**Department of Mathematics & Statistics**
**Concordia University**

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**MATH 364**
Analysis I
*Winter 2016*

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**Course Instructor:**   Dr. C. David, Office: LB 927-9 (SGW), Phone: 848-2424, Ext. 3227
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**Textbook:**   *Notes on Real Analysis* by L. Larson.
Available online:
http://www.math.louisville.edu/~lee/RealAnalysis/IntroRealAnal.pdf

**Assignments:**   Given weekly on the webpage
http://www.mathstat.concordia.ca/faculty/cdavid/courses.html

Solutions to be submitted the following week in class. No late assignments will be accepted. *You should provide complete arguments in your homework.* Solutions to assigned problems will be posted on the same webpage. Other course related materials will also be posted there.

**Class Test:**   There will be a class test scheduled in the 7th or 8th week of classes.

**Grading:**   10% Assignments, 30% Class Test, 60% Final Exam **or** 100% Final Exam.

| Weeks | Topics | Chapters |
|-------|--------|----------|
| 1-3 | Elements of Proofs and Set Theory. The Real Numbers. | Chapters 1-2 |
| 4-6 | Sequences | Chapter 3 |
| 7-9 | Limits of Functions and Continuity. | Chapter 6 |
| 10-11 | Derivatives | Chapter 7 |
| 12 | Elements of topology | Chapter 5 |
| 13 | **REVIEW** | |