课程代码（Coursenumber）：

3A.

课程名（Coursename） ：

Chemical Structure and Reactivity.

学分（credit) ：(3) Students will receive no credit for 3A after taking 112A. 课程设置（course setting）：Three hours of lecture per week.

选课要求（prerequisite）:1A with a grade of C- or higher, or a score of 4 or 5 on the Chemistry AP test. Concurrent enrollment in 3AL required.

课程描述（Description）：Introduction to organic chemical structures, bonding, and chemical reactivity. The organic chemistry of alkanes, alkyl halides, alcohols, alkenes, alkynes, and organometallics. (F, S)

教参信息（Textbookinfo）:

1 Chemical Structure and Reactivity: An Integrated Approach by James Keeler and Peter Wothers (Paperback - July 15, 2008)

ISBN-13: 978-0199289301

世界各地拥有馆藏的图书馆（OCLC）: 152

2 Chemical Kinetics: From Molecular Structure to Chemical Reactivity by Luis G Arnaut, Sebastiao Jose Formosinho, and Hugh Burrows (Hardcover - Jan. 4, 2007)

ISBN-13: 978-0444521866

世界各地拥有馆藏的图书馆（OCLC）:169

3 An Ordering Concept on the Basis of Alternative Principles in Chemistry: Design of Chemicals and Chemical Reactions by Differentiation and Compensati (Reactivity and Structure) by P. Heimbach and T. Bartik (Hardcover - Jan. 1990)

ISBN-13: 978-0387511986

4 Metal Dihydrogen and -Bond Complexes - Structure, Theory, and Reactivity (Modern Inorganic Chemistry) by Gregory J. Kubas (Hardcover - Aug. 31, 2001)

ISBN-13: 978-0306464652

世界各地拥有馆藏的图书馆（OCLC）: 179

5 Modelling of Structure and Reactivity in Zeolites by C. R. A. Catlow (Hardcover - Nov. 1992)

ISBN-13: 978-0121641405

6 Molecular Structure and Energetics, Structure and Reactivity (Molecular Structure and Energetics, Vol 7) (Volume 7) by Joel F. Liebman and Arthur Greenberg (Hardcover - Jan. 10, 1989)

ISBN-13: 978-0471187233

7 Zeolite Microporous Solids: Synthesis, Structure, and Reactivity (NATO Science Series C: (closed)) by E.G. Derouane, Francisco Lemos, Claude Naccache, and Fernando Ramôa Ribeiro (Hardcover - Nov. 30, 1991)

ISBN-13: 978-0792315339

8 Modeling Structural Effects on Reactivities, Properties and Bioactivities by Statistical Methods (Wiley Series in Chemical, Computational, and Systems Biology) by Marvin Charton (Hardcover - July 6, 2010)

ISBN-13: 978-0470487495

世界各地拥有馆藏的图书馆（OCLC）:1

9 Quantum Mechanical Electronic Structure Calculations with Chemical Accuracy (Understanding Chemical Reactivity) by S. Langhoff (Hardcover - Feb. 28, 1995)

ISBN-13: 978-0792332640

10 Density Functional Theory of Molecules, Clusters, and Solids (Understanding Chemical Reactivity) by D.E. Ellis (Hardcover - Nov. 30, 1994)

ISBN-13: 978-0792330837