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