

## **Syllabus**

Economics 302  
Macroeconomic Theory II  
Fall 2014

**Instructor:** Matthew Doyle  
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**Office Hours:** Tuesday, Thursday: 2:30-4pm

### **Meetings:**

This class meets on Tuesday and Thursday from 1-2:20 in MC 2054.

### **Overview:**

In this we will study macroeconomic theory at the advanced undergraduate level. We will examine the microfoundations of macroeconomic theory, with particular attention paid to notions of constrained optimization and equilibrium.

### **Textbook:**

The textbook for the class is: Williamson, S. (2013) Macroeconomics

I will place a copy of the book on course reserve at the library.

### **Mathematical Requirements:**

This course makes extensive use of mathematics. You are expected to have mastered linear algebra and basic calculus, including optimization, at the level taught in Econ 211. A good reference textbook is “Mathematics for Economists” by Carl Simon and Lawrence Blume.

Useful topics include:

One-Variable Calculus (S&B Chps. 2-4)  
Exponents and Logarithms (S&B Chp. 5)  
Linear Algebra (S&B Chp. 6-7)  
Calculus of Several Variables (S&B Chp. 14)  
Implicit Functions and their Derivatives (S&B Chp. 15)  
Optimization (unconstrained and constrained) (S&B Chps. 16-19)

**Evaluation:**

There will be a midterm exam worth 35% of the final grade, as well as a final exam worth 50% of the final grade. The midterm will take place in the regular classroom during class time on Thursday, October 23rd. The final exam will take place during exam week at a time and place chosen by the Registrar's Office.

In addition there will be 5 assignments. Each assignment will be worth 3% of the final grade. Due dates for the assignments are: Sept. 16th, Sept. 30th, Oct. 14th, Nov. 11th, and Nov. 25th.

**Policy on Missed Assignments and Tests:**

No make-up tests will be provided. A student who does not have a relevant medical certificate will receive a mark of zero on a missed test and her/his final grade will be computed in accordance with the formula specified above. For students who do have a relevant medical certificate, or medical certificates, the weight from the missed midterm will be applied to the final exam.

Late assignments will not be accepted. If a medical accommodation is warranted, the weight from a missed assignment will be applied to the final exam. Note that being sick on the due date of the assignment is not sufficient to warrant accommodation.

**Outline of Topics:**

1. Consumer optimization (Chp. 4)
2. Firm optimization (Chp. 4)
3. General equilibrium with production in one period (Chp. 5)
4. Consumption-Saving (Chp. 9)
5. Dynamic general equilibrium (Chp. 11)
6. Macroeconomics with frictions (Chps. 6 & 11)

## **Economics Department Deferred Final Exam Policy**

Deferred Final Exam Policy found at <https://uwaterloo.ca/economics/current-undergraduates/policies-and-resources/deferred-final-exam-policy>.

### **Cross-listed course**

Please note that a cross-listed course will count in all respective averages no matter under which rubric it has been taken. For example, a PHIL/PSCI cross-list will count in a Philosophy major average, even if the course was taken under the Political Science rubric.

### **Academic Integrity**

**Academic Integrity:** In order to maintain a culture of academic integrity, members of the University of Waterloo are expected to promote honesty, trust, fairness, respect and responsibility. See the [UWaterloo Academic Integrity Webpage \(https://uwaterloo.ca/academic-integrity/\)](https://uwaterloo.ca/academic-integrity/) and the [Arts Academic Integrity Office Webpage \(http://arts.uwaterloo.ca/current-undergraduates/academic-responsibility\)](http://arts.uwaterloo.ca/current-undergraduates/academic-responsibility) for more information.

**Discipline:** A student is expected to know what constitutes academic integrity, to avoid committing academic offenses, and to take responsibility for his/her actions. A student who is unsure whether an action constitutes an offense, or who needs help in learning how to avoid offenses (e.g., plagiarism, cheating) or about “rules” for group work/collaboration should seek guidance from the course professor, academic advisor, or the Undergraduate Associate Dean. When misconduct has been found to have occurred, **including writing exams in a section that you are not registered in**, disciplinary penalties will be imposed under [Policy 71 – Student Discipline](#). For information on categories of offenses and types of penalties, students should refer to [Policy 71 - Student Discipline](#). For typical penalties check Guidelines for the Assessment of Penalties found at <http://www.adm.uwaterloo.ca/infosec/guidelines/penaltyguidelines.htm>.

**Grievance:** A student who believes that a decision affecting some aspect of his/her university life has been unfair or unreasonable may have grounds for initiating a grievance. Read [Policy 70 - Student Petitions and Grievances, Section 4](#). In addition, read [the Student Grievance Process](#) for the Faculty of Arts found at <https://uwaterloo.ca/arts/current-undergraduates/student-support/student-grievances-faculty-arts-processes>.

**Appeals:** A student may appeal the finding and/or penalty in a decision made under Policy 70 - Student Petitions and Grievances (other than regarding a petition) or Policy 71 - Student Discipline if a ground for an appeal can be established. Read [Policy 72 - Student Appeals](#).

### **Other sources of information for students**

[Academic integrity \(Arts\) Academic Integrity Office \(uWaterloo\)](#)

### **Accommodation for Students with Disabilities**

**Note for students with disabilities:** The [AccessAbility Services office](#), located in Needles Hall Room 1132, collaborates with all academic departments to arrange appropriate accommodations for students with disabilities without compromising the academic integrity of the curriculum. If you require academic accommodations to lessen the impact of your disability, please register with the AS office at the beginning of each academic term.