 7 | <ul style="list-style-type: none"> • 9.2: Completing the Square • 9.3: Quadratic Formula |
| | 6 | 12 | <ul style="list-style-type: none"> • 9.4: Quadratic in Form • 9.5: Apps. Of Quadratics | 14 | <ul style="list-style-type: none"> • 9.6: Graphing Quadratics • 9.7: Quadratic Functions and Transformations |
| | 7 | 19 | <ul style="list-style-type: none"> • Unit 9 Review | 21 | <ul style="list-style-type: none"> • Unit 9 Test |
| | 8 | 26 | <ul style="list-style-type: none"> • 10.1: Composite & Inverse Functions | 28 | <ul style="list-style-type: none"> • 10.2: Evaluate and Graph Exponential Functions |
| March | 9 | 5 | <ul style="list-style-type: none"> • 10.3: Evaluate and Graph Logarithmic Functions | 7 | <ul style="list-style-type: none"> • 10.5: Solve Exponential and Logarithmic Equations |
| | 10 | 12 | <ul style="list-style-type: none"> • Review | 14 | <ul style="list-style-type: none"> • Unit 11 Test |
| | 11 | 19 | <ul style="list-style-type: none"> • REVIEW | 21 | <ul style="list-style-type: none"> • FINAL EXAM |

General Expectations and other Info:

1. **Regular Study Time:** Budget an hour or more each day to “practice” your math skills. Students are greatly encouraged to form study groups and work together to understand, discuss the material, and check the answers and process on homework assignments.
2. **The Tutoring Center** is available for any math students who seek help. The math and science tutors are scheduled with variable availability from 8:30am to 5:00pm Mon-Thur. Seek out the tutors who are providing help at the math level you need. The tutors are there to explain problem-solving methods and algebraic principles. **The tutors are not expected to do homework for you.**
3. **Attendance:** Attendance is critical ... email me if you have to miss ... I like to know. If you are not able to attend class, it is your responsibility to obtain all material missed. Each student is expected to attend regularly, take notes, ask questions in class, & participate in activities. If there are complaints or questions about the rules, expectations, grading, or tests, please talk with me outside of class about your concerns.
 - **Administrative Drop:** students who do not attend at least 50% of the class sessions during the first week of school and who do not contact the instructor to indicate a plan to attend will be automatically dropped from the class during the 2nd week of the term.
 - **Refund policy:** Students dropping a class by 11:59 p.m. on Wednesday of the second week of the term get a full refund. After that there is no refund.
 - **Withdrawal from class:** A student may withdraw from a class between the Thursday of Week 2 and the Friday of Week 8 at 11:59 pm. (Week 5 during summer term). A grade of W will be assigned.
4. **Classroom Behavior:** Simply put...be nice to me AND each other. All students are expected to follow usual academic behavior and participate in an orderly manner. Please come to class ON TIME, wandering in or out of the classroom is not acceptable behavior. Common courtesy and civility prevail as stated in the RCC Student Code of Conduct in RCC Schedule of Classes. Cell phones should be **off** during class. Expectations for classroom behavior are outlined in the Student Code of Conduct, available in the catalog, schedule, and online. Students may not engage in any activity which the instructor deems disruptive or counterproductive to the goals of the class. Instructors have the right to remove students from class for not following the Code of Conduct or other specified classroom rules.
5. **Plagiarism:** Cheating, plagiarism, and other forms of academic dishonesty are unacceptable and are subject to disciplinary action which may include a zero for the test or homework, a failing grade for the course, or expulsion from RCC, depending on the severity of the infraction.
6. **Disability Services:** Any student who feels that he or she may need academic accommodations for a disability, such as vision, hearing, orthopedic, learning disabilities, psychological or other medical conditions, should make an appointment with the Disability Services Office.
Redwood Campus (Wiseman Tutoring Center):
Phone: 541-956-7337; Fax: 541-471-3550; Oregon Relay Service: 7-1-1
Riverside and Table Rock Campuses (main office: Riverside Campus B-9):
Phone: 541-245-7537; Fax: 541-245-7649; Oregon Relay Service: 7-1-1
For more information, go to <http://www.roguecc.edu/disabilityservices/>.
7. **If accident, illness,** or other crisis interferes with completing the math course this quarter, it is recommended you drop the class by the official withdrawal "W". Incompletes generally will not be given. If 75% or more of the course work has been successfully completed, incompletes **might** be given for a special case that is evaluated on an individual basis, but not in lieu of a poor grade.
8. **Student Evaluations of this Course: (What Do You Think)** Students will receive an RCC email around the 8th week of each term to complete online evaluations on each course they are enrolled in. Full instructions for accessing and completing the evaluations will be in the reminder email. These evaluations are anonymous and will not be released to the teachers until after the term is over. They provide valuable feedback to faculty about your experiences in and impressions of the course.
9. **Discrimination, Harassment and Sexual Violence Policies:** RCC is committed to ensure that its learning and working environments are free from all forms of discrimination and harassment, including sexual harassment. Therefore, it is a violation of College policy for any employee, student or third-party at RCC to engage in these practices. In addition, RCC has a zero tolerance for sexual assault, stalking, intimate partner or domestic violence, dating violence and workplace violence. Anyone

found participating in any of these activities will be subject to disciplinary action and prosecuted in accordance with RCC policies and procedures and Oregon state laws. For more information, go to <http://web.roguecc.edu/title-ix-and-sexual-misconduct>

10. **Safety:** The College assists in keeping the campus safe, but a safe campus can only be achieved through the efforts and cooperation of all students, faculty, and staff. For information on safety services, go to <https://www.roguecc.edu/safety/>

11. **Smoking restrictions:** Smoking is not permitted on the premises of Rogue Community College except in designated areas. For more information go to: <http://web.roguecc.edu/board-policies>