MEETING TIMES

MATH 1324-308 meets MWF from 7am-7:50am in G121
MATH 1324-310 meets MWF from 8am-8:50am in G121
MATH 1324-313 meets MWF from 9am-9:50am in G121

CONTACT INFORMATION

Instructor: Dr. Patrice Poage
Office Hours: Mon/Wed 11am-11:45am; Tues/Thurs 8am-9am & 12noon-1:30pm. And by appointment and through EDMODO
Email: patrice.poage@blinn.edu
Office: L222
Phone: 979-209-7383
Website: http://tinyurl.com/drpoage

DESCRIPTION

Mathematics for Business & Social Sciences is the study of topics from college algebra including linear equations, quadratic equations, functions and graphs, inequalities, mathematics of finance including simple and compound interest and annuities, linear programming, matrices, systems of linear equations, applications to management, economics, and business and probability, including expected value.

3 lecture hours per week; 48 total contact hours. Credit: 3 semester hours.

Requisites

Prerequisite: MATH 1314 or MATH 1325 (or MATH 2412 or higher) or equivalent with a grade of “C” or better; or a college ready TSIA math score or TSIA exemption; or an appropriate score on an approved placement test.

Corequisites: None

CORE CURRICULUM STATEMENT

Through the Texas Core Curriculum, students will gain a foundation of knowledge in human cultures and the physical and natural world, develop principles of personal and social responsibility for living in a diverse world, and advance intellectual and practical skills that are essential for all learning. For details relating to this core course, please see:

http://www.blinn.edu/academics/core_curriculum.html

General

ACGM Approval Number: 27.0301.52 19  CIP Area: Mathematics
Course Type: Academic  Core Course: Yes
Purpose

All of the mathematics courses are based upon a strong foundation in algebraic skills. The faculty has made a commitment to the proper placement of students in algebra courses and above. Blinn College’s commitment to providing its students with a strong academic foundation is reflected in requiring its graduating students to successfully complete 1000-level or above mathematics courses for the mathematics requirement in an A.A. or A.S. degree. The purpose of this course is to give the student mathematical background to prepare the student for a number of other freshman level math classes such as MATH 1325.

Blinn College policies on civility, class attendance; scholastic integrity; students with disabilities; final grade appeals; and electronic devices as stated in the Blinn College Faculty Handbook, Blinn College Catalog and specific technical program handbooks. All policies, guidelines and procedures in the Faculty Handbook, the Board Policy and Administrative Procedure Manuals are applicable to this course.

Attendance Policy

The College District believes that class attendance is essential for student success; therefore, students are required to promptly and regularly attend all their classes. The faculty shall require students to regularly attend class and shall keep a record of attendance from the first day of classes and/or the first day the student’s name appears on the roster through final examinations. If a student has one week’s worth of unexcused absences during the semester, he or she will be sent an e-mail by the College District requiring the student to contact his or her instructor and schedule a conference immediately to discuss his or her attendance issues. Should the student accumulate two weeks’ worth of unexcused absences, he or she will be administratively withdrawn from class.

There are four forms of excused absences recognized by the institution:

1. observance of religious holy days—The student should notify his or her instructor(s) not later than the 15th day of the semester concerning the specific date(s) that the student will be absent for any religious holy day(s);
2. representing the College District at an official institutional function-If a student is asked by the College District to be an official representative of the College District at any function approved by the institution, the student shall be excused from any classes missed and must be allowed to complete all work without penalty for that absence(s) in a timely manner as directed by the faculty member;
3. a high school student representing the independent school district at an official institutional function- If a high school student is asked by the independent school district to be an official representative of the school district at any function approved by the institution, the student shall be excused from any class missed and must be allowed to complete all work without penalty for the absence(s) in a timely manner as directed by the faculty member; and
4. military service- If a student can prove he or she is serving on active duty to which he or she is called with the Armed Forces of the United States, the student shall be excused from attending classes and allowed to complete an assignment or take and examination from which the student is excused within a reasonable time after the absence.

