

**Mathematics 108, Calculus II for Business, Spring 2000**  
**Section 07, Prof. Matthew Dyer**  
**General Information**

**Text:** “Calculus for Business and Social Science” by Himonas and Howard. Available in bookstore (many of you will have copies from Math 105).

**Class:** MWF, 12:50–1:40, Cushing 136.

**Office Hours :** Friday 10:30-11:30 AM , and by appointment. Office in CCMB 201, Phone 631-6082, E-mail: [dyer.1@nd.edu](mailto:dyer.1@nd.edu)

**Objectives:** The main objective of Math 108 is to learn mathematical concepts, techniques and ideas that are useful in solving and understanding real life problems which arise in economics and business. Therefore most mathematical concepts are introduced through interesting business problems. Furthermore by using available computer technology, real life problems which may lead to non-trivial computations and graphics are considered. Familiarization of the students with current computer technology is another objective of Math 108. Numerical, symbolic and graphics programs are not only useful in solving math problems, they also suggest that in teaching and learning mathematics, more emphasis should be placed on understanding the concepts, the methods, and the modeling of real life problems into mathematics.

To accomplish these objectives it will require some effort from your part. It is very important that you **miss no class** at all, and **take good notes** on every lecture. Then **before the next lecture read your class notes, the book and do the homework** based on the material just covered. Try to **have your questions answered before the next class begins**. Talk to your teacher, your classmates and also use the First Year of Studies Learning Resource Center. Also read from the “Lecture Notes” the material to be covered in the next class and do some of the problems there. You are **STRONGLY** encouraged to **form small groups of study** with your classmates to discuss the material and also the homework problems.

**Exams:** There will be three Midterm Exams and a Final Exam. The dates for the Exams are:

- Exam 1      Thursday, February 10, 8:00-9:15 AM
- Exam 2      Tuesday, March 7, 8:00-9:15 AM
- Exam 3      Thursday, April 13, 8:00-9:15 AM
- Final Exam May 12, 1:45-3:45 PM

**Quizzes:** There will be a short quiz at the beginning of some of the classes.

**Homework:** It will be assigned most classdays and it will be due on dates specified by your teacher (generally the Wednesday after it is assigned). Late homework will not be accepted without a valid excuse (e.g. excused medical or athletic absence). At the end of

the semester the homework with the lowest score will be dropped. The main purpose of the homework is to help you learn the material. Experience shows that students who **take their homework seriously do very well in the Quizzes and Exams** because they have a better understanding of the material.

**Grading:** Your course grade will be based on a scale of 500 points computed in the following way:

- Exam 1      100 points
- Exam 2      100 points
- Exam 3      100 points
- Homework + Quizzes    50 points
- Final Exam   150 points
- **Total score** 500 points

**Note:** Students with more than 2 finals in one day, or more than 3 finals in a 24 hour period, may negotiate to change the time of one of these finals. If you intend to request to have your Math 108 final changed, you must talk to your teacher by April 17.

**Honor Code:** The exams are under the honor code. The honor code does not apply to homework. So you may discuss the homework with other classmates but **do NOT copy** each other. Again, collaboration in small groups is strongly encouraged in this course.

**Class Attendance:** A first-year student who accumulates more than 3 unexcused absences may be given an F.

**Help Sessions:** Tuesday and Thursday 7:00-8:30 pm, in Nieuwland 127, starting, Thursday, January 20.

**First Year Learning Resource Center:** In addition to your teacher, who is your main source of information and help for this course, you may obtain valuable assistance from the following three programs directed by Mrs. Erfan at the Learning Resource Center (LRC) in the First Year of Studies:

- **Tutoring Program:** Provides tutoring in small groups to all first-year students needing extra help for their classes. Stop by the LRC to sign up.
- **Mathematics Workshops:** Math. Workshops are help sessions which do **not** require regular attendance. The workshop for **Math 108 is on Sunday 6:15-8:15 PM.**
- **Collaborative Learning:** Students form small study groups (4-6) for discussing homework and other problems.

**Positive attitude:** Have a positive attitude towards Mathematics and become an active participant inside and outside the class. Mathematics is not a spectator sport. To learn you have to participate!