Math 1332.001– Contemporary Mathematics
Mathematics Department
Spring - 2019
Syllabus – Subject to Change

A. COURSE INFORMATION
   Course number/section: MATH 1332.001/#83516
   Class Meeting time: MWF 9:00 – 9:50 AM
   Class: CI 127
   Course Website: bb9.tamucc.edu

B. INSTRUCTOR INFORMATION
   Instructor: Marie McClendon
   Office location: CI 367
   Office hours: MW 10 – 11; TR 12:30 – 2 IH 157
   Telephone: (361) 825-2874
   e-mail: lola.mccclendon@tamucc.edu
   Appointments: TBD

C. COURSE DESCRIPTION
   Catalog Course Description
   Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included. This course emphasizes using critical thinking to make decisions based on information.

D. PREREQUISITES AND COREQUISITES
   Prerequisites
   A “C” or higher in Math 0300 or College Readiness in Mathematics

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES
   Supplies
   A scientific or graphing calculator is required.
   Access to a computer to complete online assignments and homework.

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.

Upon successful completion of this course, students will be able to:
1. perform set operations via sets, subsets and/or Venn diagrams;
2. determine results of truth tables and/or logic statements;
3. find the probability of an event;
4. interpret descriptive statistics; and
5. calculate basic Algebra functions.

G. COURSE CONTENT/SCHEDULE (Tentative)

Chapter 1: Everyone Has Problems
1.1 Be Reasonable (inductive and Deductive Reasoning)
1.2 More or Less (Estimation and Interpreting Graphs)
1.3 You Got a Problem? (Problem-Solving Strategies)

Chapter 2: Managing Your Money
2.1 Giving 110 Percent (Review of Percents)
2.2 Building it is the Easy Part (Budgeting)
2.3 A topic of Interest (Simple Interest)
2.4 Like a Snowball Rolling Downhill (Compound Interest)
2.5 Buying Stuff Without Money (Installment Buying)
2.6 Investing in Yourself (Education and Home Loans)

Chapter 3: Place Your Bets
3.1 So You’re Saying There’s a Chance (Basic Probability)
3.2 Make it Count (Sample Spaces and Counting Techniques)
3.3 Combining Forces (combinatorics)
3.4 Too Good to Be True? (Probability Using Counting Techniques)
3.5 Odds and Ends (Odds and Expected Value)

Chapter 4: Statistically Speaking
4.1 Crunching the Numbers (Gathering and Organizing Data)
4.2 Picture This (Representing Data Graphically)
4.3 An Average Joe (Measures of Averages)
4.4 Your Results May Vary (Measures of Variation)
4.5 Where Do You Rank? (Measures of Position in a Data Set)
4.6 Just a Normal Day (Normal Distributions and Z Scores)
4.7 The Way the Cookie Crumbles (Applications of the Normal Distribution)
Chapter 5: Building Models
5.1 Keeping Things in Proportion (Ratios and Proportions)
5.2 Making Some Extra Cash (The Basics of Graphing Functions)

Chapter 6: The Joy of Sets
6.1 Setting Up (The Basics of Working with Sets)
6.2 Busy Intersections, More Perfect Unions (Operations on Sets)
6.3 Worlds Collide (Studying Sets with Two-Circle Venn Diagrams)
6.4 A Dollar for Your Thoughts (Using Sets to Solve Problems)

Chapter 7: Uncommon Sense
7.1 Opening Statements (Statements and Quantifiers)
7.2 Finding the Truth (Truth Tables)
7.3 To Be and Not to Be (Types of Statements In Logic)

H. INSTRUCTIONAL METHODS

The course is lecture based but with active learning emphasized. You are expected to participate in class by working in small groups; asking questions; completing knowledge surveys; completing in class quizzes, etc. You are encouraged to ask questions in class and use your instructor’s office hours to have course material explained.

