Bethune-Cookman University
Freshman College

MA134 Liberal Arts Mathematics
COURSE OUTLINE

Liberal Arts Mathematics MA 134 3 credit hours Fall 2008

Instructor: __________________________ Title: _______________________________________
Office Location: ______________________ Office Phone: _____________________________
Email: ______________________________ Office Hours: ________________________________

Date: August 13, 2008

PREREQUISITES: MA 113 or an appropriate score on the placement test in or an appropriate SAT/ACT score.

COURSE DESCRIPTION: A course including voting techniques, fair division and apportionment, graph theory, linear and exponential growth, financial mathematics, and the history of mathematics. Emphasis is placed on learning to read the language of mathematics in addition to the use of technology.


MAIN COURSE GOAL: The main goal of this course is to provide students with a solid mathematical foundation in the logical thinking skills and problem solving abilities needed for their formal education and for their lives as educated adults.

BETHUNE-COOKMAN UNIVERSITY MISSION STATEMENT:
The mission is to serve in the Christian tradition the educational social, and cultural needs of its students—traditional and nontraditional—and to develop in them the desire and capacity for continuous intellectual and professional growth, leadership and service to others. Institutional priorities in the mission of the College are teaching, research, community service and commitment to moral and personal values.

IMPACT ON B-CU MISSION AND INSTITUTIONAL STUDENT LEARNING OUTCOMES (ISLOs)
Through the attainment of the Course Student Learning Objectives (CSLOs), students will acquire knowledge, skills and competencies outlined in the Institutional Student Learning Outcomes (ISLOs), School Student Learning Outcomes, (SSLOs) and Program Student Learning Outcomes (PSLOs). The Course Student Learning Objectives fully support the University Mission and Core Values as stated in the Strategic Plan, as well as the School Goals.

The Institutional Student Learning Outcomes (ISLOs) include the following:
1. Complex cognitive skills
2. Practical knowledge and competency
3. Appreciation of human differences and commonalities
4. Integrated sense of identity and civic responsibility
FRESHMAN COLLEGE SCHOOL STUDENT LEARNING OUTCOMES (SSLOs) ADDRESSED IN THE COURSE OBJECTIVES

1. Upon completing Freshman College courses, freshmen will recognize and describe the contributions of people of African descent in a diverse global society through readings, class discussions, and oral presentations at an acceptable level.

8. Upon completing Freshman College courses, freshmen will apply quantitative reasoning through the application of knowledge, skills, and competencies when solving math and real life problems with satisfactory performance on tests, quizzes, exams, and/or other assessments.

MATH AREA PROGRAM STUDENT LEARNING OUTCOMES (PSLOs) ADDRESSED IN THE COURSE OBJECTIVES

1. Upon completing Freshman College courses, the student will be able to interpret mathematical models such as formulas, graphs, tables, and schematics and draw inferences from them when solving math and/or real life problems with satisfactory performance on tests, quizzes, exams, and/or other assessments.

2. Upon completing Freshman College courses, the student will be able to represent mathematical information symbolically, visually, numerically, and verbally when solving math and/or real life problems with satisfactory performance on tests, quizzes, exams, and/or other assessments.

3. Upon completing Freshman College courses, the student will be able to use a variety of mathematical methods (algebraic, geometric and/or statistical methods, utilizing technology when appropriate) when solving math and/or real life problems with satisfactory performance on tests, quizzes, exams, and/or other assessments.

4. Upon completing Freshman College courses, the student will be able to apply critical thinking skills when solving math and/or real life problems with satisfactory performance on tests, quizzes, exams, and/or other assessments.

COURSE STUDENT LEARNING OBJECTIVES AND MEASUREMENTS

1. The Freshman College Liberal Arts Mathematics student will demonstrate an understanding of the history of Mathematics and identify important events and contributions made by various mathematicians and cultures on course work and exams.

2. The Freshman College Liberal Arts Mathematics student will compare various methods of voting on course work and exams.

3. The Freshman College Liberal Arts Mathematics student will compare various methods of apportionment on course work and exams.

4. The Freshman College Liberal Arts Mathematics student will use graph theory techniques to solve problems on course work and exams.

5. The Freshman College Liberal Arts Mathematics student will demonstrate a mathematical understanding of population growth in nature and in finance on course work and exams. PSLO 1, 2, 3, 4 (exam question/problem demo)
ACADEMIC AFFAIRS VISION
Students will graduate B-CU as transformative leaders with complex cognitive skills; practical knowledge and competency; an appreciation of human differences; and an integrated sense of identity and civic responsibility that prepares them to live successfully within a multicultural and global community.

REQUIREMENTS OF THE COURSE:
1. Student will have in his/her possession a copy of the required textbook, and a scientific or graphing calculator.
2. Student will attend and be punctual to all classes. (Attendance is considered essential for the student to obtain as much as possible from the lecture and the work done in class.)
3. Student will use Standard English (written & spoken) in class.
4. Student will keep a notebook consisting of notes and assignments, etc.
5. Student will complete all problems on assignment sheet and any others that the instructor might assign. Student will submit assignments on or before the due date. The student is responsible for obtaining the exact assignment from a classmate or the instructor in cases of absences.

