

Syllabus for MA 16100 IMPACT, Fall 2015

Description: Many students find that large lectures are not the best way for them to learn. IMPACT is a university-wide program at Purdue whose goal is to replace large lectures with something that works better. MA 16100 IMPACT is a version of Calculus I which emphasizes

- active learning, and
- extra time devoted to topics that many students have trouble with, such as word problems.

The class will meet on Tuesdays for a 75 minute session mainly devoted to group work, with some mini-lectures on useful topics. There will also be recitation sections twice a week. An important difference from traditional calculus is that the Tuesday sessions will not “cover” the material; instead, you will watch lectures which are included in the WebAssign assignments. The purpose of the Tuesday sessions is to give you an opportunity to spend extra time on the more difficult aspects of the course and to discuss your thinking with each other, and also with your TA’s and with the instructors.

Attendance Policy: Students will receive the grade of F for MA 16100 IMPACT for the following violations of the attendance policy (but they may transfer to the ordinary MA 16100 without penalty until October 28):

- Missing more than 1 Tuesday meeting after the first week without an approved documented excuse
- Being more than 5 minutes late for a third time to the Tuesday meeting without an approved documented excuse

Excuses must be approved by the course instructor, Professor Kaufmann.

You may not leave the IMPACT sessions before the end: Students who leave an IMPACT session before the end will lose all IMPACT points for that week. If there is a special situation such as a doctor’s appointment, you can get permission from the instructor to leave early.

Homework: There are 37 online assignments using WebAssign

<https://www.webassign.net/purdue/login.html>

Due dates and times are listed on the WebAssign “Course View.” Generally, homework from the Friday and Monday lectures are due Tuesday at 11:05^{pm} and homework from the Wednesday lecture is due Thursday at 11:05^{pm}.

Transfers: If you transfer sections your WebAssign account will transfer also. However, it is your responsibility to notify the TA of the new section so that he/she can request to have your past scores moved over.

IMPACT Activities: Each Tuesday, an activity sheet will be distributed to all students. This will be due at the beginning of the period the following Tuesday. Students will be responsible for presenting some of the problems from the activity sheet during the week that the sheet is due.

Quizzes: There will be a quiz in every recitation class, except during the 16th week (Dead Week) and the day of class exams. The quizzes will be on the material from lessons whose homework is due the previous recitation. The quiz problems will be similar to the homework problems.

An education study: The university is conducting an education study to measure the effectiveness of MA 16100. There are six course activities connected with this study. Quiz 1 is an algebra readiness quiz, to help you know whether you have the skills needed to learn calculus. You will get full credit for this quiz just for taking it. Quiz 1 will be given again as Quiz 24, and this time your score will be based on how you do. Quiz 2 covers some important concepts of calculus, and it will be repeated as Quiz 25. For Quizzes 2 and 25 you will not be graded on how you do, instead you will get 2 extra credit points in your final grade for participating. Finally, you will be sent two surveys by email, one at the beginning of the semester and one at the end, and you will get 2 extra credit points for each of them. If you decide not to participate in an extra credit activity you can still get the points for that activity by writing a one-page essay that your TA will assign.

Policy on Late Homework and Missed Quizzes: Late homework will not be accepted. No make-up quizzes will be given. At the end of the semester the 3 lowest homework scores and the 2 lowest quiz scores will be dropped. Students who are forced to miss class for an extended period of time should see their TA and contact the Office of the Dean of Students.

Midterm Examinations: There will be three (3), one-hour, multiple choice, midterm exams:

EXAM 1 – Tuesday, September 22 (6:30^{pm})
 EXAM 2 – Wednesday, October 21 (6:30^{pm})
 EXAM 3 – Thursday, November 12 (8:00^{pm})

Final Examination: There will be a two-hour, multiple choice final during final exam week. The time and place will be announced later.

