Student-Faculty Colloquium:
Mathematical Logic (1 credit hour)

Spring Semester 2014

Course MATH 497 Section 1, Tuesday 1:00–1:50pm, Architecture Building (AB) 015

Instructor Dr. Hanspeter Fischer

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Office Hours Mon 10:00–10:50am, Tue 9:00–9:50am, Wed 10:00–10:50am,
Thu 9:00–9:50am, Fri 10:00–10:50am, and by appointment.

Prerequisites MATH 267 or permission of the department chairperson.

Text "Introduction to Mathematical Logic" (5th Edition) by Elliott Mendelson,
Chapman and Hall/CRC Press, 2009.

Contents Topics include propositional calculus, first-order logic, model theory, formal
number theory, axiomatic set theory, and computability. One particular goal
of this colloquium is to explore Gödel's Incompleteness Theorem.

Format Students will be paired with faculty members to develop and present course
modules on the above topics. Each student will give at least one presentation.

Evaluation The course grade is based on the quality of the presentation(s), contribution
to class discussion, and regular attendance.