
University of Lethbridge
Department of Mathematics and Computer Science

Computer Science 2610 • Theoretical Foundations of Computing
Course Outline • Spring 2012

TIME OF LECTURES: MWF 11:00 – 11:50 **ROOM:** AH116

INSTRUCTOR: S.K. Wismath **OFFICE:** C548

TEXT: *Theory of Computation*
by Godard

GRADING SCHEME: Assignments 15%
Midterm Exam 30%
Final Exam 55%

GRADE DISTRIBUTION: The cutoffs in this course the last time I taught this course were as follows. This information is provided as a guideline only and may be revised in this offering.

A	80 – 100
B	70 – 80
C	60 – 70
D	50 – 60

TOPICS:

- Finite Automata and regular expressions
- Non-determinism
- Turing Machines
- Push Down Automata and Linear Bounded Automata
- Languages: Chomsky Hierarchy
- parsing, decidability
- Introduction to computational complexity

COMMENTS:

There is no programming involved in this course, however a level of mathematical maturity is expected.

Exams must be written at the scheduled time; no provision is made for make-up exams, except for medical reasons.

Out-of-class help is available from your Professor.

Plagiarism can lead to severe penalties – consult the calendar.