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This course is designed to introduce a full view of modern chemistry from all the aspects of the chemistry to the freshmen. The contents include the fundamental of chemical reaction, reaction rate, material structure, life science related organic chemistry and coordination chemistry, and so on, as well as the introduction of modern instrumental analytical methods like single crystal X-ray diffraction, chromatography, infrared spectroscopy, etc. The course is focusing on teaching the students the processes of learning knowledge of chemistry, the ideas and methods of scientific researches. The contents of this course have clear characteristic of current age and significant feature of multidiscipline cross-teaching.

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6 Fundamentals of Chemistry (5th Ed), DE Goldberg, McGrawHill Higher Education, 2007

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