SYLLABUS

Intermediate Algebra

(MAT\* 137)

(CRN # 33102)

Three Rivers Community College

Norwich, CT 06360

Prof. Gregory F Petranek

Instructor

Email: gpetranek@trcc.commnet.edu

Office Hours: 1:30-pm – 1:45pm Monday Room D205

1:30pm – 1:45pm Wednesday Room D205

Other Times by email or after class

Semester: Fall 2018

Class Times:

Monday 1:30pm – 3:15pm Rm D105(Class Instruction)

Wednesday 1:30pm – 3:15pm Rm D105(Class Instruction)

Our ALEKS course code is:

**ERWUT-DKGYJ**

**Course Description:**

### MAT\* K137 - Intermediate Algebra

Prerequisite: [***MAT\* K095***](https://catalog.threerivers.edu/content.php?catoid=5&catoid=5&navoid=250&filter%5Bitem_type%5D=3&filter%5Bonly_active%5D=1&filter%5B3%5D=1&filter%5Bcpage%5D=4#tt3317) or [***MAT\* K095I***](https://catalog.threerivers.edu/content.php?catoid=5&catoid=5&navoid=250&filter%5Bitem_type%5D=3&filter%5Bonly_active%5D=1&filter%5B3%5D=1&filter%5Bcpage%5D=4#tt5922) with a “B-#” grade or better or appropriate placement∞ through multiple-measures assessment process.
This course cultivates understanding and different representations of functions. Topics covered include linear, quadratic, exponential, rational, radical functions, equations, and expressions with emphasis on modeling and solving real world problems. A graphing calculator is required. Instructor will use a Texas Instrument calculator (TI-84). This course requires ALEKS software. Please refer to the syllabus section for more info.

**Learner Course Outcomes**

At the end of this course the students will be able to:

1. Factor quadratic expressions

2. Solve problems that model real world situations using quadratic equations with rational roots

3. Understand the importance of the Pythagorean Theorem in modern algebra

4. Graph a circle using a TI-84 (or equivalent) graphing calculator

5. Simplify radical expressions and solve radical equations

6. Understand negative exponents and fractional bases of exponential expressions

7. Solve problems that require the use of quadratic equations including the quadratic formula

8. Graph to find the x intercepts and vertex of a parabola

9. Sole word problems that involve the maximum or minimum of a function

10. Solve problems by simplifying polynomials

11. Solve problems involving proportions, rational equations.

12. Understand methods of indirect measurement

**Method of Evaluation**

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| --- | --- |
| Quizzes (4) | 200 (50 points each) |
| ALEKS Mastery | 100 points |
| Attendance | 100 points |
| Midterm ExamFinal Exam (1) | 300 points300 points |
|  |  |
| **Total** | **1000 points** |
|  |  |

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| --- | --- |
| **Grades** | **Equivalent Points** |
| A | 930 - 1000 |
| A- | 900 - 929 |
| B+ | 870 - 899 |
| B | 830 - 869 |
| B- | 800 - 829 |
| C+ | 770 - 799 |
| C | 730 - 769 |
| C- | 700 - 729 |
| D+ | 670 - 699 |
| D | 630 - 669 |
| D- | 600 - 629 |
| F | Below 600 |

**No Make-ups**

Tests that are missed will only be available for make-up if the student has an extenuating circumstance and has spoken to the instructor **prior** to the test. **Most make-up tests for this class are given at the testing center located near the cashiers office.**

**Attendance**

Attendance is taken **every** class periodand is essential in successfully completing this course. Attending class regularly is expected and will be a factor in my evaluation of student performance.

**Required Text and Required Graphing Calculator**

**1. ALEKS 360 Access Code (purchase at TRCC bookstore or online at http://www.aleks.com)**

Author: Baratto

ISBN: 9780077843052

Copyright Year: 2014

Publisher: McGraw-Hill

**Purchase an ALEKS 360 access code at the TRCC Bookstore or online at http://www.aleks.com and register for this course (ERWUT-DKGYJ) at** [**www.aleks.com**](http://www.aleks.com/) **as soon as possible.**

**2. A TI84 or TI84 Plus graphing calculator is required for this course. I do not teach any other calculator. If you own a TI83 or TI86, you will have to learn the specific calculator functions on your own.**

**ALEKS**

An interactive website that is available to you 24/7, whereas our total class time each week is less than 4 hours. ALEKS is an incredibly powerful tool to help you master the concepts in this course.

 **IMPORTANT** - The **ALEKS 360 code** ***is required*** to successfully complete this course. A digital copy of the text book is included in your ALEKS access code you purchase at the TRCC bookstore or onlline.

