The beginning teacher of mathematics should know and understand:

1. investigate and answer questions by collecting, organizing and displaying data from real world situations,
2. support arguments, make predictions and draw conclusions using summary statistics and graphs to analyze and interpret one variable data
3. communicate the results of a statistical investigation using appropriate language
4. investigate real world problems by designing, conducting, administrating, analyzing and interpreting surveys and statistical experiments
5. use the concepts and principles of probability to describe the outcome of simple and compound events
6. explore concepts of probability through data collection, experiments and simulations
7. generate, simulate and use probability models to represent a situation
8. use the graph of the normal distribution as a basis for making inferences about a population
9. develop and justify concepts and measures of central tendency and dispersion and use those measures to describe a set of data
10. calculate and interpret percentiles and quartiles
11. explore, describe and analyze bivariate data using techniques such as scatter plots, regression lines, correlation coefficients and residual analysis
12. explain and use precise probability language to make observations and draw conclusions from single variable data and to describe the level of confidence in the conclusion
13. determine probability of construction sample spaces to model situations
14. make inferences about population using the binomial and geometric distributions
The goal of this course is to develop understanding of the mathematics. We are constantly going to be dealing with WHY more than HOW. As a future teacher you must be able to explain mathematics to your students, not just show them how to carry out mathematical procedures. We will focus on underlying structures and development of ideas. In addition, problem solving is a major component of this course. As a future mathematics teacher, you need to become familiar with and skilled in various types of problem solving techniques that are commonly used in mathematical thinking.

Make-ups: No make-ups for the Midterm will be given, the final will count 70% of your grade.

Course Grading: Will be based on Research Projects, a Midterm Exam, Homework, and a Comprehensive Final Exam. In order to successfully mathematically prepare today’s children for the technological world they face, a teacher must have a solid understanding of a broad spectrum of mathematics, including mathematics at a level considerably beyond the grade he/she teaches.

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<tr>
<th>Component</th>
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<tr>
<td>Major Research Project</td>
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<td>Discussion Boards</td>
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<td>Homework</td>
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<td>Midterm Exam</td>
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<td>Final</td>
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TECHNOLOGY REQUIREMENTS

- Internet access (high-speed preferred)
- Word processing software (Microsoft Word preferred)
- As a student enrolled at Texas A&M University-Commerce, you have access to an email account via myLeo - all my emails sent from eCollege (and all other university emails) will go to this account, so please be sure to check it regularly. Conversely, you are to email me via the eCollege email system or your myLeo email as our spam filters will catch yahoo, hotmail, etc.
**ACCESS AND NAVIGATION**

**Access and Log in Information**
This course will be utilizing eCollege to enhance the learning experience, eCollege is the Learning Management System used by Texas A&M University-Commerce. To get started with the course, go to: [https://leo.tamu-commerce.edu/login.aspx](https://leo.tamu-commerce.edu/login.aspx).

You will need your CWID and password to log in to the course. If you do not know your CWID or have forgotten your password, contact Technology Services at 903.468.6000.

**COMMUNICATION AND SUPPORT**

Texas A&M University-Commerce provides students technical support in the use of eCollege. The student help desk may be reached by the following means 24 hours a day, seven days a week. If you experience issues while taking your exams or at any other point, feel free to contact the support desk.

**Phone:** 1-866-656-5511 (Toll Free) to speak with eCollege Technical Support Representative.

• **Email:** helpdesk@online.tamuc.org to initiate a support request with eCollege Technical Support Representative.

• **Help:** Click on the 'Help' button on the toolbar for information regarding working with eCollege

**COURSE AND UNIVERSITY PROCEDURES/POLICIES**

**Attendance**

It is the prerogative of the instructor to drop students from courses in which they have accrued excessive absences (three or more). However, a student wishing to drop the course should do so. Failure to do so may result in a failing grade. Attendance is strongly encouraged for your own benefit. Any work missed due to your absence is your responsibility and should be made up as soon as possible. If you should miss a lecture, you should get a copy of someone’s notes and then I will answer any questions you have over those notes. Attendance in an online course will be observed by login into the course. Three weeks without a login will be considered excessive absences.
Cheating: Cheating of any kind will result in an F for the term. All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. (See Student’s Guide Handbook, Policies and Procedures, Conduct)

Academic Honesty Policy

Texas A&M University-Commerce does not tolerate plagiarism and other forms of academic dishonesty. Conduct that violates generally accepted standards of academic honesty is defined as academic dishonesty. "Academic dishonesty" includes, but is not limited to, plagiarism (the appropriation or stealing of the ideas or words of another and passing them off as one’s own), cheating on exams or other course assignments, collusion (the unauthorized collaboration with others in preparing course assignments), and abuse (destruction, defacing, or removal) of resource material.

Disciplinary action for these offenses may include any combination of the following:

1. Point deduction on an assignment.
2. Failure for an assignment.
3. A grade of zero for an assignment.
4. Failure for the course.
5. Referral to the Academic Integrity Committee or department head for further action.
6. Referral to the Dean of the College of Education and Human Services, Business and Technology, Arts and Sciences, or Graduate School as appropriate.
7. Referral to the University Discipline Committee.
8. Communication of student’s behavior to the Teacher Certification Office and/or Dean of the College of Education as constituting a reason to bar student from entering into or continuing in a teacher certification program. Procedures, A 13.04, 13.12, 13.31, and 13.32

ADA Statement

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 have a disability requiring an accommodation, please contact:
The course calendar is in eCollege listed by week. Assignments will be opened on Monday and will not be due until the next Sunday at midnight. Testing for the midterm and final will be face-to-face, which means in person. Dates and times are listed below. If you are a student out of the State, please email me for instructions for testing.

**Course Exams:**

**Midterm**
- Corsicana – October 10, 5:00 – 7:00
- Commerce- October 9, 3:00 – 5:00

**Final Exam**
- Corsicana – December 5, 5:00 – 7:00
- Commerce- December 4, 7:00 – 9:00