课程代码（Coursenumber）

CHM 530

课程对象（Audience）

Primarily for Graduates

开课教师（Teacher）

学期（Semester）

课程描述（Description））

Methods for introduction and modification of functional groups, formation and cleavage of bonds; selection and employment of protecting groups; control of stereochemistry; manipulation of polyfunctional molecules; design and use of selective reagents; and multistage syntheses are studied. These areas of study are illustrated with examples of outstanding achievements in the total synthesis of complex molecules.

课时信息（Totalhours）

教参信息（Textbookinfo）

1 The Synthetic Organic Chemist's Companion by Michael C. Pirrung (Paperback - July 10, 2007)

ISBN-13: 978-0470107072

世界各地拥有馆藏的图书馆（OCLC）:457

2 Name Reactions: A Collection of Detailed Mechanisms and Synthetic Applications by Jie Jack Li (Hardcover - Sept. 10, 2009)

ISBN-13: 978-3642010521

世界各地拥有馆藏的图书馆（OCLC）:80

3 The Synthetic Organic Chemist's Companion by Michael C. Pirrung (Paperback - July 10, 2007)

ISBN-13: 978-0470107072

世界各地拥有馆藏的图书馆（OCLC）:457

4 Organomagnesium Methods in Organic Chemistry (Best Synthetic Methods) by Basil J. Wakefield (Hardcover - Apr. 26, 1995)

ISBN-13: 978-0127309453

5 Theilheimer's Synthetic Methods of Organic Chemistry by G. Tozer-hotchkiss (Hardcover - Sept. 30, 2007)

ISBN-13: 978-3805584043

6 Analytical Pyrolysis of Synthetic Organic Polymers, Volume 25 (Techniques and Instrumentation in Analytical Chemistry) by erban Moldoveanu (Hardcover - Mar. 17, 2005)

ISBN-13: 978-0444512925

世界各地拥有馆藏的图书馆（OCLC）:65

7 Palladium in Heterocyclic Chemistry, Volume 26, Second Edition: A Guide for the Synthetic Chemist (Tetrahedron Organic Chemistry) by Jie Jack Li and Gordon W. Gribble (Hardcover - Dec. 23, 2006)

ISBN-13: 978-0080451169

世界各地拥有馆藏的图书馆（OCLC）:143

8 Compendium of Organic Synthetic Methods (Volume 12) by Michael Smith (Hardcover - Aug. 10, 2009)

ISBN-13: 978-0471445302

世界各地拥有馆藏的图书馆（OCLC）:747

9 Theilheimer's Synthetic Methods of Organic Chemistry 1998 by Alan F. Finch (Hardcover - Apr. 1998)

ISBN-13: 978-3805566957

10 Organic Chemistry: A Guided Inquiry by Andrei Straumanis (Paperback - July 2, 2008)

ISBN-13: 978-0618974122

世界各地拥有馆藏的图书馆（OCLC）:45

11 Practical Synthetic Organic Chemistry: Proven Reactions from the Chemical Literature by Stephane Caron (Hardcover - July 21, 2008)

ISBN-13: 978-0470037331

世界各地拥有馆藏的图书馆（OCLC）:7