

Notice Concerning the IBL Analysis Sequence
MATH 20300-20400-20500, Section 30
2011-2012 Academic Year

During 2011-2012, an IBL (inquiry-based learning) sequence of Math 20300-20400-20500 will again be made available to one section of selected second-year students. The designated section of Math 20300 is Section 30, which is scheduled for 10:30 TTh in the Autumn Quarter 2011 and the corresponding sections (still numbered 30) of Math 20400 and 20500 in the Winter and Spring of 2012 will meet at the same time.

The IBL sequence of Math 20300-20400-20500 will deal with the standard topics of Real Analysis, including metric spaces, differentiation of functions of several real variables, Riemann integration, differential forms, and more. The manner of presentation is what changes radically in an IBL section, however, as the instructor does no lecturing. Instead, students prepare and present all of the course material based on “scripts” of definitions and theorems which have been provided beforehand.

The program is not designed exclusively for majors in Mathematics; in fact, it is expected to be of special value to any eligible student without regard to his or her field of interest. The main requirements are that students have the desire to engage fully with the material, the ability to sustain an investigation into difficult topics, and a fearless attitude toward presenting ideas and having them criticized. It is not required that students have taken an IBL section of the Math 160's sequence.

The IBL sequence of Math 20300-20400-20500 is intended for serious students with an interest in analysis and a desire to approach their training in mathematics in this intense and non-standard manner. To be eligible for this special program, a student must:

- earn a B or better in each of Math 16100-16200-16300 during 2010-11 (possibly including one or two grades of B-); or a grade of A- or better in Math 19900; and
- have a strong recommendation from his or her Math 16300 or 19900 instructor.

Any student who thinks he or she will be eligible for IBL Math 20300-20400-20500 by September 2011 and who wishes to be considered for admission should submit an application form to Stephanie Walthes in Eckhart 211 while undertaking his or her advanced registration for Autumn 2011. We will e-mail all applicants of their admission status in Summer 2011.

Students seeking additional information about IBL Math 20300-20400-20500 should consult John Boller in Ry 354, Diane Herrmann in Eckhart 212 or Paul Sally in Ryerson 351. The **one page** application is due no later than Friday, June 3. Please return applications to E 211.

APPLICATION FOR ADMISSION TO THE IBL SEQUENCE
MATH 20300-20400-20500 (Section 30)

Your name (print clearly): _____

Your e-mail address: _____

Your student ID Number: _____

Give the course, instructor, and final grade in the appropriate blanks following
(if you are still taking the course, give just the instructor's name):

Math 16100 Instructor: _____ Grade: _____

Math 16200 Instructor: _____ Grade: _____

Math 16300 Instructor: _____ Grade: _____

Math 19900 Instructor: _____ Grade: _____

Who is your College Adviser? _____

What is likely to be your major field of study? _____

What courses besides mathematics courses do you expect to take in Autumn 2011?

Note: Applicants should select Math 20300, Section 30, as their analysis course for Autumn 2011 during pre-registration. Applicants admitted to the IBL sequence in Autumn 2011 will receive an e-mail in summer admitting them to the sequence and John Boller or Diane Herrmann will add these admitted students to Math 20300 (30). Others will be dropped from Section 30 and added to one of the other sections of Math 20300; students will be asked to select a particular section of Math 20300 in an e-mail in August.

Signature: _____

Date: _____

Return this sheet to Stephanie Walthes in E211 by Friday, June 3.