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| **哈佛大学(**Harvard University) | [返回](http://59.72.66.9/services/wjzx/ktyj/mgdx.html) |
| **开课系Department of Chemistry and Chemical Biology** Incoming students should take advantage of Harvard’s Chemistry and Life Sciences Placement Test, as well as the science advising available in the Science Center the week before classes begin. Members of the Life and Physical Sciences departments will be available during this period to advise students. The Harvard Chemistry and Life Sciences Placement Test results recommend the appropriate starting level course for students interested in chemistry: Life and Physical Sciences A, Life Sciences 1a and/or Physical Sciences 1, or Chemistry 17/20.生命与自然科学A，生命科学1a，自然科学1，化学17/20,根据学生入学摸底考试成绩进入相应课程。 Life Sciences 1a and Physical Sciences 1 together satisfy the one year general chemistry requirement for medical school.“生命科学1a”和“自然科学1”两门课程满足普通化学进医学院的要求。[**Life and Physical Sciences A. Foundational Chemistry and Biology *-* (New Course)**](http://www.courses.fas.harvard.edu/3956) **化学与生物学基础**Catalog Number: 3956 This course introduces fundamental concepts in chemistry and biology. Topics in chemistry include stoichiometry, acids and bases, aqueous solutions, gases, thermochemistry, electrons in atoms, and chemical bonding. Topics in biology include the transfer of information from DNA to RNA to protein, genetic inheritance, mitosis and meiosis, cell structure and physiology, and natural selection.[**Life Sciences 1a. An Integrated Introduction to the Life Sciences: Chemistry, Molecular Biology, and Cell Biology**](http://www.courses.fas.harvard.edu/2137)（综合的介绍生命科学：化学，分子生物学，细胞生物学）Catalog Number: 2137 What are the fundamental features of living systems? What are the molecules that impart these features, and how do their chemical properties explain their biological roles? The answers to these questions form the basis for an understanding of the molecules of life, the cell, diseases, and medicines. In contrast with a traditional presentation of relevant scientific disciplines in separate courses, the above concepts are examined through an integrated presentation of chemistry, molecular biology, biochemistry, and cell biology framed within central problems such as the biology of HIV and cancer.[**Physical Sciences 1. Chemical Bonding, Energy, and Reactivity: An Introduction to the Physical Sciences**](http://www.courses.fas.harvard.edu/2225)**（化学键，能量和反应）**Catalog Number: 2225 Physical Sciences 1 engages the principles of chemistry and physics within major conceptual themes that underpin critical contributions of the physical sciences to societal objectives. In particular, the concepts central to chemical bonding, kinetic theory of molecular motion, thermochemistry, kinetics, equilibria, entropy and free energy, acids and bases, electrochemistry, and nuclear chemistry will be taught in the context of (1) world energy sources, forecasts and constraints, (2) global climate change, and (3) modern materials and technology. |