**Kankakee Community College Syllabus**

**Course prefix and number**: MATH 1113 **Semester:** Spring 2014

**Course title**: Technical Mathematics I

**Credit hours**: 3  **Lecture hours:** 3 **Lab:** 0

**Catalog description:** Prerequisite: MATH 0993 with a grade of C or better or MATH 1213 with a grade of C or better or appropriate assessment score. This course concentrates on real number operations, measurements, plane and solid geometry, algebraic operations (including factoring, fractions, and exponents), linear functions, and inequalities (including their graphs). *AAS: Mathematics elective.*

**Faculty**

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**Textbooks and Materials**

Introduction to Technical Mathematics 5th ed., with MyLabsPlus access code by Washington, Triola, and Reda.

**Course goals and learning outcomes**

 Upon completion of this course, you will be able to:

1. Perform the four basic arithmetic operations on whole numbers, fractions, mixed numbers, and decimals.
2. Find prime factors and the LCM of numbers.
3. Convert percents to decimal and fractional notation.
4. Calculate powers and roots.
5. Perform basic mathematical functions using a scientific calculator.
6. Convert measurements between the metric system and the U.S. Customary System.
7. Change measurements within the metric system and the U.S. Customary System.
8. Perform calculations with significant digits.
9. Round numbers correctly.
10. Perform addition, subtraction, multiplication, division and order of operations on signed numbers.
11. Simplify algebraic expressions and formulas.
12. Apply laws of exponents to the simplification of expressions.
13. Perform addition, subtraction, multiplication and division on monomials and polynomials.
14. Calculate perimeter, area, and volume of basic geometric figures.
15. Solve simple and literal equations and inequalities.
16. Write and solve equations from applied problems.

**General Education Goals and Objectives**

The general education program at KCC is designed to enable students to acquire communication and reasoning skills at a level reflecting college-level learning. Students who complete the general education program will be able to examine complex topics and apply systematic processes to form conclusions. The specific general education objectives addressed in this course are:

**Communication:** Students will communicate with precision, clarity, fluency, accuracy, and coherence through their reading, writing, and verbal communications.

**Quantitative Reasoning:** Students will reason and solve quantitative problems from a wide array of contexts.

**Evaluation**

MyLabsPlus:

Homework will be completed using KCC’s MyLabsPlus, <http://kcc.mylabsplus.com> . You will need to purchase the MyLabsPlus access code with your text book, at the KCC Bookstore or Directly from the KCC MyLabsPlus website. There is a homework assignment for each section which will be due the next Tuesday or before each Chapter Test. You may work on the assignments at home or at a KCC computer lab. **No late MyLabsPlus work will be accepted**.

Applied:

Most sections will have an assigned applied problem which will be due the next class period. You will need regular notebook filler paper, 8” by 10 ½ . You must rewrite the problem on your paper and show your work to receive credit. **No late Applied work will be accepted**.

Tests:

There will be 6 tests worth 100 points each. Students are expected to take all tests on the dates scheduled, and there will be **no make-up tests**. At the end of the course, the lowest or one missing test grade will be dropped. Any other missed tests will receive a grade of zero.

Final Exam:

The Final Exam is cumulative and worth 200 points. The Final Exam **MUST** be taken during the college’s scheduled final exam time. **No MAKE-UP for the Final Exam**. . *Failure to take the Final Exam will result in the student receiving a failing grade for the course*.

Grading :

 MyLabsPlus 230

 Applied 70

 Tests 500

 Final Exam 200

 **Total Points 1000**

Grading Scale:

 A 900 – 1000 Points

 B 800 – 899 Points

 C 700 – 799 Points

 D 600 – 699 Points

 F < 600 Points

**Course Policies**

Attendance Policy:

Attendance is important to your success in this course. I will take attendance most days, but your attendance is not graded. **You** are responsible for any missed material covered during any missed class.

Calculator Use:

Scientific calculators are allowed in this course, ie. TI-30Xa. No Graphing Calculators are allowed.

