附件2

**武汉大学全英文授课课程信息表**

**Wuhan University Course Outline**

**School/Department:Second Clinical College**

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| **Course Name (Chinese)\*** | 肿瘤学 |
| **Course Name (English)\*** | Oncology |
| **Course Code\*** | 1000113 |
| **Availability\*** | □Semester 1 □√ Semester 2 |
| **Course Hours\*** | 36 |
| **Credits\*** | 2 |
| **Course Description\*** | Oncology, especially malignant oncology incidence and mortality have been increasing in China, making cancer the leading cause of death since 2010 and a major public health problem in the country. Much of the rising burden is attributable to population growth and ageing and to sociodemographic changes. Increasing evidences have showed that the biological behaviors of oncology are complex, which contribute to the failure of treatment. The hallmarks of cancer biological behaviors comprise six biological capabilities acquired during the multistep development of human tumors. The hallmarks constitute an organizing principle for rationalizing the complexities of neoplastic disease. They include sustaining proliferative signaling, evading growth suppressors, resisting cell death, enabling replicative immortality, inducing angiogenesis, and activating invasion and metastasis. Underlying these hallmarks are genome instability, which generates the genetic diversity that expedites their acquisition, and inflammation, which fosters multiple hallmark functions. Conceptual progress in the last decade has added two emerging hallmarks of potential generality to this list—reprogramming of energy metabolism and evading immune destruction. In addition to cancer cells, tumors exhibit another dimension of complexity: they contain a repertoire of recruited, ostensibly normal cells that contribute to the acquisition of hallmark traits by creating the ‘‘tumor microenvironment.’’ Recognition of the widespread applicability of these concepts will increasingly affect the development of new means to treat human cancer. |
| **Course Objectives/Content\*** | This course was determined to tell students the basic information about oncology, especially malignant oncology, including epidemiology, early-stage diagnosis and early-stage therapy methods of malignant oncology. The course contents are listed as following: (1) Early-stage diagnosis and early-stage therapy of malignant tumor; (2 Morbility and epidemiology of malignant tumor; (3) Clinical significance of tumor marks in malignant tumors; (4) Mechanisms of metastasis and disseminateion of malignant tumor; (5) New technics in the basical research of cancer; (6) Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy; (7) Cytoreductive Surgery and Hyperthermic Intraperitoneal Chemotherapy; (8) Biotherapy of malignant tumor; (9) Radiotherapy of malignant tumor; (10) Chemotherapy of malignant tumor; (11) "Multi- Discipinary Team" in the treatment of malignant tumor; (12) Palliative care of malignant tumor; (13) Application of Translational Medicine in the tumor research; (14) Pertinent literature and clinical study of Oncology. |
| **Teaching Methods** |   |
| **Assessment\*** | Examination would be performed to assess the extent that students get the knowledge. Based on the examination, major students have showed their knowledge about the biological behaviors of cancer, the diagnosis method and common treatment strategy.  |
| **Textbook(s)** |  |
| **Reading** |  |
| **Prerequisites** |  |
| **Lecturer(s)** |  |

注：\*为必填。