Other absences may be excused at the discretion of the faculty member. A student enrolled in a developmental course is subject to College District-mandated attendance policies. Failure to attend developmental classes shall result in removal from the course as defined by the College District. Board Policy FC (LOCAL)

It is the student’s responsibility to officially drop a class he or she is no longer attending. More information on drop limits and withdrawing can be found in the Blinn College Catalog. The last day to drop with a Q is according to the Academic Calendar.
Scholastic Integrity

Blinn College does not tolerate cheating, plagiarism, or any other act of dishonesty with regard to the course in which you are enrolled. The following text defines the faculty member’s responsibility with regard to the scholastic integrity expectation for this and all courses at Blinn College. In a case of scholastic dishonesty, it is critical that written documentation be maintained at each level throughout the process.

It is the responsibility of faculty members to maintain scholastic integrity at the College District by refusing to tolerate any form of scholastic dishonesty. Adequate control of test materials, strict supervision during testing, and other preventive measures should be utilized, as necessary, to prevent cheating or plagiarism. If there is compelling evidence that a student is involved in cheating or plagiarism, the instructor should assume responsibility and address the infraction. Likewise, any student accused of scholastic dishonesty is entitled to due process to resolve the allegation as outlined in Blinn College Board Policy FLDB (Local). The Scholastic Integrity Policy is located in the Blinn College Catalog.

Assessment

The effectiveness of MATH 1324 is measured by two instructional effectiveness methods of course assessment--tracking and grade distributions. Tracking will be measured by the percentage of students that made an A-C in Math1324 and went on to make an A-C in MATH 1325. Success will be measured by a 60% or higher threshold. Grade distribution will be measured by the percentage of students making an A-C. Success will be measured with a 60% or higher threshold.

Civility Statement

Members of the Blinn College community, which includes faculty, staff and students, are expected to act honestly and responsibly in all aspects of campus life. Blinn College holds all members accountable for their actions and words. Therefore, all members should commit themselves to behave in a manner that recognizes personal respect and demonstrates concern for the personal dignity, rights, and freedoms of every member of the College community, including respect for College property and the physical and intellectual property of others.

Civility Notification Statement. If a student is asked to leave the classroom because of uncivil behavior, the student may not return to that class until the student arranges a conference with the instructor; it is the student’s responsibility to arrange for this conference.

This statement reflects step one in a possible four step process. The Incivility Protocol is detailed in the Blinn College Administrative Procedure Manual.
COURSE REQUIREMENTS

The student should maintain at least a 70% average on all course work covering matrices, systems of linear equations, linear programming, mathematics of finance, sets, probability and statistics.

EVALUATION

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight</th>
<th>Topic</th>
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<tr>
<td>Grading Policy</td>
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<td>• 4 Exams - 16% each</td>
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<td>• Quizzes - 8%</td>
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<td></td>
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<td>• Online Homework - 8%</td>
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<td>• Final Exam - 20%</td>
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</table>

Exams 16% each

There will be 4 major exams.

Quizzes 8%

Quizzes might be individual, partners, open notes, no notes, or take-home. Each is worth 10 pts and the lowest quiz grade will be dropped at the end of the term.

Online Homework 8%

There are 24 online homeworks due throughout the course of the semester. The lowest OLHW grade will be dropped at the end of the term.

Final Exam 20%

The final exam is cumulative and is a department final (common exam). The instructor may choose to add problems to the final.

Breakdown

Below are the letter grades that correspond to the final numerical grade:

A = 89.5-100
B = 79.5-89.4
C = 69.5-79.4
D = 59.5-69.4
F = 0-59.4

Final Grade Appeal

If a student wishes to appeal a final grade in a course, Blinn College Board Policy FLDB (Local), Course Grade Complaints, outlines the timeline and steps for appeal. This policy is located in the Blinn College Catalog.
Students with Disabilities

Non-Discrimination Statement

Blinn College does not discriminate against qualified individuals with disabilities in the recruitment and admission of students, the recruitment and employment of faculty and staff, or the operation of any of its programs and activities, as specified by applicable federal laws and regulations. The designated coordinator for Blinn College’s compliance with Section 504 of the Rehabilitation Act of 1973, the Americans with Disabilities Act of 1990 (ADA), and the Americans with Disabilities Act Amendment Act (ADAAA) is Patricia E. Moran, M.Ed., 902 College Avenue, Brenham, TX 77833, (979) 830-4157. The College’s facilities are accessible to students and visitors with disabilities. Designated parking spaces, ramps, handicapped restroom facilities, elevators, and assistance from College employees are readily available on all campuses. The College’s faculty and staff work closely with students with disabilities to meet their individual needs.