H. GRADING

i) Class Participation: You are expected to attend and participate in each class. You are encouraged to watch any assigned media before class and work with the class members to complete assignments outside of class. Class participation counts as 10% of your grade. You will not be able to makeup any missed class assignments.

ii) Online Homework: Homework will be assigned and completed using the online homework program, Connectmath. The program provides helpful resources so that you will be able to complete all your work in a timely manner. Homework will be assigned for each topic with due dates clearly stated. No late homework will be accepted. Homework counts as 15% of your grade.

iii) Quizzes: Quizzes will be assigned and completed using the online program, Connectmath. No online resource, guided solutions, show an example, etc will be provided during a quiz. You may use your notes to help you complete the quizzes. Perquisites are set for each quiz which include completed all the required homework at a 75% mastery level. No late quizzes can be taken nor will they be graded. Quizzes could as 20% of your grade.

iii) Tests: There are four tests. Tests will usually be over two chapters. Calculators may be used on exams. There will be no makeup for a missed exam. If you miss an exam the grade
for the exam is 0. All exam dates are listed in the schedule and will be announced in class. Make sure to show all your work on the exam so partial credit might be given. Exams are work 35% of your grade.

iv) **Final Exam** – there will be a comprehensive final exam for this class. The date of the exam is shown in the class schedule. You are required to take the in person final exam on the date listed. The final exam counts as 20% of your grade.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
<th>GOAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class Participation and Projects</td>
<td>10%</td>
<td>Complete in-class assignments individually or in small groups. A missed assignment counts as a 0.</td>
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<tr>
<td>Homework</td>
<td>15%</td>
<td>Homework is assigned each class. No late homework is accepted. A missed assignment counts as a 0.</td>
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<tr>
<td>Quizzes</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>Tests</td>
<td>35%</td>
<td>A calculator may be used on each in class test. A missed test results in a grade of 0.</td>
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<tr>
<td>Final</td>
<td>20%</td>
<td>The final will be given on the date listed in the Final Exam schedule published by the University.</td>
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**Grading Scale:** If your course average is 90% or above you will earn an A; if your course average is between 80% and 89%, you will earn a B; if your course average is between 70% and 79% you will earn a C; if your course average is between 60% and 69% you will earn a D; below 60% you will earn an F.

1. **COURSE CONTENT/SCHEDULE**

<table>
<thead>
<tr>
<th>DATE (BY DAY OR WEEK)</th>
<th>TOPIC</th>
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<tbody>
<tr>
<td>Week 1</td>
<td>Chapter 1: Everyone Has a Problem</td>
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<tr>
<td>Week 2</td>
<td>Chapter 7: Uncommon Sense</td>
</tr>
<tr>
<td>Weeks 3</td>
<td>Chapter 7: Uncommon Sense</td>
</tr>
<tr>
<td>Week 4</td>
<td>Chapter 7: Uncommon Sense Test 1: Chapters 1 &amp; 7</td>
</tr>
<tr>
<td>Week 5</td>
<td>Chapter 5: Building Models</td>
</tr>
<tr>
<td>Week 6</td>
<td>Chapter 6: The Joy of Sets</td>
</tr>
</tbody>
</table>
Week 7 | Chapter 6: The Joy of Sets
---|---
Week 8 | Chapter 5: The Joy of Sets  
| Test 2
Week 9 | Chapter 3: Place Your Bets
Week 10 | Chapter 3: Place Your Bets
Week 11 | Chapter 4: Statistically Speaking
Week 12 | Chapter 4: Statistically Speaking
Week 13 | Chapter 2: Managing Your Money  
| Test 3
Week 14 | Chapter 2: Managing Your Money
Week 15 | Chapter 2: Managing Your Money  
| Test 4
Per University Final Exam Schedule | Friday, May 3

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.

