# Math 3094 - Fall 2016
# *p-adic Numbers*

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| **Instructor** | **Keith Conrad** |
| **Email** | kconrad at math dot uconn dot edu. |
| **Office hours** | 11:00-12:00 M, 2:30-3:30 W, or by appointment in MONT 234. |
| **Course info** | **Lecture** M 3:35-4:50 and F 2:35-3:50 in MONT 111. |
| **Texts** | *p-adic Analysis Compared with Real* by Svetlana Katok.<br><br>Other texts on *p*-adic analysis are by Gouvea (2013), Koblitz (1996), and Robert, but are not required. |

**Brief course description:** This course is an introduction to *p*-adic numbers and *p*-adic analysis.

**Prerequisites:** Math 3230 or 3240, or 2142 or 3150, or permission of instructor.

**Course grade:** This will be based on homeworks and a take-home final.

**Homework:** Homework assignments will be posted on the bottom of this web page.

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| Due Week of | Homework Assignment |
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| **1.** Aug. 29 | |
| **2.** Sept. 5 | |
| **3.** Sept. 12 | Set 1. |
| **4.** Sept. 19 | |
| **5.** Sept. 26 | Set 2. |
| **6.** Oct. 3 | |
| **7.** Oct. 10 | Set 3. |
| **8.** Oct. 17 | |
| **9.** Oct. 24 | Set 4. |
| **10.** Oct. 31 | |
| **11.** Nov. 7 | |
| **12.** Nov. 14 | Set 5. |

**13.** Nov. 21 None (it's Thanksgiving).

**14.** Nov. 28

**15.** Dec. 5

**16.** Dec. 12 Problem Set in Lieu of Final. **Do NOT discuss the problems with anyone except the instructor.**