Services for Students with Documented Disabilities

Students with documented disabilities must self-identify and provide current, appropriate documentation of the disability to the Office of Disability Services (ODS) prior to receiving services. Students are encouraged to contact this office as early as possible to initiate services. Direct services to students with disabilities are provided in the following areas:

- Assessment of needs and appropriate services
- Provision of classroom and testing accommodations
- Assistance in orientation and registration procedures
- Counseling on disability related issues

Information, education, referrals, and consultation about specific disabilities are available to interested parties on request. For answers to specific questions or to request an information packet, contact the Office of Disability Services on the specific campus you will be attending.

Bryan Campus: (979) 209-7251; Brenham, Sealy, Schulenburg Campuses: (979) 830-4157

Electronic Devices

Cellular telephones and beepers/pagers must be disengaged while the student is in the Blinn College Library or any classroom/lab, unless otherwise instructed. Any noncompliance with this policy shall be addressed in accordance with the Blinn College Administrative Procedure Manual- Incivility Protocol.

MATERIALS

Course Notes: Purchase Dr. Poage's MATH 1324 Course Packet at Blinn's Copy Center (Copy Stop located beside the bookstore)

MyMathLab: go to Blinn's ecampus website, log in to our class, click on the Pearson link on the right of page. You will automatically be in my class. When you go to take the first homework, it will prompt you for the access code you bought or you can buy one then and there. This comes with an online textbook. You can also purchase the code at the bookstore on campus.

Graphing Calculator: A TI-83/84 graphing calculator is REQUIRED for this course. Symbolic calculators such as the TI-89 and the TI-92 will not be allowed. All programs must be deleted from your calculator.

COURSE POLICIES

Attendance Policy

Beware of being dropped: 1 week worth of absences in a TR class is = 2 days; 2 week worth of absences = 4 days. Thus, if you miss 4 days you will be dropped from this course.

Tardies: 2 tardies = 1 absence. If you show up 1-14 minutes late for class you will be considered tardy.

Absences: If you show up to class more than 15 minutes late, you will be counted absent for that day

If you leave class early without prior permission from the instructor, you will be counted absent.

Classroom Policies

- No food, drinks, or tobacco products are allowed in the classroom.
- NO TEXTING during class or you will be asked to leave and counted absent.

Sources of Help

- ASK QUESTIONS IN CLASS
- Ask me questions before/after class
- Come to my office hours
- work with each other (form study groups)
- Get a private tutor
- Utilize EDMODO

Make-Up Policy

There will be NO make-ups given without an official authorized excuse. If you are not sure what constitutes as an excused absence, ask your instructor.

There will be NO make-ups for online homework.

The student must contact the instructor either prior to or within 24 hours of missing an exam in order to get to take a make-up.

