课程代码（Coursenumber）：

CHEM BC 3355x

课程名（Coursename） ：

Biochemistry Laboratory Techniques

课程内容介绍（course content introduction）：Fundamental techniques, including colorimetric assays, SDS-PAGE, IEX chromatography, and enzyme kinetics, used to isolate and characterize various classes of biological molecules such as nucleotides, proteins, lipids, and carbohydrates. Theory and application of modern laboratory instrumentation, such as UV-Vis, GC-MS, and HPLC in the analysis of biological systems.

选课条件（Prerequisites）: Organic II lab (CHEM BC3333, BC3335, or equivalent) and quantitative analysis lab (BC3338, BC3340, or equivalent). Corequisites: Biochemistry (CHEM BC3282, CHEM C3501, or equivalent).

实验费用（Laboratory fee）：$45.

课程时间（course time）： Lecture: Tu 1:10-2:00; Laboratory two afternoons: Tu 2:00-6:00 and Th 1:10-5:00.

学分（credit）：5 points

教参信息（Textbookinfo）:

1 Biochemistry Laboratory: Modern Theory and Techniques by Rodney F. Boyer (Paperback - July 7, 2006)

Publisher: Benjamin Cummings; illustrated edition edition (July 7, 2006)

ISBN-13: 978-0805346138

世界各地拥有馆藏的图书馆（OCLC）:100

2 Techniques in Free Radical Research, Volume 22 (Laboratory Techniques in Biochemistry and Molecular Biology) by A.T. Diplock, M.C.R. Symons, and C.A. Rice-Evans (Paperback - Dec. 26, 1991)

Publisher: Elsevier Science; 1 edition (December 26, 1991)

ISBN-13: 978-0444813145

3 Inositol Phospholipid Metabolism and Phosphatidyl Inositol Kinases (Laboratory Techniques in Biochemistry and Molecular Biology) by A. Kuksis (Paperback - Sept. 26, 2003)

Publisher: Elsevier Science; 1 edition (September 26, 2003)

ISBN-13: 978-0444513045

世界各地拥有馆藏的图书馆（OCLC）:165

4 Dry Chemistry, Volume 25: Analysis with Carrier-bound Reagents (Laboratory Techniques in Biochemistry and Molecular Biology) by Oswald Sonntag (Paperback - Oct. 28, 1993)

Publisher: Elsevier Science; 1 edition (October 28, 1993)

ISBN-13: 978-0444814593

5 An Introduction to Radioimmunoassay and Related Techniques, Fifth Edition (Laboratory Techniques in Biochemistry and Molecular Biology) by T. Chard (Paperback - Nov. 20, 1995)

Publisher: Elsevier Science; 5 edition (November 20, 1995)

ISBN-13: 978-0444821195

6 Magnetic Cell Separation, Volume 32 (Laboratory Techniques in Biochemistry and Molecular Biology) by Maciej Zborowski and Jeffrey J. Chalmers (Hardcover - Nov. 15, 2007)

Publisher: Elsevier Science; 1 edition (November 15, 2007)

ISBN-13: 978-0444527547

世界各地拥有馆藏的图书馆（OCLC）:145

7 Applications of Hplc in Biochemistry (Laboratory Techniques in Biochemistry and Molecular Biology) (v. 17) by A. Fallon (Paperback - Oct. 1987)

Publisher: Elsevier Science & Technology; 1 edition (October 1987)

ISBN-13: 978-0444808639

8 Methods of Cell Separation (Laboratory Techniques in Biochemistry and Molecular Biology) by Paul T. Sharpe (Paperback - June 1988)

Publisher: Elsevier Publishing Company; 1 edition (June 1988)

ISBN-13: 978-0444809278

9 Sequencing of Proteins and Peptides (Laboratory Techniques in Biochemistry and Molecular Biology) (v. 9) by G. Allen (Hardcover - May 1989)

Publisher: Elsevier Science Ltd; 2 Rev Sub edition (May 1989)

ISBN-13: 978-0444810229

10 Hybridization With Nucleic Acid Probes: Theory and Nucleic Acid Probes (Laboratory Techniques in Biochemistry and Molecular Biology, Vol 24) by P. Tijssen (Paperback - Oct. 1993)

Publisher: Elsevier Science Pub Co (October 1993)

ISBN-13: 978-0444898838