Spring 2019 Important Deadlines/Holidays:

Important dates:
- January 14: First Day of Classes
- January 21: Martin Luther King Jr Holiday No Classes
- January 22: Last day to late register or add a class
- March 11 - 15: Spring Break
- April 5: Last day to drop a class
- April 30: Last day to withdraw from the University
- May 1: Last Day Classes
- May 2: Reading Day
- May 3: Final

J. COURSE POLICIES

Attendance/Tardiness
1. I expect each student to attend all classes. Attendance is mandatory. Please save absences for emergencies and illness.
2. If you are more than 5 minutes tardy or if you leave more than 5 minutes before the end of
class you are considered absent.
3. All absences are considered unexcused unless a written excuse or documentation is made available to me in a timely manner and accepted.
4. If you must leave early inform me prior to the beginning of class or if you must be absent please email me through my university email stated at the top of this syllabus.

Extra Credit
There is no extra credit in this course.

Cell Phone Use
Cell phones are not to be used as a calculator. Cell phones are prohibited in class. They should be stored in backpacks or purses during class and not in pockets.

Laptop Use
You may use a laptop to take notes during class, but do not access websites other than Connectmath during class.

Food in Class
Do not bring food or drinks into this class. Water is permitted.

Participation
1. Participation is required for class activities. Some activities will be individually completed, some in small groups.
2. Please ask your instructor (not a classmate) to clarify material during class if you do not understand.

Expectations
- Students are expected to attend each class meeting.
- Students are expected to have Connectmath purchased by the end of the 2nd week.
- Students are expected to report difficulties purchasing or accessing Connectmath promptly.
- Students are expected to work on homework and media assignments outside of class.

Responsibility
1. You are responsible for obtaining the required supplies and bringing them to class.
2. You are responsible for organizing your time so that you can study at least 2 hours for every class.
3. You are responsible for any homework assigned, completing assessments, watching and taking notes from videos and power points.
4. You are responsible for your own learning; therefore, you should come prepared with questions you need answered. Keep up with what you need to do and set appropriate goals for yourself. Our goal is for you to be an independent learner by the end of the semester and have completed the course requirements.
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), Friday, April 5th
I hope that you never find it necessary to drop this or any other class. However, events can sometimes occur that make dropping a course necessary or wise. Please consult with your academic advisor, the Financial Aid Office, and me, before you decide to drop this course. Should dropping the course be the best course of action, you must initiate the process to drop the course by going to the Student Services Center and filling out a course drop form. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. 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/

- **Statement of Academic Continuity**
  In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University–Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

- **Other Important Information**
  **Final Exams (University)**
  As stated in University Procedure 13.99.99.C4.01, final examinations must be scheduled during the regularly scheduled examination time listed in the official class schedule. If papers or take-home examinations are assigned in lieu of a final
examination, the due date must be at the regularly scheduled examination time listed in the official class schedule. If final presentations or final critiques assigned in lieu of final examinations require multiple days to complete, then the final day for the critiques/presentations must occur on the regularly scheduled exam day.

2.2 Students are not required to take more than two final examinations in any one day. Any student with three or more final examinations scheduled on the same day may request to take one of the examinations on another day during the final examination period. The process is described below.

A) The student should first try to resolve the matter with the appropriate instructor(s).
B) If the matter remains unresolved, the student should submit a request for an alternative final exam time in writing to the Office of Student Affairs. This request must be submitted by the drop date (the last day to drop a course for the semester with an automatic grade of W as stated in the semester class schedule).

C) The Office of Student Affairs will select which of the exams should be taken at an alternative time and formally contact the faculty member at least 15 working days before the final examination period. Preference for selection of which course would have an alternative final exam time must be based on the course with the smaller class size and, then, courses with final exam times in between other exams.

D) The faculty member will then arrange an alternative time for the student to take the final exam for that course that does not conflict with the student’s final exam schedule or require the student to take more than two final exams in one day. If students have difficulties in rescheduling the examination, they should consult with the Office of Student Affairs. Final exams given outside the regularly scheduled time may vary in content and format at the discretion of the faculty member.

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.