课程代码（Coursenumber）：

263B.

课程名（Coursename）：

Synthetic Design II.

学分（credit)： (1)

课程设置（course setting）：Three hours of lecture per week for five weeks. 选课要求（prerequisite）：263A or consent of instructor.

课程描述（Description）： The principles of retrosynthetic analysis will be laid down and the chemistry of protecting groups will be discussed. Special attention will be given to the automated synthesis of biopolymers such as

carbohydrates, peptides, and proteins, as well as nucleic acids.

教参信息（Textbookinfo）:

1 Model-Based Design in Synthetic Biology (Chapman & Hall/Crc Mathematical & Computational Biology) by Alfonso Jaramillo (Hardcover - Mar. 26, 2010)

ISBN-13: 978-1420083552

世界各地拥有馆藏的图书馆（OCLC）:5

2 The Design of Synthetic Inhibitors of Thrombin (Advances in Experimental Medicine and Biology) by Goran Claeson, Michael F. Scully, Vijay V. Kakkar, and John Deadman (Hardcover - Jan. 31, 1994)

ISBN-13: 978-0306445934

3 Peptide and Protein Design for Biopharmaceutical Applications by Knud Jensen (Hardcover - Nov. 23, 2009)

ISBN-13: 978-0470319611

世界各地拥有馆藏的图书馆（OCLC）:56

4 Handbook of Materials for Product Design by Charles A. Harper (Hardcover - July 2, 2001)

ISBN-13: 978-0071354066

世界各地拥有馆藏的图书馆（OCLC）:191

5 Synthetic Fibers: Machines and Equipment, Manufacture, Properties : Handbook for Plant Engineering, Machine Design, and Operation by Franz Fourné (Hardcover - Nov. 30, 1999)

ISBN-13: 978-1569902509

6 Synthetic Socialism: Plastics and Dictatorship in the German Democratic Republic by Eli Rubin (Hardcover - Nov. 15, 2008)

ISBN-13: 978-0807832387

世界各地拥有馆藏的图书馆（OCLC）:138

7 Algorithms for Synthetic Aperture Radar Imagery: Proceedings : 6-7 April 1994 Orlando, Florida (Proceedings of Spie) by Dominick A. Giglio (Paperback - Apr. 1994)

ISBN-13: 978-0819415349

8 Vaccine Design by Fred Brown, G. Dougan, E. M. Hoey, and S. J. Martin (Hardcover - Aug. 17, 1993)

ISBN-13: 978-0471937272

9 Fabrics: A Guide for Interior Designers and Architects by Marypaul Yates (Hardcover - Apr. 2002)

ISBN-13: 978-0393730623

世界各地拥有馆藏的图书馆（OCLC）:353

10 Bionanodesign: Following Natures Touch (RSC Nanoscience and Nanotechnology) by Maxim Ryadnov (Hardcover - July 20, 2009)

ISBN-13: 978-0854041626

世界各地拥有馆藏的图书馆（OCLC）:82