

课程编号：1713000580

课程名称：热学

学分/学时：2.5/40

先修课程：高等数学

适用专业：应用物理

课程性质：必修

教材：何丽珠、邵渭泉 编著. 热学（第一版）. 清华大学出版社, 2013 年

主要参考书：秦允豪 编著. 热学（第三版）. 高等教育出版社, 2011 年

内容简介：

热学是物理学的重要部分，是研究热现象的理论。对热现象的研究有两种理论，一种是宏观理论，称为热力学，是“原理性理论”；一种是微观理论，称为统计物理学，是“构造性理论”。作为四大力学之一的热学，是应用物理专业的一门重要必修基础课，它是自然科学的许多领域和工程技术的基础，与材料热力学等科目有着直接的关系，在科研生产实践中有着广泛的应用。

Course Description

College of Science

Course Code: 1713000580

Course Name: Calorific

Credit/Hours: 2.5/40

Textbooks: Li-Zhu He, Wei-Quan Shao. CALORIFICS (1st Edition). Tsinghua University Press. 2013.

Reference Books: Yun-Hao Qin. CALORIFICS (3rd Edition). Higher Education Press. 2011.

Course Description: CALORIFICS is a main part of physics and it is the theory of studying thermal phenomena. There are two kinds of theories in dealing with the thermal phenomena: one is macro-theory, called thermodynamic, the other is micro-theory, called statistical physics. The course is a necessary basic lesson for students whose major is applying physics, and this course is

also the base of other scientific areas, especially has a close relation with material mechanics.
The course has a wide applying in real life.