Instructor Information

Instructor: _______________ Phone: _______________
Office: _______________ Email: _______________
Office hours: _______________

Course Information

COURSE TITLE: FUNDAMENTALS OF MATHEMATICS II
COURSE NUMBER: MATH 1351
CREDIT HOURS: Three credit hours

COURSE PREREQUISITE: MATH 1350, MATH 1314 or MATH 1414 or the equivalent.

COURSE DESCRIPTION: This course is intended to build or reinforce a foundation in fundamental mathematics concepts and skills. It includes the concepts of geometry, measurement, probability, and statistics with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4 through 8) teacher certification. (3 Lec.)

REQUIRED TEXTBOOK AND SOFTWARE:

Fundamentals of Mathematics for Teachers
by Man M. Sharma

A student of this institution is not under any obligation to purchase a textbook from a university affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.
OTHER REQUIRED MATERIALS:
• Valid and monitored e-mail address, access to eCampus, access to computers.
• Binder or spiral notebook, paper, graph paper, ruler, pencils
• Instructor’s choice: ___________________________

DCCCD/State of Texas LEARNING OUTCOMES related to the book above:

<table>
<thead>
<tr>
<th>Learning Outcome (a listed in ACGM)</th>
<th>Chapter(s) from textbook – Fundamentals of Mathematics for Teachers by Man M. Sharma</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Apply fundamental terms of geometry such as points, lines, and planes to describe two and three dimensional figures.</td>
<td>Chapters 9.1, 9.2</td>
</tr>
<tr>
<td>2. Make and test conjectures about figures and geometric relationships.</td>
<td>Chapters 9.2, 9.3</td>
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<tr>
<td>3. Use a variety of methods to identify and justify congruency and similarity of geometric objects.</td>
<td>Chapters 11.1, 11.2</td>
</tr>
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<td>4. Perform geometric transformations.</td>
<td>Chapters 11.2, 11.3</td>
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<tr>
<td>5. Demonstrate fundamental probability techniques and apply those techniques to solve problems</td>
<td>Chapter 8.1</td>
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<td>6. Explain the use of data collection and statistics as tools to reach reasonable conclusions.</td>
<td>Chapters 7.1, 7.2</td>
</tr>
<tr>
<td>7. Recognize, examine, and utilize the basic principles of describing and presenting data.</td>
<td>Chapters 7.1, 7.2</td>
</tr>
<tr>
<td>8. Perform measurement processes and explain the concept of a unit of measurement.</td>
<td>Chapter 10.1</td>
</tr>
<tr>
<td>9. Develop and use formulas for the perimeter, area, and volume for a variety of figures.</td>
<td>Chapters 10.2, 10.3</td>
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Course Activities and Evaluation Procedures:

I. **Unit Exams**: There will be _____ Unit Exams worth ______ points each. Exams may have to be taken outside of classroom time in the Assessment Center located in the basement.
   *Instructor’s procedure: ____________________________*

II. **Online homework**: Short quizzes and/or homework will be assigned regularly using __________ software. You may use the temporary access code provided by the software but you must purchase the permanent code by the third week of class.
   *Instructor’s procedure: ____________________________*
III. **Final Exam:** A comprehensive departmental exam will be worth _____ points. The final exam will be administered during Finals Week in the classroom. You will need a Scantron Form 882-E, pencil and scratch paper

*Instructor’s procedure: _______________________

IV. **Instructor’s Choice:** _______________________

**Core Signature Assignment—CT3 “Critically Thinking Things Through”**

El Centro College’s Quality Enhancement Plan is “CT3: Critically Thinking Things Through”. The Mathematics Department has designed a project to introduce students in your math class to critical thinking strategies, as well as help students document their thinking when tackling difficult, complex scenarios. You will work an assignment to fulfill the QEP-CT3 requirements of this course. The “Signature” QEP-CT3 assignment will be available on your eCampus site and will count for 20 points on one of your exams (your instructor will provide you with more details). You must complete and upload a pdf for the Signature assignment no later the date and time indicated by your instructor.

**Grading Policy:**

<table>
<thead>
<tr>
<th>Grade Calculation (in points)</th>
<th>Final grades will be recorded using the following scale:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test 1</td>
<td><strong>Course average</strong> = <em>Sum of all points, divided by the</em></td>
</tr>
<tr>
<td>Test 2</td>
<td>*<em>Total Number of Points. Points will be rounded to the</em></td>
</tr>
<tr>
<td>Test 3</td>
<td><strong>nearest whole number.</strong></td>
</tr>
<tr>
<td>Final Exam</td>
<td>A: 90-100 average</td>
</tr>
<tr>
<td>Haskes Online Grade</td>
<td>B: 80-89 average</td>
</tr>
<tr>
<td>Instructor’s Choice</td>
<td>C: 70-79 average</td>
</tr>
<tr>
<td>Total Points:</td>
<td>D: 60-69 average</td>
</tr>
<tr>
<td></td>
<td>F: below 60 averages</td>
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</tbody>
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**Attendance Policy:** Attendance **on time** and for the whole class period is required.

*Instructor’s Choice*

**Cell Phone Use in the classroom:** Cell phone use in the classroom is not permitted. Please place your phone away and out of sight/

*Instructor’s Choice*
Withdrawing from this class:

BEFORE YOU DROP: For students who enrolled in college level courses for the first time in the fall of 2007, Texas Education Code 51.907 limits the number of courses a student may drop.

• Drop date for FALL- 2019 is 11/27/2019 (W).

You may drop no more than 6 courses during your entire undergraduate career unless the drop qualifies as an exception. Your campus counseling/advising center will give you more information on the allowable exceptions. Remember that once you have accumulated 6 non-exempt drops, you cannot drop any other courses with a “W”. Therefore, please exercise caution when dropping courses in any Texas public institution of higher learning, including all seven of the Dallas County Community Colleges. For more information, you may access: https://www.dcccd.edu/apply-reg/reg/pages/dropwithdraw.aspx

Institutional Links

Click for Learning Center Tutoring and Resources
URL: https://www.elcentrocollege.edu/services/academic-support/tutoring/pages/default.aspx
West Campus Learning Center: 972-391-1408

Click for DownTown Testing Center
URL: https://www.elcentrocollege.edu/services/academic-support/testing-centers/pages/default.aspx
West Campus Testing Center: 972-391-1424

Click for Course Related Institutional Policies
URL: http://alt.elcentrocollege.edu/admissions/schedule/syllabus/Course-Related-Policies.pdf

Click for El Centro College Institutional Policies
URL: http://alt.elcentrocollege.edu/admissions/schedule/syllabus/Institutional-Policies.pdf

Click for the Title IX and Sexual Misconduct Policy
URL: http://alt.elcentrocollege.edu/students/title-ix-and-sexual-misconduct

Click for the El Centro College Student Handbook
URL: https://www.elcentrocollege.edu/sliffeec/pages/student-handbook.aspx

Click for a list of services available to all El Centro College students
URL: https://www.elcentrocollege.edu/sliffeec/servicesdirectory/pages/default.aspx

Disclaimer:
The provisions contained in this syllabus do not constitute a contract between the student and El Centro College. These provisions may be changed at the discretion of the Coordinator/Instructor. When necessary, appropriate notice of such changes will be given to the student.