Prerequisites
As stated in the 2020–21 Undergraduate Calendar, the prerequisites for this course are “ECON 1001 or ECON 1000 or FYSM 1003 with a grade of C- or higher; ECON 1401 (or equivalent) with a grade of C- or higher; and ECON 1402 (or equivalent), which may be taken concurrently with ECON 2020.” Please note that all of these prerequisites must be satisfied in order to remain registered in the course. Students who believe they have taken a similar background course or courses from another university must provide appropriate documentation to the Department of Economics Undergraduate Administrator, Renée Lortie.

Qualification requirements for higher-level courses: A grade of C- or higher is required to qualify for ECON 2030; a grade of C+ or higher is required to qualify for ECON 4020. DEF(ferred final grade) status at the end of this course precludes (continued) registration in any other course for which the former is a prerequisite.

Preclusions
As stated in the 2020–21 Undergraduate Calendar, this course “[p]recludes additional credit for ECON 2001, ECON 2002 (no longer offered), ECON 2003 (no longer offered), and ECON 2009.

Objectives
The aim of this course is to provide an analytical treatment of the theory of the firm: elements of production and cost; input allocation, pricing, and firm behaviour under perfectly and imperfectly competitive market structures; the role of information; game theory and public policy, including basic competition policy. Elementary mathematical tools (including calculus) will be employed in the exposition of these topics.

Tutorials
The tutorials will be held during the first of the weekly “Lecture” sessions for the course scheduled by the University—i.e., Mondays, 14:35–15:55. They will begin on January 11 with a presentation of the course preliminaries by the instructor. All subsequent tutorials will be led by a teaching assistant assigned by the Department. The main purpose of these tutorials is to give students guidance in working through particular problems and applications of intermediate microeconomic theory covered in the lectures and in the textbook. The teaching assistant may also spend some time answering students’ questions about course materials.

1 A video lecture of approximately 2½ hours (or 160 minutes) in length will be pre-recorded and released to the course on cuLearn two days in advance of the end of each formally scheduled “Tutorial” period—i.e., Mondays at about 17:25.

2 Office hours will be conducted using BigBlueButton (BBB) via cuLearn as an open question-and-answer session followed by the opportunity to ask questions individually using “break-out” rooms. Individual or group appointments may be set up for other times by e-mail and will also be realized using BBB via cuLearn.
**Evaluation**

Each student’s grade in the course will be calculated as a weighted average of scores on twelve, formative (MyLab Economics) assessments (two in the first week and one per the second through ninth weeks at 2% each plus one per the last two weeks at 5% each for a total of 30%), a mid-term examination (22%), and an in-class final examination (48%).

Students will be expected come to each lecture having read carefully the relevant parts of the required text as stated in the “Course Schedule and Reading List” below and/or communicated in advance via cuLearn. Perloff (2020) Chapters 6, 7, and 8 (Module I), 11, 12, and parts of 13 and 14 (Module II), and the remainder of 14, all of 15, and the remainder of 13 (Module III) will be covered in the order indicated over the first through ninth and last two lectures of the (twelve-lecture) term.

Formative assessments of student learning will be based on questions delivered using MyLab Economics. In general, these questions will be assigned each week in two equally weighted parts: one part will be a quiz comprised of four to seven “pools” of one or more multiple-choice questions; the other part will be “homework” comprised of twenty-five to forty-five varyingly extensive, straightforward to challenging, mostly non-multiple-choice questions. Students will be expected to attempt to work out solutions on their own to as many as possible of these questions and will be awarded marks on the basis of the fraction they get right, with an increasing marginal bonus for up to about one quarter correct and a decreasing marginal bonus for higher fractions correct. Please be aware in any event that plagiarism is serious offence at Carleton and should be recognized and avoided.

**Satisfactory Performance Criteria:** Students must achieve a passing grade on the five formative assessments covering Module I of the course and a passing grade on the five formative assessments covering Module II of the course in order to achieve a passing grade (D- or higher) in the course overall. Students who fail to fulfil one or both of these criteria will receive a final course grade of F.

The mid-term examination will cover Module I of the course, take place in class on Monday, February 8, be available only to those students with a passing grade on the five formative assessments to date, and be 75 minutes in duration. Students who can document a compelling reason for missing this examination will be excused and the associated weight will be added to that of the final examination (so that it becomes 48% + 22% = 70%). Students must inform the instructor of such an absence in advance, if possible.

The final examination will cover Modules I and II of the course with roughly double the weight on the latter, take place in class on Wednesday, March 24, be available only to those students who have satisfied both of the aforementioned satisfactory performance criteria, and be 2¾ hours (or 165 minutes) in duration. Graded final exam scripts will not be available for (supervised) student perusal until after the course grades have been approved by the Faculty Dean (see the second paragraph of Academic Regulation 3.3.4).

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5 The specific formula to be used to generate each homework mark (between zero and one) is “fraction correct of assigned exercises” raised to the power 0.415. Note that 0.50^{0.415} = 0.75.

