

Ch En 593R – Class Schedule and Assignments  
Spring 2023  
(Subject to change)

| Class | Day | Date   | Lecture | Topic                                     | HW Due |
|-------|-----|--------|---------|-------------------------------------------|--------|
| 1     | Tu  | Apr 26 | 1       | Intro to Polymers, Ideal Chains           |        |
| 2     | Tu  | May 03 |         | No Class                                  |        |
| 3     | Tu  | May 10 | 2       | Ideal Chain Conformations                 |        |
| 4     | Tu  | May 17 | 3       | Ideal Chain Distributions and Free Energy | 1      |
| 5     | Tu  | May 24 |         | No Class                                  | 2      |
| 6     | Tu  | May 31 | 4       | Real chains and scaling theory            |        |
| 7     | Tu  | Jun 07 | 5       | Flory-Huggins theory                      | 3      |
| 8     | Tu  | Jun 14 | 6       | Polymer melts and block copolymers        | 4      |
|       |     |        |         | No Final Exam                             |        |

Last updated: 05/23/22

Possible other topics:

Polyelectrolytes  
 Polymer field theory  
 Wormlike chains  
 Scattering  
 Polydispersity  
 Polymer crystallization  
 Polymer dynamics  
 The glass transitions