



WISCONSIN

UNIVERSITY OF WISCONSIN-MADISON

University of Wisconsin - Madison
College of Engineering [EGR]
Last Offered: 2012 Spring [1124]
Direct Link to this Syllabus :

<http://aefis.engr.wisc.edu/index.cfm/page/CourseAdmin.ViewABET?coursecatalogid=897&pdf=True>

1. **M E 825, Molecular Network Theories for Polymeric Materials**
 2. **Credits : 3 Contact Hours :**
 3. **Textbook and Materials :**
 4. **Specific Course Information :**
 - a. **Brief description of the content of the course (Course Catalog Description) :** Stress-strain-birefringence relations for rubber-like solid derived from 'Gaussian' network model. Birefringence theory from Maxwell's equations. Temporary-junction networks: constitutive equations for concentrated polymer solutions and molten polymers.
 - b. **Pre-requisites or Co-requisites :** Cons inst
- **Specific Goals for the Course :**
 - a. **Course Outcomes :**
 - b. **ABET Student Learning Outcomes :**