附件2

**武汉大学全英文授课课程信息表**

**Wuhan University Course Outline**

**School/Department: Wuhan University School of Basic Medical Sciences/Department of Biochemistry**

|  |  |
| --- | --- |
| **Course Name (Chinese)\*** | 生物化学 |
| **Course Name (English)\*** | Biochemistry |
| **Course Code\*** | 1000364 |
| **Availability\*** | **■**Semester 1 □Semester 2 |
| **Course Hours\*** | 96 |
| **Credits\*** | 5.0 |
| **Course Description\*** | Biochemistry is the study of structures and functions of biological molecules, processes and regulation of metabolism, and molecular mechanism and regulation of the transmission of genetic information in living organisms. Biochemistry investigates the chemical nature of the seemingly magical phenomenon of life at the molecular level. This course allows students to develop an understanding of the chemical nature of different physiological processes and molecular mechanism of pathological processes. Study of biochemistry will lay a solid foundation for future studies in clinic diagnosis and treatment. |
| **Course Objectives/Content\*** | This course focuses on biological molecules and chemical processes in human beings. Major topics include:①the structures and functions of cellular components such as proteins, carbohydrates, lipids, nucleic acids and other macrobiomolecules; ②metabolic pathway and controlling mechanism of substances such as carbohydrates,lipids and amino acids;③transmission of genetic information;④biochemical and molecular mechanisms of diseases. |
| **Teaching Methods** | Theory teaching (90 hrs), case discussion (6 hrs) |
| **Assessment\*** | Examination |
| **Textbook(s)** | 1. Zhao Bao Chang, Guan Yifu.《Biochemistry: A textbook for Medical Students》（Second Edition）Science publishing house. 2016 2. Robert K M, Daryl K G, Perer A M, et al.: Harper's illustrated Biochemistry(27th Edition), International Edition 2008 |
| **Reading** | 1. Richard A. Harvey, Pamela C. Champe. Lippincott's illustrated reviews : biochemistry 3ed edition. Philadelphia : Lippincott Williams & Wilkins,c2005. 2. Reginald H. Garrett et al，《Biochemistry》（Second Edition） 3. Rorbert K. Murray et al.《Harper’s Illustrated Biochemistry》(27th Edition) 4. Pamela C Champe.《Biochemistry》(3 Edition) lippincott's publishing house. 5. Alexander C. Brownie 《Master Medicine：Biochemistry》Oversea Publishing House 6. Allan Gaw. 《Clinical Biochemistry》Oversea Publishing House. |
| **Prerequisites** | Grasp the basic knowledge of Chemistry |
| **Lecturer(s)** | YU Hong, HE Chunyan, ZHANG Baifang, FAN Chengpeng, DU Fen, WANG Min, SHANG Liang, Miao Lixia |

注：\*为必填。