SMTE 1351.001 Fundamentals of Mathematics II
Department of Mathematics and Statistics
Fall 2015

A. COURSE INFORMATION

Course number/section: SMTE 1351.001
Class meeting time: 9:30-10:45 TR
Class location: CS 107
Course Website: 

B. INSTRUCTOR INFORMATION

Instructor: Marcia Venzon
Office location: CI 367
Office hours: MW 10-11, Tuesday 11-2
Telephone: 361 825-2844
e-mail: Marcia.venzon@tamucc.edu
Appointments: For appointment please email.

C. COURSE DESCRIPTION

The conceptual framework for understanding and applying properties, models and operations related to various data systems in problem solving settings. This research-based course provides the conceptual framework for increased understanding and application of rational numbers, probability, and statistics. Communicating concepts, processes or solutions effectively, in oral and written forms, will be emphasized. Using physical models to teach the content topics and understanding how learning occurs through their use will be a substantial portion of the class instructional plan. The course will cover chapters 7, 11, and 13 in the textbook.

D. PREREQUISITES AND COREQUISITES

MATH 1314: College Algebra or equivalent
SMTE 1350: Fundamentals of Math I

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Required:
• Help line for MyLabsPlus is 1-888-883-1299. Students will log into mylabsplus using your net ID (mine is mvenzon1) and if new, asking for password.
• Student Packet of materials at Barnes and Noble Bookstore on campus. Calculator.
F. **STUDENT LEARNING OUTCOMES AND ASSESSMENT**

Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the course’s student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

SMTE 1351 – Fundamentals of Mathematics II

Student Learning Objectives.

If the student meets the expectation of the instructor for completing assigned tasks, reflecting on the daily activities, studying the key concepts discussed during class, and getting additional help when needed, then the student will be able to:

1) Use, model, justify and explain relationships, operations and algorithms involving rational numbers, ratios, proportions and percent; as well as compare and contrast proportional and non-proportional relationships.

2) Create, use and explain a variety of appropriate data displays (tables, charts, graphs) and basic descriptive statistics that summarize data sets; compare and contrast the various representations.

4) Create, use and evaluate simulations and models that explore simple and compound experimental probability events. Use, justify and explain appropriate counting techniques, including permutations and combinations, to determine theoretical probabilities. Discuss the similarities and differences between experimental and theoretical probabilities.

5) Identify correct and incorrect mathematical reasoning, and analyze error patterns present in EC-6 student work, and suggest remediation for these errors.

6) Write, and solve mathematical problems that involve proportional, probabilistic, and statistical reasoning, as well as basic ideas of mathematical modeling, in a variety of mathematical or non-mathematical settings.
7) Communicate mathematical ideas appropriately through multiple representations, including oral and written words, concrete manipulatives and pictures, graphs, tables, and symbols.

G. INSTRUCTIONAL METHODS AND ACTIVITIES
The course will be a combination of lectures, individual, and group work. Students are expected to participate in group and whole class discussions by contributing with knowledge and thoughtful evaluation of the contribution of others. Using physical models to teach the content topics, and understanding how learning occurs through their use, will be a substantial portion of the class instructional plan.

H. MAJOR COURSE REQUIREMENTS AND GRADING

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
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<tbody>
<tr>
<td>Exams</td>
<td>25%</td>
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<tr>
<td>Quizzes</td>
<td>25%</td>
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<tr>
<td>Homework</td>
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<tr>
<td>Family Math Night/Attendance</td>
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I. COURSE CONTENT/SCHEDULE

<table>
<thead>
<tr>
<th>DATE (WEEK)</th>
<th>TOPIC</th>
<th>CHAPTER(S)</th>
<th>ASSIGNMENTS</th>
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<tbody>
<tr>
<td>1</td>
<td>Introduction to decimals</td>
<td>Chapter 7.1</td>
<td>In class and MyLabsPlus</td>
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<tr>
<td>2</td>
<td>Decimals numbers</td>
<td>7.2,7.3</td>
<td></td>
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<tr>
<td>3-4</td>
<td>Percent …</td>
<td>7.4</td>
<td></td>
</tr>
<tr>
<td>5-6</td>
<td>Ratio and proportion</td>
<td>7.3</td>
<td></td>
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<tr>
<td>7</td>
<td>Exam 1…</td>
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<tr>
<td>8-10</td>
<td>Statistics: the interpretation of data</td>
<td>13.1, 13.2,13.3</td>
<td></td>
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<tr>
<td>11-13</td>
<td>Probability</td>
<td>14.1,14.2,14.3</td>
<td></td>
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<tr>
<td>14</td>
<td>Review for final</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>Final Exam</td>
<td>As per exam schedule</td>
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Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.

J. COURSE POLICIES
   Attendance/Tardiness
   Attendance is very important in this class. I count absences for 12.5% of your grades. I assume pre and in-service teachers to be professional learners, with maturity to understand the importance of being present in the classroom. If you are absent, please communicate with the instructor within 24 hours to be able to make up work. Not all work can be made up. Email is encouraged or you may call my office at 825-2844. You can get free medical attention at the University Health Center 825-2601.

   Late Work and Make-up Exams
   Work can only be made up if you email me within 24 hours your reason for missing. Some classwork cannot be made up. Instructor may adjust points awarded at their discretion.

   Extra Credit
   There is not extra credit in this course. I do drop the two lowest homework grades

   Cell Phone Use
   Please turn off cell phones in class. You may not use its calculator on tests.

   Laptop Use
   Not necessary to this course.

   Food in Class
   Please do not bring food to class or drinks without tops.

   Missed Exam
   If you miss an exam I need to have an email with a legitimate reason for missing and a plan for making it up

   Participation
   Participation is very important in this class. We do class work every day.

   Others
   Written work must be typewritten or neatly printed.
   Before you drop this course, be sure to discuss it with your professor.

K. COLLEGE AND UNIVERSITY POLICIES
   Academic Integrity (University) University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating,
such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one’s own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.

- **Classroom/Professional Behavior**
  Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

- **Statement of Civility**
  Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

- **Deadline for Dropping a Course with a Grade of W (University)**
  The grade of W will be assigned to any student officially dropping a course. Please consult with the instructor before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must be submitted. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic Calendar (http://www.tamucc.edu/academics/calendar/) for the last day to drop a course.

- **Grade Appeals (College of Science and Engineering)**
  As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These
documents are accessible through the University Rules website at http://www.tamucc.edu/provost/university_rules/index.html, and the College of Science and Engineering Grade Appeals webpage at http://sci.tamucc.edu/students/GradeAppeal.html. For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disability Services**
  The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please call (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

  If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

  [http://disabilityservices.tamucc.edu/](http://disabilityservices.tamucc.edu/)

**L. OTHER INFORMATION**

- **Academic Advising**
  The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The College’s Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

**GENERAL DISCLAIMER**

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.