Mathematics Assessment, Math 5322.001
Department of Mathematics and Statistics
Spring 2020

A. COURSE INFORMATION
   Course number/section: MATH 5322.001
   Class meeting time: W 7:00 – 9:30 PM
   Class location: CS – 107
   Course Website: bb9.tamucc.edu

B. INSTRUCTOR INFORMATION
   Instructor: George Tintera
   Office location: CI 319
   Office hours: Monday and Wednesday, 1 to 2 pm and 3:30 to 5:30 pm.
   Telephone: 361-825-6028
   E-mail: george.tintera@tamucc.edu
   Appointments: Appointments outside of office hours are available by request

C. COURSE DESCRIPTION
   A historical overview of assessment of mathematics, statistical description of norm- and
criterion-reference tests, scaling of standardized exams, varieties of assessment and rubrics,
the mathematical analysis of error patterns, and equity.

D. PREREQUISITES AND COREQUISITES
   Graduate Standing. There are no co-requisites.

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES
   Supplies: Library and Internet Access

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 students 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 should be able to:
1. Have an understanding of reformed mathematics instruction.
2. Understand the role of assessment in reform.
3. Know the principles of assessing mathematics learning.
4. Design assessment frameworks, develop assessment tasks, score the tasks and report the results.
5. Apply assessment to support Mathematics Learning.
6. Apply assessment to support equity and opportunity in mathematics learning.

G. INSTRUCTIONAL METHODS AND ACTIVITIES

The class uses the lecture format with student participation and discussion. The primary tool for investigations will be homework and office hours.

H. MAJOR COURSE REQUIREMENTS AND GRADING

Grades will be calculated by homework, test, and exam, according to the following percentages.

<table>
<thead>
<tr>
<th>ACTIVITY</th>
<th>% Contribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Class/Homework</td>
<td>30</td>
</tr>
<tr>
<td>Projects</td>
<td>30</td>
</tr>
<tr>
<td>Quizzes</td>
<td>10</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30</td>
</tr>
</tbody>
</table>

- **Class/Homework**: Participate in inquiry tasks, whole class discussion, and group work activities during regularly scheduled class time. Homework may require high speed internet access and word processing software.

- **Projects**: (1) select a challenging concept in assessment and prepare a report on research-based approaches for making the assessment. (2) Prepare appropriate literature reviews based on contemporary literature for current teaching assignment

- **Quizzes**: demonstrate your mastery of student learning outcomes during 20-45 minute individual assessments.

- **Final Exam**: Wednesday, May 13 from 7 to 9:45 PM. It will be comprehensive.

Your final grade will be assigned according to the following table:

<table>
<thead>
<tr>
<th>Point Total</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥450 points</td>
<td>A</td>
</tr>
<tr>
<td>≥400 points</td>
<td>B</td>
</tr>
</tbody>
</table>
I. COURSE CONTENT/SCHEDULE

Important dates:
- January 14: First Day of Classes
- March 11-15: Spring Break
- April 5: Last Day to Drop a Class
- May 1: Last Day of Classes
- May 2: Reading Day

Course Schedule:

<table>
<thead>
<tr>
<th>Week of</th>
<th>Topic</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weeks 1 to 3</td>
<td>Mathematics Instruction and its reform</td>
<td></td>
</tr>
<tr>
<td>Weeks 4 to 6</td>
<td>Assessing Important Mathematical Content</td>
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</tr>
<tr>
<td>Weeks 7 to 9</td>
<td>Assessing to Support Mathematics learning</td>
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</tr>
<tr>
<td>Weeks 10 to 12</td>
<td>Assessing to Support Equity and Opportunity in Mathematics Learning</td>
<td></td>
</tr>
<tr>
<td>Weeks 13 and 14</td>
<td>Evaluating Mathematics Assessment</td>
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</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 described in Section F.

J. COURSE POLICIES

- Attendance/Tardiness
  I will check the attendance in every class. Attendance is mandatory by Texas A&M University. Please save absences for emergencies.

- Late Homework Assignments
  Late assignments will not be accepted, unless exceptional circumstances prevent you from
completing them. Extension of deadlines will be at the instructor’s discretion. Late assignments may result in partial or total loss of credit. There are **NO** make-ups for exams or in-class activities.

- **No Make-up for Midterm/Final Exams**

  **Missed Exam:**
  No make-ups will be given without written evidence of an Official University excused absence. For an absence to be considered excused, the student must notify his or her instructor in writing (acknowledged e-mail message is acceptable) prior to the date of absence if such notification is feasible. In cases where advance notification is not feasible (e.g. accident or emergency) the student must provide notification by the end of the second working day after the absence. In the case of illness or injury, students are required to obtain a confirmation note from a health care professional affirming date and time of a medical office visit regarding the illness or injury.

- **Extra Credit**
  There will be no extra credit for this course. Do your best to complete the work assigned.

- **Cell Phone Use**
  Please silence phone before coming to class. If you need to make a call, please go outside the classroom. ANY USE OF A CELL PHONE OR WIRELESS DEVICE DURING A TEST CARRIES THE PRESUMPTION OF CHEATING. A GRADE OF 0 WILL BE AWARDED FOR THAT ASSIGNMENT FOR USING, TOUCHING OR GLANCING AT A CELL PHONE OR WIRELESS DEVICE.

- **Laptop Use**
  Laptops, or any form of a new technology device is NOT allowed in the classroom during lecture and exam.

- **Food in Class**
  Food is not allowed in the classroom.

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)**
  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/](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](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](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/)

- **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.

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.

M. **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.