**Course Title**  
ICNS 100 – Intensive Mathematics

**Section**  
9

**Instructor**  
Assoc.Prof. Wiroonsak Santipach, Ph.D.

**Date & Time**  
Monday Wednesday, 2 - 4 PM, Room 1402

**Math Clinic**  
Monday Wednesday, 1:30 - 2 PM Room 1309

**Office Hours**  
-

**Email**  
wiroonsak.s@ku.ac.th

**Course Website**  
http://pirun.ku.ac.th/~fengwrs/icns100.htm

**Required Textbook**  
Pearson Education, Inc,*

### Course Contents

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<th>Week</th>
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| 1 5 - 9 Jan | **Chapter 2 Functions and Graphs**  
2.5 Graphs in Rectangular Coordinates | 2.6 Symmetry |
| 2 12 – 16 Jan | 2.7 Translations and Reflections | **Chapter 3 Lines, Parabolas, and Systems**  
3.1 Lines |
| 3 19 – 23 Jan | 3.2 Applications and Linear Functions | 3.3 Quadratic Functions |
| 4 26 – 30 Jan | Quiz 1 (10%) (Topics: 2.5-3.1)  
3.3 Quadratic Functions | 3.4 Systems of Linear Equations |
| 5 2 – 6 Feb | 3.4 Systems of Linear Equations | 3.5 Nonlinear Systems |
| 6 9 – 13 Feb | **Chapter 4 Exponential and Logarithmic Functions**  
4.1 Exponential Functions (including Compound Interest) | Review |
| Sat 14 Feb  
10:00 - 11:50 | **Midterm Examination**  
Sections: 2.5 – 3.5. |
| 7 16 – 20 Feb | 4.2 Logarithmic Functions | 4.3 Properties of Logarithms  
4.4 Logarithmic and Exponential Equations |
| 8 23 – 27 Feb | **Chapter 6 Matrix Algebra**  
6.1 Matrices  
6.2 Matrix Addition and Scalar Multiplication | 5.1 Compound Interest (up to Example3  
Effective Rate is not included)  
6.3 Matrix Multiplication |
| 9 2 – 6 Mar | 6.4 Solving Systems by Reducing Matrices **Quiz 2 (10%) (Topics: 4.1-4.4)** | 6.5 Solving Systems by Reducing Matrices (continued) |
| 10 9 – 13 Mar | 6.6 Inverses | 6.7 Determinant (10th Edition) |
| Sat 28 Mar 10:00 – 11:50 | **Final Examination**  
Sections: 4.1-4.4, 5.1, 6.1 – 6.8 |

### Exercises Recommended

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<td>For these 2 sections please see 10th edition or before, or contact your instructor for the materials.</td>
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### Evaluation

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### Grading

- **S (Satisfied)**  
  A total score of ≥ 60%.
- **U (Unsatisfied)**  
  A total score of < 60%.

### Class Policy

1) Please keep in mind that according to the university policy students are required to have at least 80% class attendance to be eligible to take the final examination. Class attendance will be often checked.

2) Grading is based on items listed above. Do not expect to have a re-quiz or a re-exam.