

Interdisciplinary Program in Polymer Engineering

ה ת ו כ נ י ת הבין - יחידתית להנדסת פולימרים



Interdisciplinary Program in Polymer Engineering

List of Core and Complementary Courses

MSc: At least 12 pts from Lists A and B, at least 6 pts from List A ME: At least 20 pts from Lists A and B, at least 10 pts from List A

ME: Up to 16 pts in Management, Economics, Quality Assurance and Reliability

List A: Core Courses

- 019149 Mechanics of Soft Materials (2 pts)
- 036093 Mechanics of Composite Materials 1 (3 pts)
- 046012 Introduction Flexible Organic Electronics (2 pts)
- 056120 Electron Microscopy of Soft Matter (2 pts)
- 056386 Fundamentals of Polymer Processing (2 pts)
- 058129 Structure and Properties of Polymers (2 pts)
- 058162 Polymer Processing (2 pts)
- 058172 Polymer Thermodynamics (2 pts)
- 058173 Physical Methods for Polymer Characterization (2 pts)
- 058181 Structure Determination by Scattering (2 pts)
- 058183 Polymers in Biotechnology 2 (2 pts)
- 058184 Polymer Characterization Laboratory (2 pts)
- 058187 Self Assembly in Polymer Systems (2 pts)
- 066217 Packaging for Food, Medicine and Biological Products (3 pts)
- 066247 Advanced Materials for Food and Biotechnology (2 pts)
- 066248 Rheology (2 pts)
- 118113 Statistical Mechanics of Polymers (2 pts)
- 127724 Introduction to Polymer Chemistry (2 pts)
- 127740 Polymers: From Synthesis to Architecture (2 pts)
- 316000 Structure and Behavior of Polymers (2.5 pts)
- 318101 Porous Polymers (2 pts)
- 318422 Advanced Composite Materials (2 pts)
- 318520 Materials Engineering for Organic Electronics (2 pts)
- 318621 Selected Topics in Plastic Materials* (2 pts)
- 318721 Polymer Surfaces and Interfaces (2 pts)
- 318722 Structure and Properties of Crystalline Polymers (2 pts)
- 318724 Polymer Blends: Structure and Properties (2 pts)
- 318530 Thermodynamics and Mechanics of Polymers (2 pts)
- 338401 Biomaterials (2 pts)
- 858121 Polymer Rheology (2 pts)
- 858124 Advanced Topics in Polymer Engineering 1
 Complex Polymer Systems for Advanced Applications (2 pts)

List B: Complementary Courses

- 019516 Plastics in Building (2 pts)
- 036104 Non-Newtonian Fluid Mechanics (3 pts)
- 038802 Experimental Methods in Micro Flows (3 pts)
- 038805 Computational Micromechanics of Composite Materials (3 pts)
- 056140 Colloidal Systems (2 pts)
- 056166 Surface Phenomena (2 pts)
- 056383 Complex Fluids (2 pts)
- 056396 Particulate Fluids (2.5 pts)
- 056397 Membrane Separations: Physical Principles and Advanced Materials (2.5 pts)
- 066521 Tissue Engineering (2pts)
- 086522 Mechanics of Nonlinear Composites (3 pts)
- 127730 Structure Determination by Physical Methods
- 318529 Analytical Electron Microscopy (2 pts)
- 336528 Controlled Drug Release (2.5 pts)