

Math 1H03

Course Outline

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Course Home Page

- The course home page is NOT on WebCT. It is accessible from the link at the following web site:
<http://www.math.mcmaster.ca/childsa/childs.html>

Tutorials and TA's

- Tutorials start on Monday September 19th
- To **register for a tutorial or a section**, or to **change tutorials or sections** follow the procedure given here:
<http://www-new-math.mcmaster.ca/courses/changes.php>
- Times and locations of tutorials can be found on the [registrar's](#) web site
- All other information about TAs and tutorials can be found on the [TA Information Page](#)

Course Description

- **Course Title:** Math 1H03 - Linear Algebra for Engineering
- **Class Times and Locations:** See the [registrar's](#) web site

Section 1 (C01) Instructor Information

- **Name:** [Aaron Childs](#)
- **email:** childsa@mcmaster.ca
- **Office Location:** HH 213
- **Office Hours:** Monday 1:30pm-2:20pm, Tuesday 10:30am-11:20am, Wednesday 1:30pm-2:20pm, Thursday 1:30pm-2:20pm, Friday 10:30am-11:20am
- **Phone:** Ext. 23426

Section 2 (C02) Instructor Information

- **Name:** [Dan Moraru](#)
- **email:** morarud@math.mcmaster.ca
- **Office Location:** HH/319
- **Office Hours:** Monday 11:30am-1:30pm, Wednesday 11:30am-12:30pm
- **Phone:** Ext. 23403

Section 3 (C03) Instructor Information

- **Name:** [Slavek Kovarik](#)
- **email:** kovarik@mcmaster.ca
- **Office Location:** HH/425

- **Office Hours:** Tuesday, Thursday, Friday 10:00am - 11:00am, or by appointment (e-mail preferred)
- **Phone:** Ext. 23408

Textbook

- **Required:** *Linear Algebra with Applications, 4th Edition*, Nicholson, McGraw-Hill
- **Optional:** Student Solutions Manual, for *Linear Algebra with Applications, 4th Edition*, McGraw-Hill

Note: A copy of the textbook and solutions manual are available on reserve in Thode Library

Material Covered

- All Sections covered in the suggested problems
- **Major Topics:** Systems of linear equations, matrix algebra, determinants and diagonalization, vector geometry, vector spaces, orthogonality, complex numbers

Course Evaluation

- **Your final mark will be calculated by taking the best of these two schemes:**

4 Tests - 15% each

Final Exam - 40%

OR

Tests 1-3 - 15% each

Final exam - 55%

Notes:

- If you miss Test #4 for any reason whatsoever, then your mark will automatically be calculated using the second scheme above (which will be the best for you), and so there is no need to consult your instructor (or anyone else) if you miss Test #4
- If any of tests 1-3 are missed because of a family matter or illness you should contact your Associate Dean WITHIN ONE WEEK of the missed work with the appropriate documentation. In this case, an appropriate allowance will be made to account for the missed work.

Information about Tests

- There will be four 40 minute tests, each worth 15% of your final mark
- Before writing any of the tests it is YOUR responsibility to know the test information given here, IN ADDITION TO the information given on the [test](#) information pages
- Unless otherwise specified on the test information pages, each test will consist of 4 questions worth 5 marks each.
- The time allowed to write a test depends on the day that it is written. For details, see the information page for each particular [test](#).
- Your test will be stamped with the time when you begin, and it is YOUR responsibility to make sure that your test is submitted within the time limit for that particular day (it will be stamped again when you submit it)
- Tests submitted after the time limit for that particular day will be heavily penalized
- Test rewrites can NOT be written on Thursday or Friday
- Unless otherwise specified on the [test](#) information pages, you must show ALL of the details of your solutions on the tests, i.e. do NOT skip steps. Marks will be deducted if solutions are incomplete (i.e., if not all steps are shown), even if the answer is correct.
- Calculators are NOT allowed
- Tests will be based closely on the corresponding suggested problems which are posted on the [test](#) information pages
- Some sample tests are available on the [test](#) information pages
- You will have to show and prove things (as in the suggested problems and sample tests), but you will not be required to reproduce proofs of theorems from the textbook, or give definitions. (Note that on the final exam, you may be required to prove theorems from the textbook)
- You may rewrite any or all of Tests 1-3.
- Test #4 cannot be rewritten.

- If you rewrite a test, then your mark for that test will be calculated according to the following formula:

$$\text{Test mark} = (\text{Mark on first attempt}) \times (0.3) + (\text{Mark on second attempt}) \times (0.7)$$
- Marks for the tests will be posted on the course web site by the Monday following the week of the test
- Tests will NOT be given back, but marked tests can be viewed ONLY on the week following the test at selected times (see the [test](#) information pages for details)

Tests will be written on *select* days and times on the weeks given below. For more detailed information about each test, check the [test](#) information pages

- **Test #1:** Week of October 10
- **Test #2 and Test #1 rewrite** (Test #1 rewrite cannot be written on Thursday or Friday): Week of October 24
- **Test #3 and Test #2 rewrite** (Test #2 rewrite cannot be written on Thursday or Friday): Week of November 7
- **Test #4 and Test #3 rewrite** (Test #3 rewrite cannot be written on Thursday or Friday): Week of November 21

Academic Dishonesty

Academic dishonesty consists of misrepresentation by deception or by other fraudulent means and can result in serious consequences, e.g. the grade of zero on an assignment, loss of credit with a notation on the transcript (notation reads: Grade of F assigned for academic dishonesty), and/or suspension or expulsion from the university. It is your responsibility to understand what constitutes academic dishonesty. For information on the various kinds of academic dishonesty please refer to the Academic Integrity Policy, specifically Appendix 3, located at http://www.mcmaster.ca/senate/academic/ac_integrity.htm The following illustrates only three forms of academic dishonesty: 1. Plagiarism, e.g. the submission of work that is not one's own or for which other credit has been obtained. 2. Improper collaboration in group work. 3. Copying or using unauthorized aids in tests and examinations.

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