课程名（Coursename）
Chemistry 217. Modern Applications of Analytical Techniques to Chemical and Biological Sciences
课程代码（Coursenumber）
1061

课程对象（Audience）
Primarily for Graduates

开课教师（Teacher）
Andrew Norman Tyler

学期（Semester）
Spring term

课程描述（Description））
The goal of this course is to introduce students to analytical techniques that enable the characterization and study of molecules. While emphasis will be placed on the application of mass spectrometry to small molecules, other techniques, such as nuclear magnetic resonance (NMR) spectroscopy will be discussed, as well as the important application of chromatography in conjunction with these techniques. The course will also discuss the study of biomolecules and should prove useful for both pure chemists and chemical biologists.

课时信息（Totalhours）
Tu., Th., 1–2:30. EXAM GROUP: 15, 16

教参信息（Textbookinfo）
1 Infrared Spectroscopy: Fundamentals and Applications (Analytical Techniques in the Sciences (AnTs) \*) - Paperback (Aug. 16, 2004) by Barbara H. Stuart
ISBN-13: 978-0470854280
世界各地拥有馆藏的图书馆（OCLC）:264
2 Applications of Analytical Techniques to the Characterization of Materials - Hardcover (Mar. 31, 1992) by D.L. Perry
ISBN-13: 978-0306441899
3 Fast Analytical Techniques for Electrical & Electronic Circuits - Hardcover (June 15, 2002) by Vatché Vorpérian
ISBN-13: 978-0521624428
4 Quantitative Equity Portfolio Management: Modern Techniques and Applications (Chapman & Hall/CRC Financial Mathematics Series) - Hardcover (May 11, 2007) by Edward E. Qian, Ronald H. Hua, and Eric H. Sorensen
ISBN-13: 978-1584885580
世界各地拥有馆藏的图书馆（OCLC）:78
5 Multi-scale Quantum Models for Biocatalysis: Modern Techniques and Applications (Challenges and Advances in Computational Chemistry and Physics) - Hardcover (June 30, 2009) by Darrin M. York and Tai-Sung Lee
ISBN-13: 978-1402099557
世界各地拥有馆藏的图书馆（OCLC）:16
6 Liquid Chromatography/Mass Spectrometry: Techniques and Applications (Modern Analytical Chemistry) - Hardcover (Jan. 31, 1990) by Alfred L. Yergey, Charles G. Edmonds, Ivor A.S. Lewis, and Marvin L. Vestal
ISBN-13: 978-0306431869
7 Application of Modern Analytical Techniques to Ensure Seafood Safety And Authenticity: Fao Fisheries Technical Paper - Paperback (July 7, 2005) by Martinez Iciar, James David, and Loreal Henri
ISBN-13: 978-9251052938
世界各地拥有馆藏的图书馆（OCLC）:65
8 Modern Analytical Techniques for M Part1 (Techniques of Metals Research) - Hardcover (July 1970) by BUNSHAH and R.F. Bunshah
ISBN-13: 978-0471122159
9 Water Quality Measurement: Volume 1: The Modern Analytical Techniques (Pollution Engineering & Technology Series) - Hardcover (Aug. 1, 1981) by H.B. Mark and J. Mattson
ISBN-13: 978-0824713348
10 Environmental Chemometrics: Principles and Modern Applications (Analytical Chemistry) - Paperback (Nov. 21, 2008) by Grady Hanrahan
ISBN-13: 978-1420067965
世界各地拥有馆藏的图书馆（OCLC）:146
11 Mass Spectrometry: Clinical and Biomedical Applications Volume 2 (Modern Analytical Chemistry) - Hardcover (Jan. 31, 1994) by Dominic M. Desiderio
ISBN-13: 978-0306444555