MATH 206 – Mathematics for Elementary School Teachers II  
Spring 2015  
Course Syllabus

Instructor: Kristen Harvey  
Office: 13  
Time: 1:30 p.m. – 2:20 p.m. Daily  
Office Hours: 9:30 a.m. – 10:30 a.m. M-F  
Room: 206  
Office Phone: 509.529.5511  
Website: web.wwcc.edu/kristenharvey  
Email: kristen.harvey@wwcc.edu

Course Description and Objectives
Math 206 is the second of a two-course sequence designed to give prospective elementary education majors the depth of understanding necessary to teach mathematics in the elementary classroom.

Upon completion of the course, students will be able to:

• Interpret the meaning of and perform computations with decimals, ratios, proportions and percents.
• Use algebraic reasoning, variables, notation, and graphing to solve problems.
• Analyze properties of geometric figures on the plane and in space.
• Use properties of geometric figures and algebra to calculate two- and three-dimensional measurements.
• Solve problems involving probability, odds, permutations, combinations and expected value.

Required Materials
• An activated student e-mail account from WWCC  
• Ruler  
• Rubik’s cube  
• Access Code for MyMathLab (available online or at the WWCC bookstore).
  o This includes access to the textbook online.
  o If you were in Math 205 last quarter, your access code is still valid for this course.

Homework
Assignments are to be submitted in MyMathLab. Usually, two homework assignments will be given for each section covered and both assignments will be due at the same time – the day after the section was covered in class. No late assignments will be accepted. The first assignment (labeled “Homework”) has help options available online, the second (labeled “Skills Check”) is shorter, has no help, and is used to assess learning on the concepts. You are expected to show work on all problems and keep your work in a labeled notebook. Your lowest homework score will be dropped at the end of the quarter. We will occasionally have worksheets or handouts for homework – those will be due the next class day. If you miss class when they are handed out, you may print them out by accessing the Course Documents tab in MyMathLab.

Rubik’s Cube
One of the main topics covered in this two-course sequence is Problem Solving. You will be learning and then teaching a variety of problem solving techniques to your students. The Rubik’s Cube is a classic way to explore and test the power of algorithmic thinking. The details matter and the procedures and sequence of procedures are important. A requirement of this course is that you are able to solve the Rubik’s cube by the date of the final exam. We will be spending approximately one day per week on learning the logical algorithms behind the solution to the Rubik’s cube and practicing our solving techniques. This is a valuable skill for prospective teachers – to experience the frustration and anxiety that your students will encounter in your classroom, but then to overcome that frustration by persistence and logical thinking. We will talk about how to work through the frustration and how to encourage the students when they feel that themselves. Sometimes our students don’t see
the end value for a particular mathematical skill you are teaching them – even though you as a teacher know why the skill is important. This is the philosophy behind teaching the Rubik’s cube.

**Attendance**

Daily (on-time) attendance is expected. We will spend class time in discussion and activities, thus attendance will be taken and some classroom activities will be graded. Participation during class is an integral part of this course. If you should miss a class, you are responsible for all announcements made concerning the course, for the material discussed in class, and for the homework assigned.

**Exams**

There will be five exams, each worth 100 points. Cell phones, headphones, computers, and sharing calculators are all prohibited during exams. If you must miss an exam for a WWCC-related function, contact me at least a week in advance in order to make proper arrangements. In the extremely rare case that you should miss an exam for other reasons, you must contact me before the exam to make arrangements to take the exam at another time.

**Final Exam**

The comprehensive final exam will be given Friday, June 12 in room 206 from 1:30 p.m. to 3:30 p.m. Taking the final exam on a day other than that must be arranged in writing through the Vice President of Instruction’s office.

<table>
<thead>
<tr>
<th>Grading Procedure</th>
<th>Grading Scale</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>93% -- 100%</td>
</tr>
<tr>
<td>Chapter Exams</td>
<td>90% -- 92.9%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>87% -- 89.9%</td>
</tr>
<tr>
<td>Total</td>
<td>83% -- 86.9%</td>
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**Academic Integrity**

Academic dishonesty (cheating) is not tolerated and will result in a 0 grade.

**Disability Policy**

A student with a documented disability may request accommodations by contacting Claudia Angus, Coordinator of Disability Support Services, by phone at 527-4262 or by email at claudia.angus@wwcc.edu.

**Resources**

- WWCC Tutoring and Learning Center (Open M-Th from 7:30 a.m. to 6:30 p.m., Fri. from 7:30 a.m. to 4:30 p.m.) in room 244.
- Contact me via email/phone or by stopping by my office.
- Notes/Handouts posted in MyMathLab.

**Effort**

Mathematics is not a spectator sport! You can only LEARN mathematics by DOING mathematics. Attendance is key to your success in this course. If you should miss a class, you are still responsible for the material missed, announcements made, and the homework assigned. Plan to spend a solid two hours outside class every day reading, studying, and doing homework. I encourage you to work in groups and obtain help from the Tutoring and Learning Center in Room 244. It is essential that you take personal responsibility to understand the course material and be able to solve the problems independently. YOU are the only one who can learn the material for yourself.