**医用化学与生物化学（一）（01.121.0.8）**

《医用化学与生物化学（一）》主要涉及医用化学的内容，介绍护理专业学生必须具备的化学知识，包括溶液的概念、浓度、电解质、缓冲溶液、渗透压等无机化学内容，各类有机化合物（如烃类、醛、酮、醇、酚、羧酸、胺类、复合功能基等）命名、结构与化学性质，以及与生命密切相关的生物分子如糖、脂、蛋白质和核酸的化学组成、结构与功能等内容。该课程的教学主要为后续的生物化学与其他医学基础课如生理、病理、药理等打下良好的化学基础，启发学生解决实际问题的思路和方法；同时培养学生具备一定的化学实验基本操作技能。

Medical Chemistry and Biochemistry(1) is a course to introduce essential chemical knowledge majored by nursing student. The first part of the course is the inorganic chemistry including the concept of solution, concentration, electrolyte, buffer solution and the osmotic pressure. The second part of the curriculum mainly introduces the elementary knowledge of organic compound such as hydrocarbon, aldehyde, ketone, alcohols, phenols, carboxylic acids, amine and complex functional groups. The biological molecules such as sugar, fat, protein and nucleic acid are also introduced in the textbook which are the third part. Medical chemistry will provide the necessary chemical knowledge for the following courses such as physiology, pathology and pharmacology and it will enlighten the students to think and solve the problems. Furthermore, the course may train the students to master some basic skills in chemical experiments.