Grades: Course grades will be determined from your total score which will be computed as follows:

IMPACT points	90 pts
Homework	100 pts
Quizzes	100 pts
3 midterms @100 each	300 pts
Comprehensive Final Exam	<u>200 pts</u>
TOTAL	790 pts

There are no pre-set letter grade cut-offs (these will be based on course-wide performance on the exams). But generally *about* 90 % (630 points) is needed for an A, while anything lower than 50 % (350 points) would be an F. (Please note that these are *estimates* based on limited historical data.)

Web Page for MA 16100 IMPACT : <http://www.math.purdue.edu/MA161I>
 Check this page often for important information and announcements. There is a calendar for the entire semester which is *different* from the calendar for the regular 16100 (but the homework due dates and exam dates are the same).

Office Hours: <http://www.math.purdue.edu/academic/officehours>
 You may attend any of these hours in the Math Help Room (MATH 205) to get help with the class (but they will not know about the IMPACT problems).

Calculators: Calculators are not allowed on exams or quizzes. It is important that you learn to do simple manipulations by hand.

Supplemental Instruction: There are Supplemental Instruction (SI) study sessions available for this course. These study groups are open to anyone enrolled in this course who would like to stay current with the course material and understand the material better. Attendance at these sessions is voluntary, but extremely beneficial for those who attend weekly. Times and locations for the study session can be found here: www.purdue.edu/si or the free app: www.purdue.edu/boilerguide Students who attend these interactive sessions will find themselves working with peers as they compare notes, demonstrate and discuss pertinent problems and concepts, and share study and test-taking strategies. Students are asked to arrive with their student ID card, lecture notes and questions to these informal, peer-led study sessions.

Accommodations for Students with Disabilities: If you have been certified by the Disability Resource Center (DRC) as eligible for academic adjustments on exams or quizzes, see <http://www.math.purdue.edu/ada> for exam and quiz procedures for your mathematics course, or go to MATH 242 for paper copies. In the event that you are waiting to be certified by the DRC we encourage you to review our procedures prior to being certified. For all in-class accommodations, please see your instructor outside class hours, before or after class or during office hours, to share your accommodation Memorandum for the current semester and discuss your accommodations as soon as possible.

Important Dates:

Last day to drop a course without it being recorded: Monday, **September 7** (5:00^{pm}).

Last day to drop a course: Wednesday, **October 28** (5:00^{pm}).

Academic Dishonesty: Purdue prohibits academic dishonesty. According to University policy cheating, plagiarism, lying, and deceit in any of their diverse forms (such as the use of substitutes for taking examinations, the use of illegal cribs, plagiarism, and copying during examinations) is dishonest and must not be tolerated. Moreover, knowingly to aid, abet, directly or indirectly, other parties in committing dishonest acts is in itself dishonest. If found guilty of academic dishonesty, possible penalties range from receiving a failing grade to expulsion from the University. For more details about the Purdue Policy on academic dishonesty see <http://www.purdue.edu/odos/osrr/academicintegritybrochure.php>

The following Exam Rules will be printed on each midterm and on the final exam:

- (1) Students may not open the exam until instructed to do so.
- (2) Students must obey the orders and requests by all proctors, TAs, and lecturers.
- (3) No student may leave in the first 20 min or in the last 10 min of the exam.
- (4) Books, notes, calculators, or any electronic devices are not allowed on the exam, and they should not even be in sight in the exam room. Students may not look at anybody else's test, and may not communicate with anybody else except, if they have a question, with their TA or lecturer.
- (5) After time is called, the students have to put down all writing instruments and remain in their seats, while the TAs will collect the scantrons and the exams.
- (6) Any violation of these rules and any act of academic dishonesty may result in severe penalties. Additionally, all violators will be reported to the Office of the Dean of Students.

I have read and understand the exam rules stated above:

STUDENT NAME: _____

STUDENT SIGNATURE: _____

Other Issues:

In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar. To get information about changes in this course please check frequently the course web page: <http://www.math.purdue.edu/MA161>