

**Final Exam Information and Study Tips  
(3 Pages)**

**The Exam is on Thursday April 26, 9:00am - 11:50am**

**Exam Rooms are based on first letter(s) of your last name:**

**A - LE (IC-130)****LI - LU (IC-220)****LY - M (IC-204)****N - P (IC-208)****Q - TI (SW-143)****TS - WA (IC-212)****WE - Y (SW-128)****Z (IC-230)**

1. The exam is common to all three MATA33S sections and all students. The actual writing time is 170 minutes. The value of the exam is 50 % of your entire course grade. Arrive at your exam room at least 15 minutes early so that you can get seated and begin on time.
2. **Any student arriving more than 15 minutes after the exam has began will not be allowed to write it.** Such students will be directed to the Registrar's Office for information concerning lateness and deferred exams.
3. Bring your T-card and be prepared to display it for inspection during the exam. You will be asked to enter the following on the cover page of the exam paper: Your last name (i.e. your family name or surname), your given name(s), your student number, and your signature.
4. The following are **PROHIBITED** (either by accident or intent) at your writing space or on your person during any portion of the exam: calculators, opaque (i.e. non-see-through) pencil/pen cases or similar containers, cell phones, smart phone, iPod, iPad, smart watch, laptop, tablet device, electronic dictionary or translation device, any other similar data recording/transmission/listening device, textbooks, notes, extra paper, backpacks, hats/headcovers (except for reasons of faith/creed/religion) or anything else that is deemed by an invigilator to be suspicious.

You are **NOT ALLOWED** to have at your exam workspace: food, candy, any food or candy wrappers, coffee or other paper cups, paper or cardboard drink boxes, water or liquid bottles with a label, or anything else that is deemed to be suspicious by an invigilator. You may bring a water/drink bottle as long as it does not have a label on it.

**If you are found to have any of the forbidden items above at your writing space once the exam begins, that will be an Academic Offence, the item(s) will be confiscated, and an Exam Incident Report will be filed against you.**

**If you bring any electronic devices into the exam room, you will have to put them in a designated area and you will be separated from your device.**

5. You may write the exam in pen, other ink, or pencil.
6. Once written, your exam becomes property of UTSC and is not returned to you. See the UTSC 2016/17 Calendar for information about that and other details concerning petitions, appeals, etc.

## **Material of Responsibility for Exam**

1. You are responsible for the following textbook sections and extra notes:
  - (a) Sections 7.1 - 7.3.
  - (b) Sections 6.1 - 6.6 plus extra notes/pdf notes on determinants and Cramer's rule.
  - (c) Sections 2.8, 17.1 - 17.7, 17.9 plus extra notes/pdf notes on extrema for functions of several variables (i.e. Hessian Optimization).
2. You are responsible for the content, ideas and discussions from all of your lectures, the pdf lecture notes/slides posted at the MATA33S home page, tutorials and quizzes, and the midterm test.
3. You are responsible for Assignments/Solutions 1 - 11.
4. It is expected that you are strong with our prerequisite course, MATA32.

## **Format and Scope of Exam**

1. Expect a general format that is similar to MATA33S final exams as posted at our web site, except that there are no multiple choice questions. The final exam has only full-solution/short answer/calculation type questions. There are no multiple choice questions.
2. The exam is valued at 150 points in total.
3. About 70-80 percent of the exam questions deal with material occurring after the midterm test. The balance of the questions are focussed on material that was before (or included in) the midterm test.
4. Problems/questions/test-items are like those seen or implied in the lectures, in the assignments/solutions, and in the text (even or odd problems or review problems). A few problems will, of course, be completely new. The final exam is more comprehensive and more challenging than the midterm test.
5. The exam is well-balanced and fair in its coverage of the course material above. Some questions will be very easy for practically all students. Many questions are straightforward and routine for the majority of students. A few questions will be quite difficult for just about every MATA33S student. You should expect an exam that is more difficult than the midterm test.

6. **Students are expected to read, understand, and comply with:** this Exam Information Sheet, the MATA33S General Information Sheet, and the University of Toronto Code of Behavior and Student Conduct.

### **General Exam Study/Writing Tips**

1. Be sure you allow enough time in your exam preparation to have thoroughly read, thought about, and practiced questions on all of the Material of Responsibility as outlined above. It's essential to have solid comprehensive coverage of all of MATA33S. In your studying and preparation, try to understand what you do not know and take action on that while you have time to do so.
2. Be able to perform routine, straightforward calculations and manipulations accurately and easily. If you have to think too long or much about easy items, then you are not sufficiently prepared.
3. Try to present your work, answers, and solutions in a neat, organized way. Write/print clearly and make sure your work is easy to read.
4. When you get stuck on an exam question, try to make progress by understanding why you are stuck.
5. Seriously practice with past final exams (and even some past midterm tests).
6. Spend a proportionate amount of time with the assignments (and related problems from the text and past tests/exams). Try to solve many problems of varying difficulty and complexity.
7. Invest 5 minutes at the beginning of the exam to look over the whole paper before you begin to answer questions. This will help you to get thinking and it might point to questions you should answer first.
8. Good luck, study hard, and write a final exam that will contribute towards your best efforts to earn an excellent mark in MATA33S.