COURSE DESCRIPTION:
Project based course on agent based modeling

COURSE OBJECTIVE:
Develop and discuss agent based models, with emphasis on real data inclusion and model validation and verification.

PRE-REQUISITES:
Programming skills

CONTACT HOURS:
3/2 weeks spanning both terms

COURSE CONTENT:
Develop and discuss agent based models.

HOMEWORK:
Develop a framework for a common ABM during the first month. Develop one's own ABM for the remainder of the course. 3-5 class presentations and participation during guest lectures. Ideally development of each student's ABM should contrast related thesis oriented work.

TEXTBOOK:
None. Several papers posted as required reading/studying.

EVALUATION:
Your final course grade is determined by your performance in assignments, and project. Ideally the student project will target a publication like report, whether actually published or submitted is not material.
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<th>COMPONENT</th>
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<th>VALUE %</th>
<th>TOTAL VALUE</th>
<th>DETAILS / ADDITIONAL INFO</th>
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<td>Seminars</td>
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<td>Given by others doing ABM related research</td>
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<td>Homework/Assignments</td>
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**INSTRUCTOR INFO:**

Name: Bob McLeod  
Office: E3 416 (Lab)  
Tel: 474 7360  
Email: mcleod@ee.umanitoba.ca

**Office Hours:** Any time.

**VOLUNTARY WITHDRAW:**  
**Nov. 12, 2013**

**REQUIREMENTS/REGULATIONS**

- **Student Responsibilities:** It is the responsibility of each student to contact the instructor if he/she is uncertain about his/her standing in the course and about his or her potential for receiving a failing grade. Students should also familiarize themselves with Sections 4 and 6 of the Regulations dealing with incomplete term work, deferred examinations, and attendance and withdrawal.
  - Lectures: Attendance at lectures is essential for successful completion of this course. Students must satisfy each evaluation component in the course.

**ACADEMIC INTEGRITY:**

Students are expected to conduct themselves in accordance with the highest ethical standards of the Profession of Engineering and evince academic integrity in all their pursuits and activities at the university. As such, in accordance with the General Academic Regulations and Requirements of the University of Manitoba, Section 7.1, students are reminded that plagiarism* or any other form of cheating is subject to serious academic penalty (e.g. suspension or expulsion from the faculty or university) regardless of media:

- examinations
- assignments
- laboratory reports
- term exams

A student found guilty of contributing to cheating in examinations or term assignments is also subject to serious academic penalty.

*Plagiarism:* to steal and pass off (the ideas or words of another) as one's own; use (another's production) without crediting the source

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Plagiarism: