



exists to provide a quality education from a biblical worldview that challenges minds, transforms lives, and equips students for servant leadership and lifelong learning.

Math 1324 Mathematics for Business and Social Sciences Syllabus

Instructor: Whitney Hastings

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Contact Information:

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Course Prerequisite

"C" or higher in MATH 0408 or acceptable placement score/exemption.

Catalog Course Description

The application of common algebraic functions, including polynomial, exponential, logarithmic, and rational, to problems in business, economics, and the social sciences are addressed. The applications include mathematics of finance, including simple and compound interest and annuities; systems of linear equations; matrices; linear programming; and probability, including expected value.

Required Textbook and Materials

Mathematics for Business, 10th Edition, by Stanley A. Salzman and Gary Clendenen, Pearson Textbooks, ISBN-13: 978-0132898355. **The book does not have to be purchased. The online access code MUST be purchased. All of your assignments and tests will be completed through MyMathLab online.**

Course Outlines (Moodle)

TI-83 Calculator or its equivalent is required

Computer with access to the internet.

Student Learning Objectives/Outcomes

During this course, I as an instructor expect you, the student to

- develop a foundation of knowledge for this mathematics course,
- nurture and implement an "I can" attitude in learning mathematics,
- continue to develop the intellectual and practical skills that are essential for all learning, and
- pursue improved personal and social responsibility.

It is my goal through the completion of this course that **every** student will be able to apply algebraic properties, concepts, and skills to represent problem situations and solve word problems in business scenarios and will have developed the empirical and quantitative skills to:

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.

Course Philosophy

As an instructor at Jacksonville College, I embrace the doctrinal distinctives recognized by the college:

- The Bible is the inerrant, infallible word of God and is the final authority in all matters of belief and practice.
- There is one and only one living and triune God. He is Creator, Redeemer, Preserver and Ruler of the Universe.
- Christ is the eternal Son of God. In His incarnation, Jesus was conceived of the Holy Spirit and born of the Virgin Mary.
- Man is the special creation of God, who created us male and female.
- Salvation is the gracious act of God through faith in Jesus Christ and Him alone.
- God works through people, leading them by the Holy Spirit.
- Believers are to mature in the faith through discipleship and serve God and others through a New Testament Church.
- Jesus Christ will return personally and visibly in glory to the earth. Christ will judge all men according to His will.

In upholding this philosophy, I will provide a distinctly Christian environment in my classroom, demonstrate high standards of ethics and morality, pursue academic excellence, emphasize the Bible in my curriculum, programs, and services and accept all regardless of their race, gender, national origin, or disability, while promoting both social and personal responsibility.

Instructional Methods

Methods of teaching and course activities used to assist students in meeting the course goals may include, but not be limited to:

- covering selected topics from chapters 1-19
- reading and writing assignments;
- class participation and discussions;
- individual and/or collaborative projects that require reflection and analysis;
- online homework assignments;
- and tests including a comprehensive final.

Course Grading Policy

It should be noted that enrollment in this course does not guarantee credit for this course. The final responsibility for learning lies with the student.

The course grade is the weighted mean of quizzes, activities, online homework, projects and class discussion.

Attendance - 10%

Homework - 40%

Tests - 30%

Faith Project from Moodle - 10%

Final Exam - 10%

Extra Credit is available through moodle.

Attendance Policy

Online students are required to attend class just as traditional students are. Online students attend class by active participation in the course. Students attend their first class session by posting a response to the syllabus posted in the course on MOODLE. This indicates the student is active in the course. Any student who does not post a response to the syllabus discussion in MOODLE and enroll in the MyMathLab course by the Add/Drop Date will be removed from the course. Students will be required to log in to the Moodle course and pearson.com **once each week** during the term.

RESPONDING TO STUDENT MESSAGES: All student inquiries will be responded to within 24 hours, with the exception of weekends and holidays.

Online Student Support Services

Support services and resources are available to all online students and may help you succeed in this course. Find out what services are available and how to access them by visiting our [Online Student Support Services](#) page.

Library Course on Moodle

The Norman Library provides many online resources to students. To access these resources, or to request assistance with using these resources, you may visit the Library course on Moodle. Just sign into Moodle and then in the navigation block on the left side of the page click the current term and then the link to the Library course.

Jacksonville College Honor Code

Each person of the Jacksonville College community is expected to uphold The Honor Code. The purpose of the Honor Code is to establish and preserve an environment of honor and integrity in the academic community. A deep faith in God is the foundation of Jacksonville College and should influence the personal and scholarly conduct of every student. Therefore, "And whatever you do, do it heartily, as to the Lord and not to men" Colossians 3:23 (NKJV).

A violation of the Honor Code consists of but is not limited to the following defined actions:

DEFINITIONS:

A. **Lying:** making a false statement made with the deliberate intent to deceive. Lying includes but is not limited to the following:

1. Misrepresenting yourself by having another individual substitute for you in the taking of a quiz or test.
2. Falsifying college documents including alteration or forgery. (Disciplinary consequences for this violation are determined by the College administration.)
3. Providing false information during the course of an investigation of an alleged violation of the JC Honor Code or the Student Code of Conduct.

