Math 1332.001
Contemporary Mathematics
Mathematics Department
Spring - 2020
Syllabus – Subject to Change

A. COURSE INFORMATION
   Course number/section: MATH 1332.001
   Class Meeting time: TTR 2-3:15 pm
   Class: IH156
   Course Website: bb9.tamucc.edu

B. INSTRUCTOR INFORMATION
   Instructor: Dr Bobbie Jo Hill
   Office location: CI 314
   Office hours: 4-5:15pm TTR by appointment
   Telephone: e-mail: bhill7@islander.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, or a TSI score of 341 or above

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 makeups 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.

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<thead>
<tr>
<th>ACTIVITY</th>
<th>% of FINAL GRADE</th>
<th>GOAL</th>
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<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>
</tr>
<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>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>Tests</td>
<td>35%</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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<tr>
<td>Final</td>
<td>20%</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.

I. 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>Jan 21-23</td>
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<tr>
<td>Week 2</td>
<td>Chapter 2: Managing Your Money</td>
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<tr>
<td>Jan 28-30</td>
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<tr>
<td>Week 3</td>
<td>Chapter 2: Managing Your Money</td>
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<tr>
<td>Feb 4-6</td>
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<tr>
<td>Weeks 4</td>
<td>Chapter 2: Managing Your Money</td>
</tr>
<tr>
<td>Feb 11-13</td>
<td>Test 4</td>
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### 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.

COLLEGE AND UNIVERSITY POLICIES

1. 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.

2. **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.

3. **Student 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.

4. **Deadline for Dropping a Course with a Grade of W (University)**

Deadline for Dropping a Course with a Grade of W (University). 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 for the last day to drop a course. [http://www.tamucc.edu/academics/calendar/](http://www.tamucc.edu/academics/calendar/).

5. **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://studentaffairs.tamucc.edu/student_grade_appeal_procedure.pdf, 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.

6. 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 thing, 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. https://disabilityservices.tamucc.edu/

7. 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.

M. 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.

N. GENERAL DISCLAIMER

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

O. FAMILY EDUCATIONAL RIGHTS AND PRIVACY ACT (FERPA)

Under FERPA, a student has the right to:

1. Inspect and review their education records

Students can inspect and review their education records within 45 days of the day the University receives a request for access. A student should submit to the registrar, dean, head of the academic department, or other appropriate official, a written request that identifies the record(s) they wish to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed.

2. Request to amend their education records

Students can request to amend any of their education records that they believe are inaccurate, misleading, or otherwise in violation of the student’s privacy rights under FERPA. A student who wishes to ask the University to amend a record should write the University official responsible for the record, clearly identify the part of the record the student wants changed, and specify why it should be changed. If the University decides not to amend the record as requested, the University will notify the student in writing of the decision and the student’s right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing.
3. Some control over the disclosure of their education records

Students have the right to provide written consent before the University discloses personally identifiable information from their education records, except to the extent that FERPA authorizes disclosure without consent. The University discloses education records without a student’s prior written consent under the FERPA exception for disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academics or research, or support staff position (including law enforcement unit personnel and health staff).

A person or company with whom the University has contracted as its agent to provide a service instead of using University employees or officials (such as an attorney, auditor, or collection agent).

A person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks.

A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibilities for the University.

Upon request, the University also discloses education records without consent to officials of another school in which a student seeks or intends to enroll.

4. File a complaint if they feel any of these rights have been violated

Students can file a complaint with the U.S. Department of Education concerning alleged failures by the University to comply with the requirements of FERPA. The name and address of the Office that administers FERPA is:

Family Policy Compliance Office
U.S. Department of Education
400 Maryland Avenue, SW
Washington, DC 20202-5901

P. STARFISH EARLY ALERT

The Center for Academic Student Achievement is hosting Starfish, an Early Alert software program for identifying undergraduate students who need assistance from academic support services at Texas A&M University Corpus Christi. The Early Alert program offers convenient early warning identification capabilities and connects students to a collaborative “Success Network” of faculty, advisors, and specialized support staff to address students’ needs and inquiries in real time.

The Early Alert program allows faculty and staff to identify the academic needs of TAMUCC’s undergraduate students at any point during the academic term. Starfish provides early alerts, or “flags”, when raised by faculty or staff; generate emails notifying
the student, and members of the student’s “Success Network” of course progress and academic concerns needing to be addressed.

Students can actively engage with members of their “Success Network” at any time. Early Alerts raised for students, however, will elicit an Early Alert response originating from CASA, supplemented by Academic Advising, and may include additional support from campus programs including Student Engagement and Success, Enrollment Management, PASS, and other academic support programs from TAMUCC.

Starting Spring 2014, all Pre-1000, 1000, and 2000 level courses at TAMUCC will be supported by the Early Alert program through the implementation of progress reports. Progress report will help to identify students’ academic needs, including:

- Poor class attendance
- Low class participation
- Low test or quiz scores
- Missing or incomplete work
- Midterm grade below a C
- In danger of Failing

Starfish Connect facilitates meaningful contact between students and their instructors, advisors, and mentors. The system encourages students to engage more deeply in their academic lives by connecting students to the people and resources in place to help students succeed. Students can access Starfish by logging into Blackboard (bb9.tamucc.edu), and selecting the Starfish Button within Blackboard’s Tools.

**SPRING 2020 Important Deadlines/Holidays:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 21</td>
<td>First Day of Classes</td>
</tr>
<tr>
<td>January 28</td>
<td>Last day to late register or add a class</td>
</tr>
<tr>
<td>March 4 – 25</td>
<td>Midterm Grading</td>
</tr>
<tr>
<td>March 9 – 13</td>
<td>Spring Break</td>
</tr>
<tr>
<td>April 10</td>
<td>Last day to drop a class</td>
</tr>
<tr>
<td>May 7</td>
<td>Reading Day No Class</td>
</tr>
<tr>
<td>May 5</td>
<td>Last Day to withdraw from the University</td>
</tr>
<tr>
<td>May 6</td>
<td>Last Day of Classes</td>
</tr>
<tr>
<td>May 7</td>
<td>Reading Day</td>
</tr>
<tr>
<td>May 8-14</td>
<td>Finals</td>
</tr>
</tbody>
</table>

*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.*