Course Outline
Econ 351A-A01
Mathematical Economics II: An Introduction to Dynamic Methods
Spring 2020   CRN- 21038

Instructor: Alok Kumar
Office: BEC 334
Class: Monday and Thursday: 8:30 - 9:50, COR B108
Office Hours: Wednesday, 10:30 - 12:00, BEC 334
Tel: 721-8543
Email: kumara@uvic.ca
Course Web Page: http://web.uvic.ca/~kumara/econ351A.html

The aim of the course is to provide an introduction to dynamic methods commonly used in economics. Students learn various methods used to solve difference and ordinary differential equations. Particular emphasis is placed on learning how to use these methods in order to analyze economic issues and problems.

Required Textbook:

Study Guide:

The solution manual contains the full solutions for odd-numbered questions in the text.

Grading:

Grading will be based on two mid-term examinations and one final examination. Weights: Mid-Term Examinations – 50% (25% each); Final Examination – 50%. Mid-Term examinations will be of one hour duration and will be held in class. Final examinations will be of two hours duration.
Important Dates:
Midterm I - Thursday, 6th February
Midterm II - Thursday, 19th March

Note: Tests must be written in ink.

Topics

(1) Integration – Chapter 16
(2) Introduction to Economic Dynamics – Chapter 17
(3) Linear, First Order Differential Equations – Chapter 21
(4) Nonlinear, First Order Differential Equations – Chapter 22
(5) Linear, Second-Order Differential Equations – Chapter 23
(6) Simultaneous Systems (Differential Equations) – Chapter 24, Sections 1 and 2
(7) Linear, First Order Difference Equations – Chapter 18
(8) Non-Linear, First-Order Difference Equations – Chapter 19
(9) Linear, Second-Order Difference Equations – Chapter 20
(10) Simultaneous Systems (Difference Equations) – Chapter 24, Sections 3 and 4

Some Important Comments

1. Grade Concerns: Students who have questions or concerns regarding their grade should discuss with me during office hours. All concerns must be brought to my attention no later than one week after the graded material was returned. After one week, any assigned grade is final.

2. Failed Exams: Failed exams cannot be retaken and no extra work can be done to improve your grade.

3. Make-Up Exams: No make up exam for the first midterm. Weight of the first mid-term will be shifted to the final exam. If a student misses second midterm, the student can choose to write a make-up second mid-term or transfer the weight to the final.
4. **Plagiarism and Cheating:** Students are expected to observe the same standards of scholarly integrity as their academic and professional counterparts. Students who are found to have engaged in unethical academic behavior, including the practices described on page 31 of the Calendar, are subject to penalty by the University.” The Library web-site has an excellent description of plagiarism which you may wish consult [http://library.uvic.ca/site/lib/instruction/cite/plagiarism.html](http://library.uvic.ca/site/lib/instruction/cite/plagiarism.html).

5. **Policy on Inclusivity and Diversity:** The University of Victoria is committed to promoting, providing and protecting a positive and safe learning and working environment for all its members. (UVic Calendar, p. 11)"

6. **Travel Plans:** Students are advised not to make travel plans until after the examination timetable has been finalized. Students who wish to finalize their travel plans at an earlier date should book flights that depart after the end of the examination period (see the University Calendar). There will be no special accommodation if travel plans conflict with the examination.

7. **Letter Grading:** Numerical score (%) equivalencies used in the Department are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A+</td>
<td>≥ 90%</td>
</tr>
<tr>
<td>A</td>
<td>85-89%</td>
</tr>
<tr>
<td>A-</td>
<td>80-84%</td>
</tr>
<tr>
<td>B+</td>
<td>77-79%</td>
</tr>
<tr>
<td>B</td>
<td>73-76%</td>
</tr>
<tr>
<td>B-</td>
<td>70-72%</td>
</tr>
<tr>
<td>C+</td>
<td>65-69%</td>
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<tr>
<td>C</td>
<td>60-64%</td>
</tr>
<tr>
<td>D</td>
<td>50-59%</td>
</tr>
<tr>
<td>F</td>
<td>&lt; 50%</td>
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</tbody>
</table>

For the grading scale and expectations, please see [http://web.uvic.ca/calendar2017-05/undergrad/info/regulations/evaluation.html#](http://web.uvic.ca/calendar2017-05/undergrad/info/regulations/evaluation.html#).

8. **Academic Concession for work that will be completed before course grades are submitted by the instructor:** A student whose academic performance is affected by injury, family or personal affliction, or illness should immediately consult with University Counseling Services, University Health Services, or another health professional, and may request, directly from the course instructor, deferral or substitution of a mid-term test or examination, or of other work which is due during the term. This request must be accompanied by supporting documentation from the health professional and must specifically cover the date of the missed examination or assignment deadline. It should normally be dated on or before the exam/deadline date and be submitted to the instructor within 10 days of this date. All work for
which a Concession is approved must be completed before course grades are submitted by the instructor.

9. **DEF Grade:** Students who have not completed all course requirements at the time of grade submission are advised to obtain a *Request for Academic Concession* form for a DEF grade.

10. **E-Mails:** Emails should be limited to critical matters, such as inability to attend class, an exam, or prolonged illness, and should include the course name and number in the subject line. Questions on course material should be asked during office hours or in class. The standard format for writing a letter must be used. This means it should start off with a salutation (e.g. Dear.), include full sentences and conclude with a signature that includes your name (e.g. "Sincerely, your full name"). Text message lingo should not be used.

11. **Course Policies:** The University and the Departmental course policies can be found at [http://web.uvic.ca/econ/undergraduate/course_policies.php](http://web.uvic.ca/econ/undergraduate/course_policies.php)

12. It is the responsibility of students to check their registration status and keep it up to date.

13. From time to time there will be other announcements and they will be posted on the course web page. It is the responsibility of students to visit the course web-page regularly.

14. **CES Survey:** I value your feedback on this course. Towards the end of term you will have the opportunity to complete a confidential course experience survey (CES) regarding your learning experience. The survey is vital to providing feedback to me regarding the course and my teaching, as well as to help the department improve the overall program for students in the future. When it is time for you to complete the survey, you will receive an email inviting you to do so. If you do not receive an email invitation, you can go directly to [http://ces.uvic.ca](http://ces.uvic.ca). You will need to use your UVic NetLink ID to access the survey, which can be done on your laptop, tablet or mobile device. I will remind you nearer the time, but please be thinking about this important activity, especially the following three questions, during the course.

1. What strengths did your instructor demonstrate that helped you learn in this course?

2. Please provide specific suggestions as to how the instructor could have helped you learn more effectively.
3. Please provide specific suggestions as to how this course could be improved.