B. **Stealing:** taking the property of another, including College property, without permission or right.

C. **Cheating:** dishonest behavior including but not limited to the following acts:

- **Plagiarism:** the act of taking or closely imitating another individual's thoughts or words and using them as your own, whether by paraphrase or direct quotation, without giving credit through proper documentation; the submission of an assignment written by another student, commercial organization, or anyone other than the student.
- **Unauthorized assistance or collaboration:** students working together on any tests, quizzes, assignments or exams without the instructor's permission.

- **Use of Unauthorized Materials:** using textbooks, cell phones, laptops, calculators, or other electronic devices for tests, quizzes, or assignments without instructor's permission.
- **Unauthorized Dual Submission of Previous Academic Work:** using any work from a previous course or another course for an assignment unless a student has received prior permission from an instructor.
- **Other Academic Misconduct:** including, but is not limited to, stealing quizzes or exams, altering academic records including grades, sabotaging the work of another student, or unauthorized use of another student's electronic devices; intentionally reporting a false violation of academic integrity or offering a bribe to any College member in exchange for special consideration or favors.

DISCIPLINARY CONSEQUENCES of ACADEMIC VIOLATIONS:

- **FIRST OFFENSE:** The student will be given a zero or "F" on the test, exam, course paper, or class assignment.
- **SECOND OFFENSE:** (whether in same class or another class) The student will receive an "F" in the course in which the second offense occurred.
- **THIRD OFFENSE:** (whether in the same class or another class) The student is subject to being withdrawn from the College by the Academic Dean

REPORTING ACADEMIC VIOLATIONS:

- The instructor and student will sign the Academic Violation Report Form. The Instructor will send copies of the Report Form to the Academic Dean and the Dean of Students.
- The Dean of Students may talk with the student regarding the academic violation. (See Student Handbook pp. 20 and 23.)
- The instructor will keep the Academic Violation Report Form and a copy of the work in question as long as the student attends Jacksonville College.
- For a second offense, the Academic Dean will notify the student regarding an "F" in the course in which the second and subsequent violation occurred.
- "For a third offense, the Academic Dean will notify the student of their due process in the withdrawal procedures from the College."

APPEALS:

The student may refer to the "Student Grievance Procedure" section in the Course Catalog.

JACKSONVILLE COLLEGE HONOR CODE STUDENT PLEDGE:

As a student of Jacksonville College, I agree to abide by the Honor Code. I will neither lie, steal, cheat, nor tolerate this behavior in others. I will not plagiarize, use unauthorized materials, or give or receive unauthorized help on assignments, papers, or exams whether online or in the classroom. The work that I submit will be my work only and not the work of others. I pledge to report any suspected dishonesty or violation of the Honor Code to the instructor or the Dean of Students.

Having read and understood the contents and purpose of this document, my signature indicates my commitment to abide by the Jacksonville College Honor Code.

Student Signature: _____

Date: _____

Technical Support

If you experience any technical problems with your MOODLE account, Jagmail, or other technology needs, you may send an email to: help@jacksonville-college.edu

Accommodations for Students with Disabilities

Jacksonville College complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990. This compliance is pertaining to the provision of reasonable accommodations for students with a disability. In accordance with Section 504 and ADA guidelines, Jacksonville College strives to provide reasonable accommodations to students who request and require them. The Federal regulations that deal with implementing Section 504 and the ADA establish that reasonable and appropriate academic accommodations must be provided to students with disabilities to allow equal access to educational opportunities. While providing accommodation, however, institutions of higher education are not required to lower academic standards or compromise the integrity of the school, department, or program. The Office of Disability Services recommends accommodations for students with disabilities in compliance with these Federal and State mandates. If you believe that you have a disability requiring accommodations, please contact the Office of Disability Services (counselor.504@jacksonville-college.edu; 903-586-2518 ext 7103).

Creating Conditions for Successful Learning

Research shows success in math class depends very much on two factors: the amount of time spent working on the material, and the student's beliefs about mathematics and what it means to understand and do mathematics. With this in mind, the following suggestions are things you can do to increase your success in mathematics.

- Realize that mathematics is not just a set of procedures and that mathematical concepts involve a lot of thinking and reasoning. Consequently, being able to execute procedures accurately is only one part of doing well in this class.
- Realize that success in mathematics is less about "ability" and more about willingness to think and to work hard to make sense of things.
- A major key to success in math is working problems. The more problems you work, the more you'll understand and the more confident you'll become. This means that homework is a necessity, both for your learning and for your grade. You are experiencing a provision from God, and we must be good stewards of God's blessings.
- Take organized notes and use the resources available to you when you encounter difficult problems and/or concepts.

Instructor Goals for Continued Student Success

During your time in my class, I will strive to:

Provide a Christ-centered, quality education that prepares you for further educational endeavors – "Whatever you do, work at it with all your heart, as working for the Lord, not for human masters..." Colossians 3:23

Prepare you to demonstrate your Christian faith in every dimension of your life – "And the things you have heard me say in the presence of many witnesses entrust to reliable people who will also be qualified to teach others." 2 Timothy 2:2

Foster in you a desire for lifelong learning – "Do your best to present yourself to God as one approved, a worker who does not need to be ashamed and who correctly handles the word of truth." 2 Timothy 2:15

Honors Program

The Honors Program at Jacksonville College exists to provide ambitious students additional opportunities to develop higher level thinking skills and connect subject areas to the community through service, faith, and culture. If you are interested in applying for admission to the Honors Program, you may pick up an application in the Academic Dean's office.