 Our ALEKS course code is **ERWUT-DKGYJ**

 You must purchase the separate access code.

**Academic Integrity Policy**

Academic integrity is essential to a useful education. Failure to act with academic integrity severely limits a person’s ability to succeed in the classroom and beyond. Furthermore, academic dishonesty erodes the legitimacy of every degree awarded by the college. In this class and in the course of your academic career, present only your own, best work.

**College Withdrawal Policy**

A student who finds it necessary to discontinue a course must complete a withdrawal form in the Registrar’s Office. The deadlines to withdraw are printed in the Academic Calendar on the TRCC website. Students who do not withdraw but stop attending classes will be assigned “F”. Eligibility for refund of tuition is based upon the date of withdrawal when received by the Registrar’s Office.

**Disabilities Statement**

If you have a hidden or visible disability which may require classroom or test taking modifications, please see me as soon as possible. If you have not already done so, please be sure to contact the Student Development Office, 860.383.5217, to register with a disability specialist.

**Digital Phones, Beepers. Laptops, Iphones, etc**

All electronic devices are allowed in the class or in the Learning Resource Center **ONLY *if they are turned off (except for graphing calculators).***  **Under no circumstances are digital phones to be answered in class.** When there are extenuating circumstances that require that a student be available by phone or beeper, the student should speak to the instructor prior to class, so that together they can arrive at an agreement.

**Assessments**

Homework/Assessments are completed using ALEKS, accessed by going to **http://www.aleks.com** , and logging into this course: **ERWUT-DKGYJ**

**Additional Help**

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| Additional help and math assistance is available at the college math/computer lab tutoring center. The Three Rivers Math Computer Lab is located on the TRCC Campus at the Tutoring and Student Success Center (TASC) in Room C117.**Open Computer Lab**There is an open computer lab in the E-Wing, Room E112, that can be used to access ALEKS for those that need computer time.**Digication**As a student you will maintain an online learning portfolio using a college-designed template in Digication. (your e-portfolio) Through this electronic tool you will have the opportunity to monitor your own growth in college-wide learning. It may even help you determine a major that is best suited to you. You will be able to keep and maintain your learning portfolio after graduation. A Three Rivers General Education Assessment Team will select and review random works to improve the college experience for all. If your work is selected and reviewed for assessment purposes, it will remain anonymous and private. Digication provides a place where you will connect your learning from the classroom, college, and life in general.Sometimes when you review all of the work you have done and think about it, you end up learning something different and perhaps unexpected. Please review your course outlines to determine what assignments to upload into the TRCC Digication template and please post your own choices, as well. Have fun in learning! |
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Course Outline/Assigned Homework (subject to change)

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| **Date** | **Class Instruction** | **Homework** |
| 09-19 W  | Introduction to course, register with ALEKS, | Complete initial knowledge checkby 9/23/18 |
| 09-24 M | Chapter 6.1 | Homework - ALEKS |
| 09-26 W | Chapter 6.2 |  |
| 10-01 M | Ch 6.3 |  |
| 10-03 W  | Ch 6.4 |  |
| 10-08 M | Ch 6.5 |  |
| 10-10 W | Ch 6.6 | Complete ALEKS Mastery Ch 6 |
| 10/11 - 10/14 |  | ALEKS Quiz #1 |
| 10-15 M | Ch 7.1 |  |
| 10-17 W | Ch 7.2, 7.3 |  |
| 10-22 M | Ch 7.4, 7.5 |  |
| 10-24 W | Ch 7.6 | Complete ALEKS Mastery Ch 7 |
| 10/25 - 10/28 |  | ALEKS Quiz #2 |
| 10-29 M | Review |  |
| 10-31 W | MidTerm exam |  |
| 11-05 M | **Exam Review** |  |
| 11-07 W | Ch 8.1 |  |
| 11-12 M | Ch 8.2 |  |
| 11-14 W | Ch 8.3 |  |
| 11-19 M | Ch 8.4 | Complete ALEKS Mastery Ch 8 |
| 11/20 - 11/25 |  | ALEKS Quiz #3 |
| 11-21W | **NO CLASS** | **Thanksgiving Recess** |
| 11-26 M | Ch 9.1 |  |
| 11-28 W | Ch 9.2 |  |
| 12-03 M | Ch 9.3, 9.4 |  |
| 12-05 W | Ch 9.5, 9.6 | Complete ALEKS Mastery Ch 9 |
| 12/06 - 12/09 |  | ALEKS Quiz #4 |
| 12-10 M | Review |  |
| 12-12 W | **Final Exam** |  |
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