Math 16 Course Information
Spring 2016
Instructor: Karla Karstens Office: Lord House Room 302
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Website: http://www.cem.uvm.edu/~karstens/math16/index.html
Office Hours: T/Th 1:15 – 2:30 p.m. and W 2:20 – 3:10 p.m. (Other times by appointment)
Recommended Text: Mathematical Reasoning by Long/DeTemple, 6th edition* on reserve at the Bailey Howe Library

Course Goals:
Students will learn mathematics. Students will also learn a variety of methods for math instruction.
Students will gain an appreciation and enjoyment of mathematics.
Students will increase their mathematical problem solving skills.
Students will see how perseverance, creativity, effort and determination are often necessary when learning mathematics, but the rewards are great when a solution is found or a concept is mastered.
Students will communicate concepts, ideas, and solutions in small and large group situations.
Students will have respect for different types of learners and be open to many different types of learning styles.

Course requirements:
Attend class. If you have to miss class because of a serious, unavoidable reason, find out what information was covered and come to the next informed of the material.
Be prepared for class.
Complete and turn in assignments on time.
Actively participate in class activities and discussions.
Put in the effort necessary to learn the math presented in the course.

Grading Policy:
300 points Test 1, Test 2, Test 3 (100 points each)
50 points Quizzes, Homework and Labs
150 points Final Exam

Attendance: Class participation is important. If attendance becomes a problem, I will talk to you and additional absences may result in an adjustment in your grade. In accordance with University Policy, I will allow for students to miss classes due to religious observations, Varsity Athletic events, or other activities stated in the UVM attendance policy. All requests for missed classes should be submitted in writing to the instructor within the first two weeks of class. If there is a family emergency or severe illness you will need to contact Student Services in order to be allowed to make up assignments.

Labs: The lab activities are used to enhance your learning of the material and to give you some exposure to the types of problems you may want to explore with your own students someday. Labs are an in-class activity and you may not receive credit for a lab that is done outside of class. Lab write-ups will be due the following class period after the lab. If a lab is not turned in during class or in my mailbox BEFORE the next class, it is late. Late labs will be graded but points may be deducted from the grade. Labs should be hard copy and not sent via e-mail.

Quizzes: Quizzes will be given most Fridays. There will be no make-up quizzes except for those circumstances listed above. I will drop your two lowest quiz grades when calculating your quiz average.

Tests: There will be three hour tests and a Final Exam for this course. Make-up tests are possible, but should not be assumed. Students with special needs are responsible for talking to me about necessary arrangements prior to the test days.

Course Outline
W January 20 Polygons and Plane Figures
F January 22 Polygons and Plane Figures
M January 25* Classifying Polygons Lab
W January 27 Symmetry
F January 29 Symmetry
M February 1* Symmetry
W February 3 Tessellations
F February 5 Tessellations/Esher
M  February 8  Area and Perimeter
W  February 10  Geoboard Lab
F  February 12  Area and Perimeter

M  February 15  Presidents’ Day Recess
W  February 17  Pythagorean Theorem
F  February 19  Area and Perimeter

M  February 22  Review for Test 1
W  February 24  Test 1
F  February 26  3D Figures – Platonic Solids

M  February 29  3D Figures
W  March 2  Surface Area
F  March 4  Surface Area

M  March 7  Spring Recess
W  March 9  Spring Recess
F  March 11  Spring Recess

M  March 14  Volume
W  March 16  Volume
F  March 18  Volume

M  March 21  Test 2 Review
W  March 23  Test 2
F  March 25  Probability

M  March 28  Empirical Probability Lab
W  March 30  Counting Methods
F  April 1  Counting Methods

M  April 4  Counting Methods and Probability
W  April 6  Organizing Statistical Data
F  April 8  Organizing Statistical Data Lab

M  April 11  Data Analysis Center and Spread
W  April 13  Data Analysis Center and Spread
F  April 15  Normal Distributions

M  April 18  Normal Distributions
W  April 20  Test 3 Review
F  April 22  Test 3

M  April 25  Graphing
W  April 27  Arithmetic Sequences and Linear Equations
F  April 29  Linear Equations

M  May 2  Geometric Sequences
W  May 4  Final Exam Review

Final Exam Schedule:  
Math 16A  Friday, May 6  8:00 – 10:15 a.m.  
Math 16B  Monday, May 9  8:00 – 10:15 a.m.