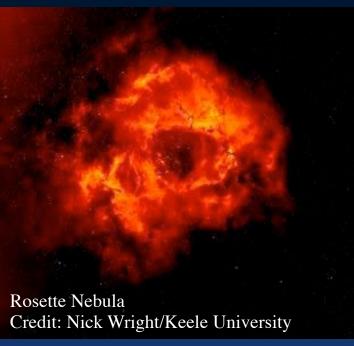
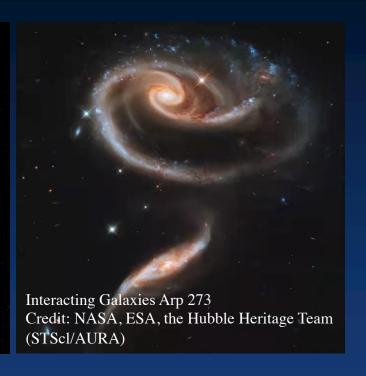
Introduction to Astronomy 天文学通识课

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虎年快乐 & Welcome to the Universe!







课程设置和评分

学习目标:

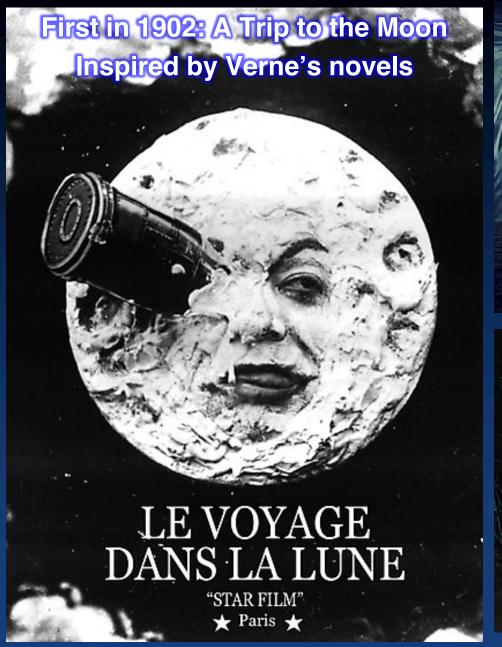
This course is to provide basic knowledge in astronomy and to introduce scientific thinking method. At the end of this course, you will be able to:

- Describe the scope of astronomy and astrophysics.
- Explain how the scientific reasoning and quantification methods are applied in astronomy.
- Tell the difference between science and fantasy in science fiction.
- Present an argument and support it with evidence, proof, and/or examples.

评分机制:

- 20% Attendance + 10% Involvement + 70% Term Project
- Term Project: 以2-3人为一组,阅读一本天文学相关的硬科幻小说,区分科学和幻想部分,就2-3个关键点评论其可靠性并提供论据,提交一篇论文并完成10分钟演讲。或者设计一个天文学科普艺术品,提供其背景陈述论文,完成10分钟科普演讲。

From Science Fiction to Exploration

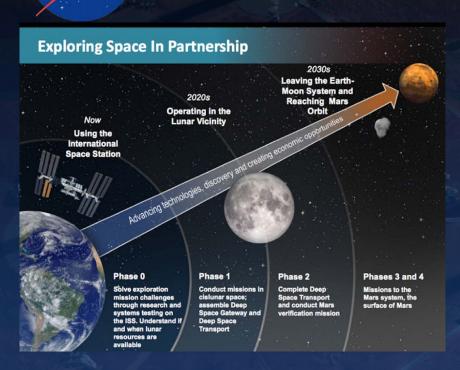


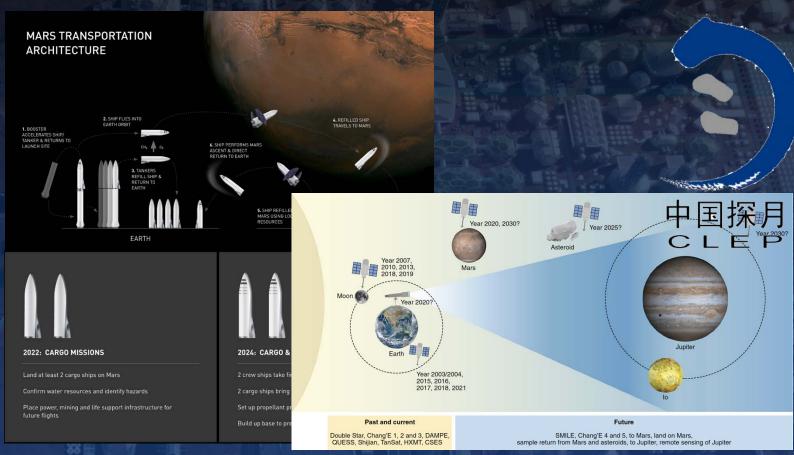


Human Deep-Space Exploration and Long-term Base

Moon to Mars Plan







Wei et al., Nature Astro, 2018

Understanding surface and inner structure of planets is the first step to explore resources and establish research/colonization bases.

Class	Date	Topics	
I	2/17	Welcome to the Universe!	
2	2/24	Inner Solar System	
3	3/3	Outer Solar System	
4	3/10	Sci-Fi: Science and Fantasy	
5	3/17	We Are Stardust	
6	3/24	Galaxy	
7	3/31	Einstein's Universe	
8	4/7	Search for life	
9	4/14	Final Presentations	
10	4/21	Final Presentations	
	TBD	Stargazing Activity	



Two things fill the mind with ever-increasing wonder and awe, the more often and the more intensely the mind of thought is drawn to them: the starry heavens above me and the moral law within me.

(Immanuel Kant)