ATTENDANCE:
1. CLASS ATTENDANCE IS COMPULSORY FOR ALL STUDENTS; Absences will result in lower grades earned.
2. NO STUDENT WILL BE PERMITTED UNEXCUSED ABSENCES. Six unexcused absences may result in a failing grade.
3. Excused absences include those absences incurred by the student's participation in College or class-sponsored activities. Examples of excused absences include band, chorale, gospel choir, athletic teams, field trips, proof of illness with official documentation from physician or verifiable authority. All excuses must be immediately presented to instructor when student returns to class.
4. Every student is responsible for informing teacher(s) of impending absence(s) from class when the student has such information. Student must complete all make up work within 48 hours after returning to class.
5. Excuses from the Offices of Dean of Men or Dean of Women will not be accepted.

EXIT STANDARDS:
The possible grades for this course are: A, B, C, D, F, and I.
A, B, C Grades indicate that the student has successfully completed the course by having the appropriate average as indicated below.
D, F Grades indicate that the student has not successfully completed the course and that the course MUST BE REPEATED. See the Freshman College objectives in the college catalogue.
I Grade given only to students who are passing the course. This grade is given only through special arrangement with the instructor and the department chair. Students receiving an I are required to take MA 133 the following semester.
NOTE: The grade of "I" will automatically change to "F" if it is not removed within the first six (6) weeks of the following semester.
EVALUATION OF STUDENT PERFORMANCE:
Final Exit Examination* 20 % or 200 POINTS
Midterm 10% or 100 POINTS
Homework 10% or 100 POINTS
Tests 50% or 500 POINTS
Two Research Papers 10 % or 100 POINTS
TOTAL: 100 % or 1000 POINTS

GRADING CRITERIA:
The following grading scale will be observed:
90 -100 % or 900 - 1000 POINTS --> A
80 - 89 % or 800 - 899 POINTS ---> B
70 - 79 % or 700 - 799 POINTS ---> C
60 - 69 % or 600 - 699 POINTS ---> D
0 - 59 % or 0 - 599 POINTS ---> F

Technology Statement:
All students will need a scientific or graphing calculator. The recommended calculator is the TI 84. There are instructional videos available in the learning center on the course content. Visit the math website at www.cookman.edu.
The following are websites that you may find useful:
www.mathnerds.com
www.fliegler.com/mathman.htm (free on-line site for homework help)
http://staff.jccc.net/nancyc/ (developmental math)
www.aplusmath.com (developmental math)
www.purplemath.com (beginning and intermediate algebra)
www.gomath.com (Geometry)
www.mathwords.com (math dictionary)
www.sosmath.com (calculus)
www.studystack.com (really cool website that has electronic flashcards for exam review)

METHODS OF INSTRUCTION
Lecture, discussion and group activities will be employed. Some material may be presented online. Some writing assignments may be given.

TOPICAL OUTLINE TEMPLATE
***See individual instructors’ supplementary outlines for detailed information about courses reflecting specific learning community themes and assignments and plans unique to individual sections. The course will include two library research assignments.

FINAL EXAMS/MAKE UP EXAMS
The final exam will be given in class during finals week. The location will be determined later in the semester. It is the student’s responsibility to be aware of the location, date, and time of the examination. Make-up tests will not be permitted for the final exam unless the student has an excused absence with official documentation and the approval of the Math Chair. Excused absences include those absences incurred by the student’s participation in B-CU sponsored or class-sponsored activities. Examples of excused absences include band, chorale, gospel choir, athletic teams, field trips, or proof of illness with official documentation from physician or verifiable authority.
INCOMPLETE POLICY
In the event of an extreme and unavoidable circumstance that would inhibit the student from successful completion of the course, a student may request to be given an incomplete by the instructor upon approval of the area coordinator. The instructor and the area coordinator reserve the right to deny a student’s request for an incomplete. Prior to receiving an incomplete the student must have a passing grade in the course. Students who request an incomplete must have official documentation to support the request. Examples of official documentation include proof of illness from a physician or verifiable authority, death certificates or obituaries, military activation letters on government letterhead. **Students will not be granted an incomplete for the following reasons: failure to take the exam at the appropriately scheduled time or location or unsatisfactory performance on an exam.** Upon receiving an incomplete, it is the student’s responsibility to complete all assignments and tests agreed upon by the student and the instructor before the removal of incomplete deadline set by the registrar. Failure to complete any assignment will result in the failing grade in the course.

ACADEMIC HONESTY
Students must submit their own work, and they must acknowledge any outside help they had in preparing an assignment. If anyone copies or paraphrases the words of another writer without acknowledgement or submits another person’s work as his or her own, that person is guilty of plagiarism. **Evidence of cheating or plagiarism will result in the student receiving a grade of “0” for the work and may result in an “F” for the course.** Plagiarism and cheating are major violations of the Student Code of Conduct and may result in the student’s indefinite suspension from the college.

CLAST POLICY
Students must demonstrate appropriate communication skills prior to enrolling in senior seminar. Students who pass 3 parts of the CLAST (excluding math) or obtain a 2.5 GPA in English (EN 131 and EN 132) and reading (RE 260) will be allowed to enroll in their respective senior seminar courses. Transfer students who have passed the 3 CLAST communication tests, satisfied current exemptions or having an AA degree, will not be required to take RE 260 or the CLAST prior to enrolling in senior seminar. Under documented and extenuating circumstances, students may petition the CLAST Review Committee for exemptions from this policy. (OAA Revised May 29, 2008).