MATH 220 Calculus for Business and Management

Coordinator: Kathy McKenzie, mckenzie@math.binghamton.edu

Course objectives:

This course gives students a working knowledge of basic operations in calculus, including differentiation and integration of simple functions. By the end of the course the student should be able to use these techniques to graph functions and to understand and solve financial problems involving marginal phenomena, various types of optimization, discrete and continuous growth, elasticity, total and average value of a function, and present and future value of an account.

University "M" credit:

Successful completion of this course satisfies the BU "M" credit requirement. Students in "M" courses will demonstrate competence in an area such as calculus, symbolic logic, logic of computers, logic of deductive and inductive reasoning, or probability and statistical inference.

Prerequisites:

Students must pass the Placement Test to be enrolled in Math 220. Course success depends on precalculus competency (though trigonometry is not needed). Passing the Placement Test does not necessarily signify such competence. Students who struggle with this test should seriously consider taking Binghamton University's Pre-Calculus course, MATH 108.

Attendance:

Students are expected to attend all classes. Failure to attend regularly will impact the discretionary component of the grade (attendance, preparation, quizzes, participation). In case of illness or other necessary absences, student should notify instructor by email. According to Harpur College policy, a student can receive a grade of F in any course for which they miss 25% or more of its meetings. Instructors reserve the right to invoke this policy.

Academic honesty:

Academic dishonesty will be dealt with severely. A grade of "F" for the course is not unprecedented for a student who attempts to advance his/her grade illegally. Dishonesty includes but is not limited to: copying another's work or letting someone copy one's work, trying to use an electronic device during an exam, lying to or intentionally misleading an instructor, handing in modified work for additional points, or signing someone else's name to a document.

Calculators and other electronic devices:

Calculators will not be allowed during any quiz or test. They may be used for homework assignments. DESMOS online graphing calculator is helpful for checking graphs.

Electronic devices during quizzes and tests are not allowed. Using one is regarded as cheating and will result in F grade for that test.

Extra help:

Instructor's office hours, and/or Calculus Help Room in Whitney Hall (the schedule is available at Help Rooms and is updated about a week after classes begin each semester).

Course text:

REQUIRED: *Math 220 Course Notes Calculus for Business and Management* (Geoghegan & Brewster), is made available online to every registered student through their individual instructor's website.

Support services:

Binghamton University is committed to full and equitable access for all enrolled students. Students requesting accommodations based on a disability must register with Services for Students with Disabilities located in UU-119 (777-2686).

Exams:

Dates for the three to four in-class exams will be announced within the first week of the semester.

A comprehensive final is given at the end of the semester during final exam week.

No make-up exams are given, except in direst circumstances (serious student illness, verified by medical note; death in immediate family). Instructor must be notified as soon as possible if such a situation occurs.

Final exam: Covers most of the material in the course.

Grading: Based on 1000 total points possible. However, this scheme is subject to change.

A 900-1000 **A-** 850-899 **B+** 800-849 **B** 750-799 **B-** 700-749 **C+** 650-699 **C** 600-649 **C-** 550-599 **D** 500-549 **F** 0-499

Final exam = 300 points (30%)

In-class unit exams = 150 points each (60%)

Class performance = 100 points (10%), determined by quizzes, class preparedness and attendance (per instructor discretion)

Concerning your grade:

Instructors award points based on student work. Each student's point total corresponds to the above published letter grade at semester's end. Very little (if any) subjectivity is involved in the process. Students *earn* the requisite number of points to achieve the corresponding grade.

Students choosing the Pass/Fail (or P/F) grading option need 500 points to earn a grade of "P."