E-Mail:

I will only accept e-mail from your KCC student e-mail account. You may instead contact me through Angel. Any e-mail/messages I send out will be to your KCC student e-mail or through Angel.

Cell Phones and Portable Computers:

Because it is nearly impossible to take adequate notes in math class on a portable computer (tablet, laptop, ect.), there is no reason for a fully-participating student to have one turned on or open. Their use and cell phone use during class is prohibited. This includes texting, internet surfing, calculator usage, gaming, homework, ect. Disregarding this policy will be treated as a disciplinary problem. See your student handbook for information on disciplinary procedures.

Classroom Conduct:

It is expected that you will conduct yourself in a manner that is respectful to your classmates and instructor, that you will be fully engaged in classroom discussion/activities, and that you do your best to help create a pleasant learning environment. College policy does not allow children in class. Please make other arrangements.

**College Policies**

**Withdrawals**
When it is necessary to withdraw from a course or from the college, a student may do so on or before the withdrawal date without receiving a punitive final grade. Students should use Change of Schedule forms which are available in Student Services. Students may submit Change of Schedule forms to Student Services or through the mail, but they must be postmarked no later than the withdrawal date. No withdrawals are allowed by phone. To determine the last date to withdraw with a grade of “W” in this course, log into KCConnect and click on “my registration statement” under Academic Profile.

Last day to withdraw with a “W” is April 4th, 2014.

**Code of Conduct**

Students need to adhere to the Code of Conduct located in the college catalog.

**College Resources**

**Academic Skills Center**

**Tutorial Assistance –** The center offers free tutorial services on a walk-in basis to support students enrolled at KCC in a wide range of college courses and individual skill development activities. The Learning Assistance Center, L335/339, is the location of most tutorial services. For a current tutoring schedule, go to: <http://www.kcc.edu/tutoring>.

**Learning Laboratory –** The Learning Lab, located in Room L329, uses instructional technology to provide individualized learning for students enrolled at KCC. In the lab, students can review and practice math, writing, reading, basic sciences, study skills, word processing, and other basic skills. For a current tutoring schedule, go to: <http://www.kcc.edu/tutoring>.

**Office of Disability Services –** KCC offers advisement and special instructional support for students who are physically and learning disabled, as well as those with academic deficiencies. Students will receive appropriate academic instructional support, including preparatory courses, tutorial assistance, study skills assistance, and self-instructional programs. For disability services, go to room L326, Tel: 815-802-8632.

**Learning Resource Center**

The LRC provides a variety of services free to students, including print, audio visual, computers, online articles and reference librarians, available to assist in locating information. The LRC is available to you Monday through Saturday. For additional information go to <http://www.kcc.edu/library>

**Course Calendar**

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| Week | Activities |
| Week 1 | Intro and Syllabus, 1.1 – 1.3, (Lab?) |
| Week 2 | 1.4 – 1.7, (Lab?) |
| Week 3 | Fractions – Appendix A.3 – A.6, Chapter 1 Review |
| Week 4 | **Test 1**, 2.1 – 2.2 |
| Week 5 | 2.3 – 2.4, Chapter 2 Review |
| Week 6 | **Test 2**, 3.1 – 3.2 |
| Week 7 | 3.3 – 3.5 |
| Week 8 | Chapter 3 Review, **Test 3** |
| Week 9 | Spring Break 3/10 – 3/14 |
| Week 10 | 4.1 – 4.3 |
| Week 11 | 4.4 – 4.5, Chapter 4 Review |
| Week 12 | **Test 4**, 5.1 – 5.2 |
| Week 13 | 5.3 – 5.6 |
| Week 14 | 5.7, Chapter 5 Review |
| Week 15 | Test 5, 6.1 – 6.2 |
| Week 16 | 6.3 – 6.4, Chapter 6 Review |
| Week 17 | Test 6, Final Review |
| Final Exam Week | Final Exam as scheduled by KCC |

**Copyright**

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**Syllabus disclaimer**

Course syllabus/calendar is subject to change.

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