M014
Basic Algebra

Introduction

- Lecturer: Lo Chi Wing, Peter
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- **Schedule**
  - Lecture: 10:00 – 13:00 (Monday)

Syllabus

- Real Numbers and their Properties
- Linear Equations and Inequalities, Absolute Value, and Applications
- Graphing Lines and Linear Inequalities, System of Linear Equations
- Integral Exponents, Polynomials, and Factoring
- Rational Expressions
- Rational Exponents and Radicals
- Solving Quadratic Equations and Systems of Nonlinear Equations, Functions
- Functions, Parabolas, and Circles
- Transforming Graphs, Exponential and Logarithm Functions

Assessment

- Assignment: 40 Points x 9
- Examination: 100 Points x 3
- Final Examination: 200 Points

- Course Work Point: 860 Points
- Examination Points: 500 Points

- You need to have at least 350 Examination points and 645 Course Work Points to pass this subject!

Learning Approach

Lecture	27 hours
Tutorial	9 hours
Self study (including assignments)	144 hours

	Total: 180 hours

Course Outline

- 9 Assignments, 3 Examinations and 1 Final Examination.
- Topics selected will be based on materials taught in classes and possibly some external research
- You are required to exercise initiative and research to maximize your marks.
- You are encourage to exchange ideas and discussions but NOT copying.
- Marks will be deducted for late submission of assignments or project. For each day you are late, a penalty of 10% will be incurred.
- More information will be given at a later date.

Do and Don't

- **Do not turn on your mobile**, pager or any form of alarm that will distract your fellow classmates.
- **Do not make any unnecessary noise** unless you have just found out you won a 3T!
- **Do turn up on time** to avoid unnecessary distraction.
- **Do turn up for tutorials**, as this will help you to further understand the concepts that are being taught in the lectures.
- Do exchange ideas and discussions on assignments but **NOT copying**. You are here to LEARN not copy. You will be severely dealt with if caught cheating under the university disciplinary action.
- **Do enjoy and learn from the course.**

Text Books

- **Text Book**
  - Dugopolski, Mark, ***Algebra for college Students***, Second Edition, Boston: McGraw Hill, 1994.
    (ISBN: 0-07-232399-X)