

Course Overview

❑ Instructor : Kim, Sang Ouk

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❑ Assistant: Kim, Bong Hoon # 3419

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❑ Lecture: 10:00-10:50 (Mon, Wed, Fri), #1317

❑ Textbook:

1. Richard A. L. Jones, "Soft Condensed Matter", 2002.
2. Ulf W. Gedde, "Polymer Physics", 1995.
3. Ronald G. Larson, "The Structure and Rheology of Complex Fluids", 1999.

❑ Grading:

- Midterm & final examination: 40 %
- Attendance: 20%

Course Plan

	Content
1 st week	Course Introduction
2 nd week	Soft Materials - Introduction
3 rd week	Soft Materials - Introduction
4 th week	Polymer - Introduction
5 th week	Polymer - Chain Conformation
6 th week	Polymer - Rubber Elasticity
7 th week	Polymer - Molten State
8 th week	Midterm Examination
9 th week	Liquid Crystal - Mesophase Structure
10 th week	Liquid Crystal - Mesophase Structure
11 th week	Liquid Crystal - Defects & Application
12 th week	Block Copolymer Nanostructures
13 th week	Block Copolymer Nanostructures
14 th week	Soft Lithography
15 th week	Course Review
16 th week	Final Examination