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.
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
Written Homework: Problems will be assigned for each section of the book covered and will be 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 Monday’s class. Late homework will not be accepted. If you must miss Monday’s class, you should have your work turned in before class time in order for it to be graded. Do not wait until the weekend to start your homework. Work on the problems daily.

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, the class section number which is B08, and the list of book sections for the assignment.

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.

Online Homework: There will be homework using the online tool WebWork. This is the same software that you used for the Math Placement Exam that you took during the summer. Each week, there will be 10–15 questions on WebWork. Go to https://webwork.wpi.edu/webwork2/MA1022B09 Do not use the WebWork system to email for help on problems; such an email will be sent to all the professors and assistants for all the sections of MA1022! Instead, see the professor or the TA as soon as possible.
Quizzes
Each Monday, 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 Friday conference sessions, you will meet with the Teaching Assistant (TA) for the class. You will be able to ask the TA questions on the material covered and homework. The TA will also give you in-class assignments and review course material.

Labs
Each Thursday, students will meet in the computer lab (SH306) with the Instructor’s Assistant (IA) who is Jane Bouchard. 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. There are no make-up labs. The first lab will be on Thursday 4th November, 2009.

Final Exam/Basic Skills Test
On Wednesday 16th December 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 Assessment will consist of two parts. The first part is the Final Exam which is used in determining your course average score as given on page 1. The other part is the Basic Skills Exam. You cannot pass the course if you do not pass the Basic Skills Exam.

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

If you pass the Basic Skills component, then your course average will be used by the professor to determine your grade for the course.

If you fail the Basic Skills Exam, yet have what the instructor determines
to be a course average high enough to pass the course, you will be given a grade of I (incomplete). You will be given the opportunity to re-take the Basic Skills exam at a later date; if you pass it, you will receive the grade that is based on your course average.

**Academic Dishonesty**

Individual integrity is vital to the academic environment because education involves the search for and acquisition of knowledge and understanding, which are, in themselves, intangible. Evaluation of each student’s level of knowledge and understanding is an essential part of the teaching process, and requires tangible measures such as reports, examinations and homework.

*Any act that interferes with the process of evaluation by misrepresentation of the relation between the work being evaluated (or the resulting evaluation) and the student’s actual state of knowledge is an act of academic dishonesty.*

Each student is expected to familiarize him/herself with WPI’s Academic Honesty policies which can be found at [http://www.wpi.edu/Pubs/Policies/Honesty/](http://www.wpi.edu/Pubs/Policies/Honesty/)

All acts of fabrication, plagiarism, cheating, and facilitation will be prosecuted according to the university’s policy. If you are ever unsure as to whether your intended actions are considered academically honest or not, please ask Prof. Weekes first rather than take the risk!

**Students with Disabilities**

Students with disabilities who believe that they may need accommodations in this class are encouraged to contact the Disability Services Office (DSO), as soon as possible to ensure that such accommodations are implemented in a timely fashion. The DSO is located in Daniels Hall, (508) 831-5235.

If you are eligible for course adaptations or accommodations because of a disability (whether or not you choose to use these accommodations), or if you have medical information that I should know about please make an appointment with me immediately.