课程代码（Coursenumber）：

CHEM BC 3280y

课程名（Coursename） ：

Advanced Organic Chemistry

课程内容介绍（course content introduction）：Survey of topics in structural, mechanistic, and synthetic organic chemistry, including molecular orbital treatment of structure, bonding, and chemical reactivity; elucidation of organic reaction mechanisms; pericyclic reactions; stereoelectronic effects; asymmetric reactions; and natural product total synthesis.

选课条件（Prerequisites）: One year of organic chemistry. Lecture: MWF 11:00-11:50. Problem section: TBA.

学分（credit）：3.5 points

教参信息（Textbookinfo）:

1 Advanced Organic Chemistry: Part A: Structure and Mechanisms (Advanced Organic Chemistry / Part A: Structure and Mechanisms) by Francis A. Carey and Richard J. Sundberg (Paperback - June 13, 2007)

Publisher: Springer; 5th edition (June 13, 2007)

ISBN-13: 978-0387683461

世界各地拥有馆藏的图书馆（OCLC）:221

2 Advanced Organic Chemistry: Part B: Reaction and Synthesis (Advanced Organic Chemistry / Part B: Reactions and Synthesis) by Francis A. Carey and Richard J. Sundberg (Paperback - Sept. 6, 2007)

Publisher: Springer; 5th edition (September 6, 2007)

ISBN-13: 978-0387683546

世界各地拥有馆藏的图书馆（OCLC）:221

3 March's Advanced Organic Chemistry: Reactions, Mechanisms, and Structure by Michael B. Smith and Jerry March (Hardcover - Jan. 16, 2007)

Publisher: Wiley-Interscience; 6 edition (January 16, 2007)

ISBN-13: 978-0471720911

世界各地拥有馆藏的图书馆（OCLC）:467

4 Advanced Organic Chemistry: Reactions, Mechanisms, and Structure by Jerry March (Hardcover - July 1, 1992)

Publisher: John Wiley & Sons; 4th edition (July 1, 1992)

ISBN-13: 978-0471601807

5 Advanced Organic Chemistry: Reaction Mechanisms (Advanced Organic Chemistry Series) by Reinhard Bruckner (Hardcover - July 26, 2001)

Publisher: Academic Press; 1st edition (July 26, 2001)

ISBN-13: 978-0121381103

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6 Modern Physical Organic Chemistry by Eric V. Anslyn and Dennis A. Dougherty (Hardcover - July 15, 2005)

Publisher: University Science; illustrated edition edition (July 15, 2005)

ISBN-13: 978-1891389313

世界各地拥有馆藏的图书馆（OCLC）:439

7 Advanced Organic Chemistry (2nd Edition) by Bernard Miller (Paperback - July 21, 2003)

Publisher: Prentice Hall; 2 edition (July 21, 2003)

ISBN-13: 978-0130655882

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8 Advanced Practical Organic Chemistry by J. Leonard, B. Lygo, and G. Procter (Paperback - June 2, 1994)

Publisher: CRC Press; 2 edition (June 2, 1994)

ISBN-13: 978-0748740710

9 Organic Chemistry by Jonathan Clayden, Nick Greeves, Stuart Warren, and Peter Wothers (Paperback - Aug. 31, 2000)

Publisher: Oxford University Press, USA; 1 edition (August 31, 2000)

ISBN-13: 978-0198503460

10 Organic Structure Determination Using 2-D NMR Spectroscopy: A Problem-Based Approach (Advanced Organic Chemistry) by Jeffrey H. Simpson (Paperback - July 24, 2008)

Publisher: Academic Press; 1 edition (July 24, 2008)

ISBN-13: 978-0120885220

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