Physics 742: The Standard Model
Course Syllabus

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Course Lectures: Mon/Wed/Thurs 10:00 – 11:30 (But Not Every Week!!!)
Rutherford Physics 326

Book: Burgess and Moore, "The Standard Model: a Primer"
Course webpage: http://www.physics.mcgill.ca/∼guymoore/ph742

Course Grade: 100% Homework. All homeworks will be posted on the course website.

Intended Syllabus: We will cover the Standard Model of Particle Physics. To be more specific, we will cover

- Building blocks: basic principles, possible fields, allowed interactions
- Lagrangian, spectrum, and interactions of the Standard Model
- Decays of weak bosons
- Decays of leptons
- Feynman Rules of the Standard Model
- Scattering processes
- Loop corrections, hadronic bound states, neutrino phenomenology, as time permits

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