《系统工程》课程中英文简介

System Engineering

课程代码：080262B **Course Code：**080262B

课程名称：系统工程 **Course Name：**System Engineering

学时：32 **Periods：**32

学分：2 **Credits**：2

考核方式：考查 **Assessment：**Test

先修课程：无 **Preparatory Courses：**None

《系统工程》是现代科学技术基础之上发展起来的一门跨学科的[边缘学科](https://baike.baidu.com/item/%E8%BE%B9%E7%BC%98%E5%AD%A6%E7%A7%91/2515678)。

通过本门课程的教学，使学生掌握系统工程求解工程问题的一般方法，并能在多学科的复杂工程问题中应用。课程主要了解系统结构模型、动力学模型、评价模型和系统决策的相关内容。教学过程中，培养学生在掌握系统科学的思想、基本理论和基本方法，能够针对复杂系统建立模型并进行优化求解，最终形成系统决策。

“System engineering” is an interdisciplinary subject developed on the basis of modern science and technology.

Through the teaching of this course, students can master the general method of solving engineering problems in system engineering, and can apply it in complex engineering problems of multi disciplines. The course mainly includes system structure model, dynamic model, evaluation model and system decision-making. In the process of teaching, students are trained to master the ideas, basic theories and basic methods of system science, to be able to establish models and optimize solutions for complex systems, and finally make system decisions.