CALCULUS II - Integral Calculus
MATH 1022 – Sections 02 and 04
FALL 2004 – A Term

Professor  DR. SUZANNE L. WEEKES
Office  302 STRATTON HALL
Office Phone  (508)831-5267
Email  sweekes@wpi.edu
Office Hours  Mondays  2:30 – 4:00 pm
Thursdays  2:00 – 3:30 pm or by appointment
T.A.  Ms. NAFI DIALLO  204 STRATTON HALL

Web Page  http://www.wpi.edu/~sweekes/MA1022
Textbook  Calculus by Varberg, Purcell, and Rigdon 8th edition

Section 02  Lecture in SH 308  MTRF 8:00 – 8:50
Conference in SH 309  F 12:00 – 12:50
Lab in SH 306  W 12:00 – 12:50

Section 04  Lecture in SH 308  MTRF 10:00 – 10:50
Conference in SH 309  F 3:00 – 3:50
Lab in SH 306  W 3:00 – 3:50

Grading  QUIZZES  9% x 5
          HOMEWORK  25%
          FINAL EXAM  20%
          LAB ASSIGNMENTS  10%

COURSE OUTLINE

This course provides an introduction to integration and its applications. Topics covered include: Riemann sums, fundamental theorem of calculus, basic techniques of integration, volumes of revolution, arc length, inverse trigonometric functions, exponential and logarithmic functions, and applications. Recommended background: MA 1021.
CLASS ROUTINE

The class meets six times a week: four times in lecture, once in conference, and once in the computer laboratory. You are responsible for any and all material discussed in lecture, conference, and lab.

Homework
Homework is a required component of the course. Problems will be assigned for each section of the book covered, and will be given each day in lecture and subsequently posted on the class web page. It is necessary to do, at a minimum, the assigned problems so that you can learn and understand the mathematics. You should do additional problems for further practice.

Your homework will be collected at the beginning of each Tuesday’s class. Late homework will not be accepted. If you must miss Tuesday’s class, you should have your work turned in before class time in order for it to be graded.

Your work should be very legible and done neatly. If the work is not presentable, and is illegible, you will not receive credit for it. Please staple the sheets of your assignment together. Do not use paper torn out of spiral bound notebooks. In the upper right hand corner of your assignment you should write

- your name,
- class section number,
- the book section number and list of assigned problems

A problem will receive a score of 1 if done correctly, 1/2 if reasonably done but having some error, and 0 if not done at all or nothing accomplished. You need to show both your answer and the work leading to it. Merely having the right answer gets no credit - we can all look them up in the back of the book. Your homework grade is determined at the end of the course by the percentage of the graded problems assigned that you got correct.

Quizzes
Each Tuesday, there will be a 15–20 minute in-class quiz emphasizing the most recently covered topics. If you miss a quiz for any reason (illness, travel, etc.), you will receive a score of zero. However, don’t worry, the lowest quiz score will be dropped. Make-up quizzes will never be given.
Conferences
In the Monday conference sessions, you will meet with the Teaching Assistant (TA) for the class. You will be able to ask the TA on the material covered and homework. The TA may also give you in-class assignments and review course material.

Labs
Each week, students will meet in the computer lab (SH306) with the Instructor’s Assistant (IA). We will use the computer algebra system, Maple, as a visual and computational aid to help you explore the mathematical theory and ideas of the calculus. You will not be given credit for a lab report if you did not attend the lab. Wednesday 1st September will be your first lab meeting.

Final Exam/Basic Skills Test
On Wednesday 13th October from 7-9 pm, you will have a 2 hour comprehensive final examination.
Make arrangements now so that there are no conflicts with the final exam.

The Final Exam will consist of two parts. The first part will be a Basic Skills component. You cannot pass the course if you do not pass the basic skills component. If you do pass the Basic Skills component, then your course average will be calculated as given on page 1 and your grade assigned by the lecturer accordingly.

Students with failing averages in the course are given grades of NR, whether or not they passed the Basic Skills exam.

Students with passing averages who failed the Basic Skills exam are given grades of I (incomplete). They will be given the opportunity to re-take the Basic Skills exam at a later date; if they pass it, they will receive their respective grades based on their passing average.