TIME AND PLACE:
Lectures: **TIME**: Tuesday and Thursday from 6:00 PM to 7:50 PM; **PLACE**: IT 274.

HOW TO CONTACT ME:
Office: LD 224 T, 402 N. Blackford St.
Phone: (317) 278-7460
E-mail: akuznetsov@math.iupui.edu (please, use your university computer account to e-mail me)
Web Page: http://www.math.iupui.edu/~alexey/166/Fall12
Office Hours: Tuesday and Thursday from 4:45 PM to 5:45 PM.
You are encouraged to write/come with any questions you may have.

COURSE PREREQUISITES:
A student registering for this class must satisfy the following conditions:
- Completed MATH 16500 or equivalent with minimum grade C- within past two academic years or direct COMPASS placement.

WITHDRAWAL DATES:
August 27 - last day to withdraw, course deleted from records, no grade assigned (Adviser signature IS NOT required).
October 12 - last day to withdraw with automatic grade of W (Advisor signature IS required).
November 13 - last day to withdraw with grade of W or F (Advisor and instructor signatures ARE required).
The Associate Dean for Academic Program will not endorse a withdrawal after this date unless a serious and documentary excuse is established

TEXT:
The class includes the following topics
- Inverse functions
- Differentiation of exponential, logarithmic and inverse trigonometric functions
- Techniques of integration
- Application of integration: length and area
- Parametric equations and derivatives
- Infinite sequence and series

We will cover Chapters 6, 7, 8, 10 and 11 of the textbook. We may skip some sections or cover them in a different order than in the textbook.

DEPARTMENTAL INFORMATION:
This class has a departmental final exam, and a few variants of the practice for the final are available online - see the departmental web page. It also contains department-wide syllabus for the class.

STRUCTURE OF THE COURSE:
LECTURES: Attendance is required. In each class, I will go over the key concepts that you need to understand with an emphasis on examples and problems similar to those that you will be expected to do. Most students find trying to learn a material by themselves much more difficult and time consuming. The lectures will be interactive, so, if you do not understand something, you are encouraged to ask.
HOMEWORK: In each lecture, I will give a homework assignment. After each class, it is strongly recommended that you do the assigned problems. First, try to solve each problem on your own. If you have difficulty solving a problem, refer back to some of the examples that I did in class. If you still have difficulty, then you should seek help as soon as possible from the WAYS TO GET HELP, listed below. Homework assignments will not be collected, however, quiz and exam problems will be similar to the homework problems.
QUizzes and Exams: There will be a quiz or an exam every week. The quizzes are going to be at the beginning of each Tuesday lecture (except for the first week, when the quiz is on Thursday) and take 15-20 minutes. The quiz problems will be similar to the in-class and homework problems assigned in the last two lectures. Doing the homework problems will be the best way to do well on the quizzes. Exam assignments are devised to test your understanding of the material rather than just the ability to do problems exactly similar to those you have been previously asked. The best way to prepare for exams is to make sure that you have understood the conceptual ideas behind the problems, rather than just memorizing how to do them.

- Ways to Get Help:
  - Work with other students from the class on solving problems.
  - Come to my office during office hours (or make an appointment).
  - Ask for help at Mathematics Assistance Center at IUPUI
    Web: [http://www.math.iupui.edu/mac/](http://www.math.iupui.edu/mac/)
    Phone: (317) 274-7898
    Email: help@math.iupui.edu
    Address: University College Building, UC 102; 815 West Michigan Street; Indianapolis, IN 46202

- Examinations:
  There will be two midterm in-class exams during regular lecture times. The tentative date for the first midterm is October 9th. The tentative date of the second exam is November 29. These dates may change, and, if this occurs, I will announce the new dates as soon as possible. Attendance is required at all exams. This course also has a required common departmental Final Exam, which is scheduled for Saturday, December 8th from 3:30 PM to 5:30 PM. To receive credit for this course, you must take the final exam on the assigned date, at the assigned time, and in the assigned room. Plan your schedule accordingly.

- Quiz and Exam Policy
  The quizzes and exams are closed books and no "help" sheets will be allowed. Graphing calculators will not be permitted during quizzes and exams. No cell phones are allowed out during quizzes and exams. Any student caught with their phone or graphing calculator out will receive an automatic "0" on that quiz or exam. Remember that both your answer and reasoning must be correct. Show all of your work to receive maximum credit. You may receive partial credit even if you haven't completed an assignment. By contrast, even if you have a correct answer, you don't receive full credit if you don't show how you get it. Please write your solution in well-organized manner and indicate a final answer clearly. Extra time to finish a quiz or exam will not be given for those arriving late. If you miss an exam or quiz you will receive a zero for that exam or quiz. No make-up quizzes and exams will be given. Exceptions of this are possible only in circumstances of serious medical problems or family emergencies. In these circumstances the problem must be completely documentable and I must be informed of it as quickly as possible. If I authorize a make-up exam or quiz, it will be both different from and more difficult than the original exam or quiz since it would be presumed that you had the benefit of seeing the original exam or quiz and having additional time to study for it.

- Grades:
  The following scores will contribute to your final grade: quiz average (20%), two midterm exams (25% each), and the final exam (30%). The grading scale is: A > 90 > B > 80 > C > 65 > D > 50 > F