

课程编号：1713602550

课程名称：宇宙奥秘探索

学分/学时：2/32

先修课程：无

适用专业：全校各专业

课程性质：全校选修

教材：克里斯托弗·加尔法德 著. 极简宇宙史（第1版）. 上海三联书店, 2016

主要参考书：威尔登·欧文 著. 宇宙奥秘（第1版）. 朝华出版社, 2016

内容简介：

《宇宙奥秘探索》课程详尽介绍宇宙从诞生到发展过程中形成的宇宙现象、奇观。并通过现代化教学片和电脑模拟技术目睹肉眼难以看到的壮观宇宙空间的变化和宏大的天文奇观，包括日食、月食、彗星、流星雨、黑洞、星际碰撞、太阳黑子、极光、超新星爆发等壮观的天文景象。还可以了解到人类航天的风采，如万户飞天、载人航天、人类登月、空间站、中国航天等。本课程致力于文理互补、开阔学生视野，以通俗易懂、图文影视并茂的方法向学生展示一幅从宇宙大爆炸到人类形成约 140 亿年的宇宙的壮观发展过程。课程突出趣味性、真实性、科学性，知识性。开阔学生视野，激发学习兴趣，领略宇宙万物的魅力，培养科学素养。本课程通过现代化教学手段教学，加深记忆和理解，带来强烈的视觉震撼。

\*\*\*\*\*

#### Course Description

Course Code: 1713602550

Course Name: DISCOVERY OF UNIVERSE

Credit/Hours: 2/32

Textbooks: Christophe Galfard. The Universe in Your Hand. Shanghai Sanlian Store, 2016

Reference Books: Weldon Owen. Stars & Planets. Zhaohua Press, 2016

Course Description:

DISCOVERY OF UNIVERSE introduces some magnificent phenomena appeared since the

beginning of the universe. Using simulating technology in computer, we present a lot of brilliant scenes in the universe such as eclipse, comet, black holes, collision between stars, sun spot, aroma and outbreak of superstar. We also introduce some mysteries on earth such as UFO and Bermuda. The course is aimed at enlarging students' scope of knowledge and presenting the process of the universe development in an easily-understood and multimedia way. The characteristics of the course are interesting, true, scientific and knowledgeable. Students can learn knowledge of the universe in an interesting way. We use CAI to give students an impressive feel.