**生物化学（18.044.0.1）**生物化学是一门从分子水平研究生命的化学组成及其在生命活动过程中化学变化的一门学科。本专业学生主要学习物质代谢内容，包括酶、维生素、生物氧化、糖代谢、脂类代谢、蛋白质分解代谢和核苷酸代谢，这是生物化学的核心内容，物质代谢的异常与疾病发生发展密切相关；还包括遗传信息的储存、传递、表达等内容，这部分内容在进一步认识生命现象的本质、诠释细胞分子变化与疾病发生发展的关系及从分子水平上对重大疾病的治疗预防提供科学依据和应对策略等方面具有非常重要的意义；此外还包括专题医学生化肝胆生化内容，这部分内容与临床医学的关系更加密切，引导学生学会用生化的理论去解释临床疾病发生发展的机理。

Biochemistry is a course to introduce the chemical structures and reactions in life activity. Material metabolisms are introduced in this course, including enzymes, vitamins, biological oxidation, sugar metabolism, lipid metabolism, protein catabolism and nucleotide metabolism, which is the core content of biochemistry. Metabolic abnormalities are associated with disease development. Genetic information is also introduced in this course, including store, expression and regulation of genetic information. This part interprets the cellular and molecular changes in relation with the development of the disease and treatment of major disease from the molecular level, and is important for further understanding of the essence of life. Special subjects for medical biochemistry are also introduced, including liver biochemistry. This part has close relationship with the clinical medicine to guide students to explain the mechanism of clinical disease with biochemical theory.