**” The mid-term examination paper will become available on cuLearn at 2:30 p.m. EST at which point students will be expected to download it, answer the associated questions individually offline, and then upload their answers to cuLearn for submission no later than 3:55 p.m. EST. Note that these times imply a 10-minute file-transmission-and-submission allowance.

**†† The final examination paper will become available on cuLearn at 2:30 p.m. EDT at which point students will be expected to download it, answer the associated questions individually offline, and then upload their answers to cuLearn for submission no later than 5:30 p.m. EDT. Note that these times imply a 15-minute file-transmission-and-submission allowance. Note also that students are expected to follow the relevant parts of Carleton’s formal “Examination Procedures,” nos. 4, 9, and 11 in particular.
Course Schedule and Reading List

Jan. 11: Preliminaries
  Introduction (Perloff Ch. 1)
Jan. 13: Firms and Production (Perloff Ch. 6)
Jan. 20: Costs (Perloff Ch. 7 excl. §4 to end)
Jan. 27: Costs and Competitive Firms (Perloff Ch. 7 from §4 to end and Ch. 8 excl. §3 to end)
Feb.  3: Competitive Firms and Markets (Perloff Ch. 8 from §3 to end)
Feb.  8: Mid-Term Examination
Feb. 10: Monopoly (Perloff Ch. 11 excl. §5 to end)
Feb. 22: Graded Mid-Term Exam returned by T.A.
Feb. 24: Monopoly, Monopsony, and Price Discrimination (Perloff Ch. 11 from §5 to end and Ch. 12 excl. §3 to end)
Mar.  3: Pricing and Advertising (Perloff Ch. 12 from §3 to end)
Mar. 10: Game Theory (Perloff Ch. 13 excl. §4)
Mar. 17: Oligopoly (Perloff Ch. 14 excl. §5 and §6)
Mar. 24: Final Examination
Mar. 29: No tutorial
Mar. 31: Bertrand Oligopoly, Monopolistic Competition, and Factor Markets (Perloff Ch. 14, §5 and §6, and Ch. 15 excl. §2 to end)
Apr.  7: Capital Markets and Investing, Exhaustible Resources, and Auctions (Perloff Ch. 15 from §2 to end and Ch. 13, §4)
Apr. 12: No tutorial

MyLab Economics Schedule

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Weight</th>
<th>Release Date</th>
<th>Due Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quiz 1 and Quiz 2 for Week 0</td>
<td>2%</td>
<td>Wednesday, January 6 at 5:30 p.m. EST</td>
<td>Wednesday, January 13 at 5:30 p.m. EST</td>
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<tr>
<td>Homework and Quiz for Week 1</td>
<td>2%</td>
<td>Friday, January 8 at 5:30 p.m. EST</td>
<td>Friday, January 15 at 5:30 p.m. EST</td>
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<tr>
<td>Homework and Quiz for Week 2</td>
<td>2%</td>
<td>Friday, January 15 at 5:30 p.m. EST</td>
<td>Friday, January 22 at 5:30 p.m. EST</td>
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<tr>
<td>Homework and Quiz for Week 3</td>
<td>2%</td>
<td>Friday, January 22 at 5:30 p.m. EST</td>
<td>Friday, January 29 at 5:30 p.m. EST</td>
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<tr>
<td>Homework and Quiz for Week 4</td>
<td>2%</td>
<td>Friday, January 29 at 5:30 p.m. EST</td>
<td>Friday, February 5 at 5:30 p.m. EST</td>
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<tr>
<td>Homework and Quiz for Week 5</td>
<td>2%</td>
<td>Monday, February 8 at 5:30 p.m. EST</td>
<td>Monday, February 22 at 5:30 p.m. EST</td>
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<tr>
<td>Homework and Quiz for Week 6</td>
<td>2%</td>
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<td>Monday, March 1 at 5:30 p.m. EST</td>
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<tr>
<td>Homework and Quiz for Week 7</td>
<td>2%</td>
<td>Monday, March 1 at 5:30 p.m. EST</td>
<td>Monday, March 8 at 5:30 p.m. EST</td>
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<td>Homework and Quiz for Week 8</td>
<td>2%</td>
<td>Monday, March 8 at 5:30 p.m. EST</td>
<td>Monday, March 15 at 5:30 p.m. EDT</td>
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<tr>
<td>Homework and Quiz for Week 9</td>
<td>2%</td>
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<td>Monday, March 22 at 5:30 p.m. EDT</td>
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<td>Friday, March 26 at 5:30 p.m. EDT</td>
<td>Monday, April 5 at 5:30 p.m. EDT</td>
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<td>Homework and Quiz for Week 12</td>
<td>5%</td>
<td>Monday, April 5 at 5:30 p.m. EDT</td>
<td>Monday, April 12 at 5:30 p.m. EDT</td>
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</tbody>
</table>

Total: 30%