课程代码（Coursenumber）：

CHEM G 4141x

课程名（Coursename） ：

Bioorganic Spectroscopy

课程内容介绍（course content introduction）：The combined use of UV/VIS, CD, IR, Raman, NMR in structural studies of natural products and interactions between ligands and their biopolymeric receptors. Application in biosynthesis. Various topics and techniques used in bioorganic chemistry, including photoaffinity labeling, G-protein coupled receptors, vision, memory, etc. Proton and carbon magnetic resonance; circular dichroism; combined usage with other spectroscopic methods as applied to structure determination of complex organic molecules.

开课老师（teacher）：- K. Nakanishi

选课条件（Prerequisites）: Elementary organic chemistry. Not offered in 2010-2011.

学分（credit）：4.5 points

教参信息（Textbookinfo）:

1 Electron Spin Resonance (Esr Applications in Organic and Bioorganic Materials : Proceedings of the First European Meeting, January, 1990, Lyon, Fran) by B. Catoire (Hardcover - May 1992)

Publisher: Springer (May 1992)

ISBN-13: 978-0387550244

2 Statistical Mechanics. Deformation. Ultrasonic Spectroscopy (Advances in Polymer Science) by R.B. Bird, S.V. Bronnikov, C.F. Curtiss, and S.Y. Frenkel (Hardcover - Apr. 30, 1996)

Publisher: Springer; 1 edition (April 30, 1996)

ISBN-13: 978-3540604839

3 Atomistic Approaches in Modern Biology (Topics in Current Chemistry) by Markus Reiher (Hardcover - Feb. 21, 2007)

Publisher: Springer; 1 edition (February 21, 2007)

ISBN-13: 978-3540380825

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4 Structure and Function of Biological Systems Under Extreme Conditions by Y. Taniguchi, H.E. Stanley, and H. Ludwig (Hardcover - Dec. 6, 2001)

Publisher: Springer; 1 edition (December 6, 2001)

ISBN-13: 978-3540659921

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