Class Syllabus / Policy

MTH 129 Section 001: Concepts and Applications
Fall 2018

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Phone: 936-468-6262
Office: Mathematics Room 334
Office Hours: Anytime my door is open, by appointment or
Tuesday/ Thursday: 11:00-12:00; 2:00-3:00pm
Wednesday: 10-11am

Class meeting time and place: MTH 129 Section 001 meets in Math 209 at 2:30-3:15 MW

Course Prerequisites: MTH 127 and MTH 128

Course Description:
Problem solving and critical thinking skills applied to the study of a broad range of topics, including sequences and series, recursion, and mathematical modeling with families of functions, including connections to the classroom.

Text and Materials:
- A four-function calculator (ONLY- NO graphing or scientific calculators) will be allowed on exams but is not required.

Course Requirements:
- Three in-class exams scheduled on Wednesday, September 19; Wednesday, October 10; and Wednesday, November 14.
- Final Exam taken Friday, December 14, 10:30am-12:30pm. The final exam is comprehensive
- Homework will be collected and graded. Assigned problems from the textbook can be found on the Tentative Calendar. Some assignments may be due during Dead Week. Read the homework grading policy available on D2L carefully
- Exam corrections, in which you work any exam questions for which you lost credit. Errors should also be classified according to the instructor’s criteria. These assignments will be returned to you for editing until they are completely correct. Credit for this assignment will not be awarded until all errors are completely corrected. These assignments are classified as “homework” and will not alter exam grades
- Reading the textbook is essential to the learning process and is expected
- Attendance and participation in class meetings are expected
- Use of cell phones in class is not permitted and may require completion of additional assignments. See the “Acceptable Student Behavior” section below
- Initiative to seek help outside of class, in the instructor’s office, the AARC, or other means may be necessary in order to be successful
- D2L access. You will be required to access SFA’s Learning Management Software (at http://d2l.sfasu.edu) periodically to access documents and surveys
- Additional assignments at the instructor’s discretion
- Late work will NOT be accepted. You will be given one “Get out of Jail Free” card which entitles you to turn in one late homework assignment. This arrangement does not apply to any other type of assignment
- There is NO extra credit

Grading Policy:
- NO LATE WORK IS ACCEPTED. You will be presented with ONE (1) “Get out of Jail Free” card, which entitles you to turn in one late homework assignment. This card may only be used once. The instructor cannot guarantee that assignments turned in under this arrangement will be graded in time to be returned to you before the next exam.
- There is NO extra credit
The final exam will NOT replace any other exam scores.

If the instructor sees you use a cell phone during class, your next homework assignment may not be accepted without an additional written assignment on the topic of negative effects of the use of electronics and multitasking; see the “Expected Student Behavior” section below.

The Final Grade will be determined by the scale:
100%-90% A, 89%-80% B, 79%-70% C, 69%-60% D, and 59% and below is an F.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Homework</td>
<td>15%</td>
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<tr>
<td>Other Assignments Throughout Semester</td>
<td>5%</td>
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<tr>
<td>Tests</td>
<td>20% each</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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</tbody>
</table>

Attendance Policy:
- Attendance and participation in class are expected.
- Exam make-ups must be approved beforehand with documentation of a valid university sanctioned excuse; other make-ups are solely at the instructor’s discretion.
- Late work is NOT accepted.
- Bring your university ID card to all exams.
- Arrive on time (early) to class having done all homework from the previous section and having read the sections that will be covered in class.
- The university’s Attendance and Excused Absences Policy can be found at http://www.sfasu.edu/policies/class_attendance_excused_abs.asp

Writing Assignments:
In this course, you will be expected to complete some short writing assignments on topics that are in the intersection of mathematical content and mathematics teaching. Although these papers are short, they will be graded for content, organization, and format just as a longer paper in a humanities or social science class would be graded. A rubric will be provided. Please ask the instructor if you are unclear about the expectations for writing assignments.

In particular, all writing assignments ask you to elaborate on the question that was asked. Please do not merely cut-and-paste lists of standards or provide a summary of the content of a video clip. Add your own thoughts, and connect the question to the mathematical content we have covered in class.

Expected Student Behavior:
- CELL PHONES are not permitted in this class. DO NOT use your cell phone in class. There should be no cell phones in my, or your, sight during class. Using or monitoring a cell phone during class distracts you and keeps you from learning. Phones should be set to silent (not vibrate) mode and put away during class time. You may NOT use your cell phone as a clock or calculator on exams. If the instructor sees you use a cell phone during class, you will be required to read and turn in a written summary of an article on the topic of negative effects of the use of electronics and multitasking. You will be responsible for finding such an article. Your next homework assignment will not be accepted without the required article summary; the late homework policy will still apply.
- I will send e-mail to the entire class during the course. Check your SFA e-mail address or have SFA forward your e-mail to an account you check at least daily.
- No eating in class. Only water is allowed in room 357.
- Any disrespectful or disruptive behavior – including, but not limited to: sleeping, reading, side discussions, overt disruptions, name calling, harassing behaviors, etc - will result in your dismissal from the class, and may result in a referral to the appropriate university office.
- The instructor reserves the right to amend these rules as necessary throughout the term.

