

# Intermediate Space Science Syllabus (Summer 2022)

**Course Aims:** The Intermediate Space Science Course is an intensive, 6-week long course that aims to prepare students for the NSB High School Regional and Middle School National Competitions. This course will teach the topics that most frequently show up in the Space Science subcategory and topics in the Energy category, which pertain to astronomy. Students should note that the course will be rigorous and fast-paced, but if one puts in the work, they will see significant improvement in their astronomy knowledge and Science Bowl skills.

**Prerequisites:** None

## What's Included:

- Weekly lectures on Zoom
- List of recommended reading material and supplemental resources
- 1-on-1 advising about study planning (by appointment)
- Access to exclusive discord server
- Seminars about study tips, buzzing strategies, teamwork skills
- Weekly Office Hours
- Flashcard sets on important topics
- Packet readings to test retention of course material

<b>Week 1:</b> July 20th 5-7 pm PDT	Inner Planets: Mercury, Venus, Moon, Mars Outer Planets: Jupiter, Saturn, Uranus, Neptune
<b>Week 2:</b> July 27th 5-7 pm PDT	Asteroids, Comets, Kuiper Belt Objects Astrophysics: Kepler's Laws, Eclipses, Luminosity, Telescopes
<b>Week 3:</b> August 3rd 5-7 pm PDT	Spectroscopy + Light The Sun + HR-Diagram
<b>Week 4:</b> August 10th 5-7 pm PDT	ISM+ Star Formation Stellar Evolution
<b>Week 5:</b> August 17th 5-7 pm PDT	Supernovae, Compact Objects Galaxies I
<b>Week 6:</b> August 24th 5-7 pm PDT	Galaxies II Cosmology

Note: If you are unable to attend a lesson, we can send you a recording of the lecture

