课程名（Coursename）  
Chemistry 158. Nanoscience and Nanotechnology  
  
课程代码（Coursenumber）  
7504  
  
课程对象（Audience）  
For Undergraduates and Graduates  
  
开课教师（Teacher）  
Charles M. Lieber  
  
学期（Semester）  
Spring term  
  
课程描述（Description））  
A survey of nanoscience and nanotechnology. Topics include: bottom-up versus top-down paradigms; synthesis and fabrication of zero-, one-and two-dimensional materials; physical properties of nanostructures, including electronic and optical properties; hierarchical organization in two and three dimensions; functional devices circuits and nanosystems; applications with emphasis on nano-bio interface and electronics.  
  
课时信息（Totalhours）  
Tu., Th., 2–3:30. EXAM GROUP: 16, 17  
  
教参信息（Textbookinfo）  
1 Introduction to Nanoscience and Nanotechnology by Gabor L. Hornyak, H.F. Tibbals, Joydeep Dutta, and John J. Moore (Hardcover - Dec. 22, 2008)  
ISBN-13: 978-1420047790  
世界各地拥有馆藏的图书馆（OCLC）:161  
2 Nanoscience and Nanotechnology: Environmental and Health Impacts by Vicki H. Grassian (Hardcover - Oct. 6, 2008)  
ISBN-13: 978-0470081037  
世界各地拥有馆藏的图书馆（OCLC）:211  
3 Introduction to Nanoscience by Gabor L. Hornyak, Joydeep Dutta, H.F. Tibbals, and Anil Rao (Hardcover - May 15, 2008)  
ISBN-13: 978-1420048056  
世界各地拥有馆藏的图书馆（OCLC）:337  
4 Advances in Nanoscience and Nanotechnology by Andrew T. S. Wee (Hardcover - June 23, 2009)  
ISBN-13: 978-9812839558   
世界各地拥有馆藏的图书馆（OCLC）:36  
5 Nanoscience and Nanotechnology for Chemical and Biological Defense (Acs Symposium Series) by R. Nagarajan, Walter Zukas, T. Alan Hatton, and Stephen Lee (Hardcover - Jan. 26, 2010)  
ISBN-13: 978-0841269811  
世界各地拥有馆藏的图书馆（OCLC）:83  
6 Nanoscience and Nanotechnology in Engineering by Vijay K. Varadan, A. Sivathanu Pillai, and Debashish Mukherji (Hardcover - May 30, 2010)  
ISBN-13: 978-9814277921  
世界各地拥有馆藏的图书馆（OCLC）:7  
7 Nanophysics and Nanotechnology: An Introduction to Modern Concepts in Nanoscience (Physics Textbook) by E. L. Wolf (Paperback - Oct. 20, 2006)  
ISBN-13: 978-3527406517  
世界各地拥有馆藏的图书馆（OCLC）:246  
8 Scanning Probe Microscopy in Nanoscience and Nanotechnology (NanoScience and Technology) by Bharat Bhushan (Hardcover - July 29, 2010)  
ISBN-13: 978-3642104961  
世界各地拥有馆藏的图书馆（OCLC）:18