Acceptable Student Behavior (University Policy)
Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.
Student Learning Outcomes (SLO):
At the end of MTH 129, a student who has studied and learned the material should be able to:
1. Identify the number sets. [SBEC: I]
2. Identify and define recursively and explicitly (when possible) arithmetic and geometric sequences. [SBEC: II, V]
3. Use finite differences to find the closed form rule for sequences defined by a polynomial. [SBEC: II]
4. Use geometric series to find the rational number representation of a repeating decimal. [SBEC: I, II, V]
5. Define relations and represent them in a variety of ways. [SBEC: II]
6. Determine whether a relation satisfies the reflexive, symmetric, and transitive properties. [SBEC: II, V]
7. Define functions and function properties. [SBEC: II]
8. Identify the function families. [SBEC: II]
9. Interpret graphs of functions. [SBEC: II, V]

There are no specific program learning outcomes for this major addressed in this course. It is a general education core curriculum course and/or a service course.

Course Calendar

<table>
<thead>
<tr>
<th>Week</th>
<th>Topic</th>
<th>Activity</th>
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<tbody>
<tr>
<td>1</td>
<td>Course Orientation</td>
<td>2G, 2H, 3S, 3K, 3M, 3N, 3U</td>
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<td></td>
<td>8.7. Looking Back at the Number Systems</td>
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<td></td>
<td>3.5 Why the Standard Algorithms for Addition and Subtraction inBase Ten Work</td>
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<td></td>
<td>3.5 Why We Add and Subtract with Negative Numbers the Way We Do</td>
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<td>2</td>
<td>5.2</td>
<td>5G, 5H, 5I</td>
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<td></td>
<td>6.6. Dividing Decimals</td>
<td>6C, 6S</td>
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<tr>
<td>3</td>
<td>16.1 Basic Principles of Probability</td>
<td>16C, 16E, 16G, 16H, 16f, 16L, 16M</td>
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<td>16.2 Counting the Number of Outcomes: Independent Versus Dependent</td>
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<td>16.3 Calculating Probabilities in Multistage Experiments</td>
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<td>16.4 Using Fraction Arithmetic to Calculate Probabilities</td>
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<td>4</td>
<td>Exam I – Chapters 1-8</td>
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<td>5</td>
<td>7.1 Motivating and Defining Ratio and Proportional Relationships</td>
<td>7A, 7B, 7C, 7E, 7G</td>
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<td>7.2 Solving Proportion Problems by Reasoning with Multiplication and Division; 7.3 The Values of a Ratio: Unit Rates and Multipliers</td>
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<td>6</td>
<td>7.4 Proportional Relationships; 7.5 Proportional Relationships Versus Inversely Proportional Relationships</td>
<td>2S, 2U</td>
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<td>2.5 Percent;</td>
<td>7L, 7N, 7O, 7Q, 7R</td>
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<td>7</td>
<td>Exam 2: Section 2.5 and Chapter 7</td>
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<td>9.3 Equations, 9.4 Solving Algebra Word Problems with Strip Diagrams and with Algebra</td>
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<td>9</td>
<td>9.5 Sequences</td>
<td>9M, 9O</td>
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<td>10</td>
<td>9.6 Functions</td>
<td>9R, 9S, 9T</td>
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<td>11</td>
<td>9.7 Linear and Other Relationships</td>
<td>Exam 3</td>
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<td>12</td>
<td>Thanksgiving Holiday</td>
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<td>13</td>
<td>9.7 Linear and Other Relationships</td>
<td>5J</td>
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<td>14</td>
<td>5.3 Extending Multiplication to Negative Numbers</td>
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<td></td>
<td>8.6. Rational and Irrational Numbers</td>
<td>8O, 8P, 8Q</td>
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<td></td>
<td>Polynomials and Finite Differences</td>
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<td>15</td>
<td>Final Exam</td>
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Per SFA policy 5.4, your schedule should reflect that there is (1) an amount of student work per credit hour that reasonably approximates not less than one hour of class or direct faculty instruction and two hours of out-of-class student work per week for fifteen weeks over a long semester, or the equivalent amount of work over a different amount of time; or (2) at least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.
Course topics and percentage (time spent in class):

- Real Number System 20%
- Algebraic Thinking 65%
- Standards 15%

Academic Integrity (A-9.1)
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

Definition of Academic Dishonesty
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at http://www.sfasu.edu/policies/academic_integrity.asp

Withheld Grades Semester Grades Policy (A-54)
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

Students with Disabilities
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to http://www.sfasu.edu/disabilityservices/.

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