课程代码（Coursenumber）：

268.

课程名（Coursename）：

Mass Spectrometry.

学分（credit)：(2)

课程设置（course setting）：Course 266 will restrict credit if completed before 268. Three hours of lecture per week for 10 weeks.

选课要求（prerequisite）：Graduate standing or consent of instructor.

课程描述（Description）：Principles, instrumentation, and applications in mass spectrometry, including ionization methods, mass analyzers, spectral interpretation, multidimensional methods (GC/MS, HPLC/MS, MS/MS), with emphasis on small organic molecules and bioanalytical applications (proteins, peptides, nucleic acids, carbohydrates, noncovalent complexes); this will include the opportunity to be trained and checked out on several open-access mass spectrometers. (S)

教参信息（Textbookinfo）:

1 Mass Spectrometry: Principles and Applications by Edmond de Hoffmann and Vincent Stroobant (Paperback - Nov. 16, 2007)

ISBN-13: 978-0470033111

世界各地拥有馆藏的图书馆（OCLC）:393

2 Introduction to Mass Spectrometry: Instrumentation, Applications, and Strategies for Data Interpretation by J. Throck Watson and O. David Sparkman (Hardcover - Dec. 4, 2007)

ISBN-13: 978-0470516348

世界各地拥有馆藏的图书馆（OCLC）:234

3 Mass Spectrometry: A Textbook by Jürgen H. Gross (Hardcover - Mar. 5, 2004)

ISBN-13: 978-3540407393

世界各地拥有馆藏的图书馆（OCLC）:433

4 Fundamentals of Contemporary Mass Spectrometry (Wiley - Interscience Series on Mass Spectrometry) by Chhabil Dass (Hardcover - Apr. 20, 2007)

ISBN-13: 978-0471682295

世界各地拥有馆藏的图书馆（OCLC）:238

5 Mass Spectrometry: Instrumentation, Interpretation, and Applications (Wiley - Interscience Series on Mass Spectrometry) by Dominic M. Desiderio, Nico M. Nibbering, Rolf Ekman, and Jerzy Silberring (Hardcover - Dec. 10, 2008)

ISBN-13: 978-0471713951

世界各地拥有馆藏的图书馆（OCLC）:157

6 A Beginner's Guide to Mass Spectral Interpretation by Terrence A. Lee (Paperback - Jan. 15, 1998)

ISBN-13: 978-0471976295

7 Understanding Mass Spectra: A Basic Approach by R. Martin Smith (Hardcover - Sept. 27, 2004)

ISBN-13: 978-0471429494

世界各地拥有馆藏的图书馆（OCLC）:587

8 Trace Quantitative Analysis by Mass Spectrometry by Robert K. Boyd, Cecilia Basic, and Robert A. Bethem (Hardcover - June 10, 2008)

ISBN-13: 978-0470057711

世界各地拥有馆藏的图书馆（OCLC）:7

9 Electrospray and MALDI Mass Spectrometry: Fundamentals, Instrumentation, Practicalities, and Biological Applications by Richard B. Cole (Hardcover - Apr. 26, 2010)

ISBN-13: 978-0471741077

世界各地拥有馆藏的图书馆（OCLC）:22

10 LC/MS: A Practical User's Guide by Marvin C. McMaster (Hardcover - Aug. 10, 2005)

ISBN-13: 978-0471655312

世界各地拥有馆藏的图书馆（OCLC）:247