Test Day Policy

- All bags/books/papers/purses/coats will need to be placed against either the front or back wall.
- No calculator covers…keep them against the wall with your stuff.
- No scratch paper. If you need some, just ask.
- Turn your phone OFF and take it to your desk with you. Set it upside down in front of you.
- You may NOT leave the classroom during the test for ANY reason. Go to the bathroom BEFORE the test. If you leave, I will grade your test at that point, however far you’ve gotten.
- All you need at your desk is: Pencil/Eraser/Calculator/Phone/Drink
- NO PROGRAMS in your calculator AT ALL.
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<thead>
<tr>
<th>Date</th>
<th>Sections</th>
<th>Content</th>
<th>CH</th>
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<tr>
<td>30-Aug</td>
<td>7.1</td>
<td>Introduction to course and begin Sets</td>
<td>1.5</td>
</tr>
<tr>
<td>1-Sep</td>
<td>7.1, 7.2</td>
<td>Sets and Application of Venn Diagrams</td>
<td>1.5</td>
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<tr>
<td>6-Sep</td>
<td>7.3, 7.4</td>
<td>Introduction to and Basic Concepts of Probability</td>
<td>1.5</td>
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<tr>
<td>8-Sep</td>
<td>7.5</td>
<td>Conditional Probability; Independent Events</td>
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<tr>
<td>13-Sep</td>
<td>7.6</td>
<td>Bayes' Theorem</td>
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<tr>
<td>15-Sep</td>
<td>7.1-7.6</td>
<td>Review for Exam 1</td>
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<tr>
<td>20-Sep</td>
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<td>Exam 1</td>
<td>1.5</td>
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<tr>
<td>22-Sep</td>
<td>8.1</td>
<td>Multiplication Principle; Permutations</td>
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<tr>
<td>27-Sep</td>
<td>8.2</td>
<td>Combinations</td>
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<td>29-Sep</td>
<td>8.3, 8.5</td>
<td>Probability Applications of Counting Principles &amp; Random Variables</td>
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<tr>
<td>4-Oct</td>
<td>8.5, 9.1/9.2</td>
<td>Probability Distributions; Expected Value, Measures of Central Tendancy &amp; Variation</td>
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<tr>
<td>6-Oct</td>
<td>9.3</td>
<td>The Normal Distribution</td>
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<tr>
<td>11-Oct</td>
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<td>Review for Exam 2</td>
<td>1.5</td>
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<td>13-Oct</td>
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<td>Exam 2</td>
<td>1.5</td>
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<tr>
<td>18-Oct</td>
<td>Ch 5</td>
<td>Simple &amp; Compound Interest</td>
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<tr>
<td>20-Oct</td>
<td>Ch 5</td>
<td>Future &amp; Present Value of an Annuity, Amortization</td>
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<td>25-Oct</td>
<td>4.1, 4.2</td>
<td>Introduction to Simplex Method, setting up Tableaus, Reading Solutions</td>
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<tr>
<td>27-Oct</td>
<td>4.2</td>
<td>Set up and solve Simplex problems through pivoting</td>
<td>1.5</td>
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<tr>
<td>1-Nov</td>
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<td>Review Test 3</td>
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<td>3-Nov</td>
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<td>Exam 3</td>
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<tr>
<td>8-Nov</td>
<td>1.2, 10.1</td>
<td>Linear Functions and Applications; Properties of Functions, Domains</td>
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<td>10-Nov</td>
<td>10.2</td>
<td>Quadratic Functions</td>
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<tr>
<td>15-Nov</td>
<td>10.2, 10.4</td>
<td>Quadratic &amp; Exponential Functions</td>
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<tr>
<td>17-Nov</td>
<td>10.4, 10.5</td>
<td>Exponential and Logarithmic Functions</td>
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<td>22-Nov</td>
<td>2.4</td>
<td>Multiplication of Matrices</td>
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<tr>
<td>24-Nov</td>
<td></td>
<td>Thanksgiving Holiday</td>
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<tr>
<td>29-Nov</td>
<td>2.2</td>
<td>Solving Linear Systems by Gauss-Jordan Method</td>
<td>1.5</td>
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<tr>
<td>1-Dec</td>
<td></td>
<td>Review for Exam 4</td>
<td>1.5</td>
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<tr>
<td>6-Dec</td>
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<td>Exam 4</td>
<td>1.5</td>
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<tr>
<td>8-Dec</td>
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<td>Review for Final (Last Day of Class)</td>
<td>1.5</td>
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<tr>
<td>13-Dec</td>
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<td>Final Exam</td>
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<td>Total contact hours 48</td>
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** last day to Q-drop is November 18th
Student Outcomes

Upon successful completion of this course, students will:

1. Apply elementary functions, including linear, quadratic, polynomial, rational, logarithmic, and exponential functions to solving real-world problems.
2. Solve mathematics of finance problems, including the computation of interest, annuities, and amortization of loans.
3. Apply basic matrix operations, including linear programming methods, to solve application problems.
4. Demonstrate fundamental probability techniques and application of those techniques, including expected value, to solve problems.
5. Apply matrix skills and probability analyses to model applications to solve real-world problems.

1324 Online Homework Deadlines: (note: all OLHWs are due by 11:55pm on the due date)

- 7.1, 7.2, 7.3, 7.4, 7.5, & 7.6 are all due Thurs, Sept. 15th
- 8.1, 8.2, 8.3, 8.5, 9.1/9.2 are all due Tues, October 11th
- 5.1, 5.2, 5.3, 4.1, 4.2 are all due Tues, November 1st
- 1.2, 10.1, 10.2, 10.4, 10.5, 2.4, 2.2 are all due Thurs, Dec 1st
- Note: there are 23 OLHWs. I will drop your lowest ONE.

Suggested homework and practice exams can be found on Dr. Poage’s webpage: http://www.tinyurl.com/drpoage

then click on MATH 1324, then click on Suggested Homework. These problems are to be done out of your textbook, but will not be turned in for a grade.