**Course Syllabus**

School of Mechanical and Aerospace Eng, Seoul National University (Fall 2008)

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| **Course Number** | 010. 141 | | **Section** | |  | **Course Title** | | | | Engineering Mathematics 2 | **Unit** | | 3 |
| **Instructor** | Name : Kim, Hyoun Jin | | | | | | | website : http://icsl.snu.ac.kr | | | | | |
| E-mail : [hjinkim@snu.ac.kr](mailto:hjinkim@snu.ac.kr) | | | | | | | TEL : (02) 880-9252 | | | | | |
| Office Hour / Place : M 16:00-18:00 / Bldg 301-1035 | | | | | | | | | | | | |
| **1.Objectives** | - Establish concepts on matrix theory and linear algebra.  - Introduce Fourier series and transformation, and apply them to solve to partial differential equations.  - Extend the concepts of series and vector calculus to complex integration and complex series. | | | | | | | | | | | | |
| **2. Text & References** | (Text) Advanced Engnieering Mathematics, 9th Ed. by Erwin Kreyzig, Wiley  (Ref) Advanced Engineering Mathematics, 2nd Ed. by Zill & Cullen, Jones and Bartlett  (Ref) Introduction to Linear Algebra, 3rd Ed. by Gilbert Strang, Wellseley-Cambridge Press | | | | | | | | | | | | |
| **3. Grading** | **Attendance** | **HW** | | **Midterm** | | | **Final** | | **Others** | | | **Total** | |
| 5% | 20% | | 35% | | | 40% | | % | | | 100% | |
| (In-class quiz based on HW problems) | | | | | | | | | | | | |
| **4. Information for Students** | * Prerequisites : Calculus, Engineering Mathematics I * About 9 problem sets and 2 closed-book exams | | | | | | | | | | | | |
| **5. Honor Code** | All students are presumed upon enrollment to have an understanding of the Honor System. Academic dishonesty by a student will not be tolerated and will be treated in accordance with the SNU procedures. A score of “0” can be assigned for the corresponding test/assignment and/or a course grade of ‘F’ can be assigned. | | | | | | | | | | | | |