

UNIVERSITY OF MONTANA  
**Economics 301: Intermediate Microeconomics with Calculus**  
Section 1

Douglas Dalenberg	Spring 2012
Office: LA 413 243-4406	TR 9:40-11:00
Office hours: TR 11:10-12:00, R 2:10-3:10 or by appointment or discovery	Classroom: LA 205
Email: doug.dalenberg@mso.umt.edu	3 Credits CRN: 31999

**Prerequisites:** ECNS 201S: Principles of Microeconomics and Calculus (M 162 or M171).

**Text:** Pindyck, Robert S. and Daniel L. Rubinfeld, *Microeconomics*, Upper Saddle River, New Jersey: Prentice Hall, 6<sup>th</sup> edition, 2005.

**Course Supplement:** Aplia. We will use this on-line tool for homework. The material at the end of this document explains how to sign up with Aplia. Cost: \$40.

**Description:** This course is designed to give you an opportunity to expand your understanding of microeconomic theory. We will review, refine and expand upon the methods of analysis you learned in Principles of Microeconomics. Therefore, the focus of this class is economic models and theory. The course is roughly divided into three sections: the derivation of demand, the derivation of supply and using supply and demand.

**Learning Outcomes:**

Students who successfully complete ECNS 301 will be able to:

1. demonstrate a solid foundation in calculus-based microeconomics, including consumer theory, firm behavior, competitive markets, monopoly, imperfect competition, and extensions of the basic theory to additional topics such as game theory, externalities, and public goods.
2. apply mathematical tools (e.g., partial derivatives) they have learned in calculus courses to a variety of problems.
3. use mathematics and graphs, in conjunction with good writing, to explain economic phenomena.
4. use calculus-based microeconomics to reason their way through abstract problems and real policy issues, and to explain how abstract problems can provide insight into the real world.
5. demonstrate the preparation necessary to do well in field courses that have calculus-based microeconomics as a prerequisite.

**Assessment:**

Assignment	Percent	Date
Aplia Homework (13 assignments)	15%	Generally one per week
Quizzes (Approximately 13)	70%	Generally one per week
Final Exam	15%	Tuesday, May 8, 8:00-10:00

I use standard percentages for grades: 90% of the points earns an A, 80% earns a B, 70% earns a C, 60% earns a D and below 60% fails. I will throw out your lowest homework score and your lowest quiz score. I do not use +/- grading.

**Policies:**

1. If you miss a quiz or homework and you have a legitimate excuse and you contact me prior to or immediately after the quiz or homework, then we will make arrangements for dealing with the missing score. If I am not contacted promptly or you don't have a legitimate excuse, then no makeup is possible.
2. If my office hours conflict with your schedule, see me for an appointment or try to catch me in my office by chance.
3. Whenever possible, and in accordance with civil rights laws, the University of Montana will attempt to provide reasonable modifications to students with disabilities who request and require them. Please feel free to setup a time with me to discuss any modifications that may be necessary for this course. For more information, visit the Disability Services for Students website at <http://life.umt.edu/dss>.
4. Academic dishonesty will result in a score of zero for the assignment or exam in question. All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University. All students need to be familiar with the Student Conduct Code. The Code is available for review online at: [http://life.umt.edu/vpsa/student\\_conduct.php](http://life.umt.edu/vpsa/student_conduct.php).
5. The last day to add or drop classes or change the grade option on Cyberbear is February 10. From February 13 to March 26 classes may be added or dropped or grade options changed (expect Audit) with an approved Add/Drop form. From March 27 through May 4 students must petition to add, drop or change grade options. No petitions are allowed after May 4. To petition to drop a course you will need your Dean's signature in addition to your advisor's and instructor's signature. My understanding is that the Dean of the College of Arts and Sciences accepts only four reasons for a drop (medical, change in work, emergency, no evaluation) and requires written verification.
6. The last day to change to audit status is February 10.
7. University policy states "For undergraduates, a CR grade (credit) will be equivalent to a D- or better and an NCR grade (no credit) will be equivalent to an F."
8. Students governed by the 2005-2006 catalog or later catalogs must earn a grade of C- or better in order for the course to satisfy the requirements of a major or the General Education requirement.
9. As a courtesy to your classmates, please set your cell phones on vibrate rather than ring and please leave the classroom to talk on a phone. You may text during class if it does not disturb those sitting near you and it does not disturb me. Absolutely no texting or cell phone use during quizzes or exams. If you believe that you will need to leave during class, please sit where you will not bother others as you leave. A classroom is a community, so please act as a mature and responsible citizen and treat each other with respect and courtesy. Please do not interfere with the learning of your classmates. I will ask you to leave if you are interfering with others learning and it is very embarrassing.

**Topics:**

This schedule of topics is subject to modification. All changes will be announced in class.

Week 1: Introduction and Math

P&R chapter 1

Week 2: Review of Supply and Demand

P&R chapter 2, *Aplia Homework 1 due, Quiz 1.*

Week 3: Elasticity

P&R chapter 2, *Aplia Homework 2 due, Quiz 2.*

Week 4: Building Demand

P&R 3.1-3.3, 3.5, 4.1 and Appendix to ch. 4, *Aplia Homework 3 due, Quiz 3.*

Week 5: Using Demand

P&R 4.2, 4.3, 4.4, and compensated demand, *Aplia Homework 4 due, Quiz 4.*

Week 6: Elasticity, Consumer Surplus and Market Demand

*Aplia Homework 5 due, Quiz 5.*

Week 7: Technology, Production and Costs

P&R ch 6, *Aplia Homework 6 due, Quiz 6.*

Week 8: Building Supply

P&R 7.1-7.4 and Appendix to chapter 7, *Aplia Homework 7 due, Quiz 7.*

Week 9: Competitive Markets

P&R 8.1-8.8, *Aplia Homework 8 due, Quiz 8.*

Week 10: Perfect Competition, Taxes and Welfare Economics

P&R 9.1-9.3, 9.6, *Aplia Homework 9 due, Quiz 9.*

Week 11: Spring Break

Week 12: Monopoly

P&R 10.1-10.4, *Aplia Homework 10 due, Quiz 10.*

Week 13: Imperfect Competition

P&R chapter 12, 13.1-13.3, *Aplia Homework 11 due, Quiz 11.*

Week 14: Factor Markets

P&R chapter 14, *Aplia Homework 12 due, Quiz 12.*

Week 15: Externalities and Public Goods

P&R 18.1-18.6, *Aplia Homework 13 due, Quiz 13.*

Week 16: Final Exam week

FINAL EXAM Tuesday, May 8, 8:00-10:00

# How to access your Aplia course

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## ECNS 301 Intermediate Micro with Calculus

**Instructor:** Doug Dalenberg

**Start Date:** 01/23/2012

**Course Key:** H6DK-PST9-EJJQ

### Registration

1. Connect to <http://www.aplia.com/>
2. **If you already have an account, sign in.** Go to your My Courses page, and click the *Enroll in a New Course* button.  
**If you don't have an account,** click the *Create a New Account* button, and choose *Student Account*.
3. Enter your Course Key when prompted: **H6DK-PST9-EJJQ**. Continue to follow the on-screen instructions to access your course.

### Payment

**Online:** Purchase access to your course from the Aplia website.

If you choose to pay later, you can use Aplia without paying until 11:59 PM on 02/12/2012.