	Classes begin		
	Jan 12, 2017 Course organization; Goals of Astrobiology, Life in the Universe, Timescales, Size scales		
Formation of Habitable Planets	Jan 17, 2017 Basics of Biochemistry: metabolism, photosynthesis, energy, water,		
	Jan 19, 2017 Conditions for Life as we know it; Limits of life and their biophysical basis;		
	Jan 24, 2017 Habitable Environments in the Galaxy, introduction to habitability and the Habitable Zone		
	Jan 26, 2017 Initial conditions for planet formation: constraints from the solar system		
	Jan 31, 2017 Fragmentation, Collapse, Angular Momentum Conservation		
	Feb 2, 2017 Accretion disk structure and evolution: accretion, viscosity sources, dead zones, irradiation & flaring		
	Feb 7, 2017 Particle growth: from sub-micron to km+ sizes		
	Feb 9, 2017 Late stages of planet formation: oligarchic growth, atmosphere accretion		
	Feb 14, 2017 Moon formation; Nice model: fine-tuning the solar system; late heavy bombardment		
Habitable Planets	Feb 16, 2017 Delivery of water and volatiles to terrestrial planets		
	Feb 21, 2017 Habitable Planets - Physical principles setting the limits of life; phase diagram for water, other solvents		
	Feb 23, 2017 Basics of planetary atmospheres Bond Albedo and equilibrium temperature,		
	Feb 28, 2017 Accretion heat and radioactive decay; Greenhouse effect		
	Mar 2, 2017 Project Discussion; Planetary Atmospheres: Adiabatic lapse rate, pressure profiles		
	Mar 7, 2017 Exoplanets: Detection Techniques: RV, transit, direct imaging, microlensing, transit timing, astrometry		
	Mar 9, 2017 Explanet Populations: RV and Kepler census, planet frequency vs. size and host star mass, super-earth, super-jupiters. etc.		
	Mar 14, 2017 Spring Break		
	Mar 16, 2017 Spring Break		
	Mar 21, 2017 Mars: Planetary properties, geography, Mars exploration		
	Mar 23, 2017 Mars: Search for life, Viking experiments		
	Mar 28, 2017 Icy Moons: Tidal heating, Europa, Enceladus		
	Mar 30, 2017 Titan		
	Apr 4, 2017 Climate feedbacks; Earth as a planet: orbital and physical properties, atmospheric composition;		
Exoplanets	Apr 6, 2017 Earth Evolution: atmospheric evolution, Milankovitch cycles, Venus, internal energy sources and plate tectonics		
	Apr 11, 2017 Exoplanet Characterization: Transit Spectroscopy, Imaging		
	Apr 13, 2017 Exoplanet Atmospheres and Interiors; mass-radius relationship, clouds, equilibrium/non-equilibrium chemistry		
	Apr 18, 2017 Biosignatures I - Earth as an exoplanet		
	Apr 20, 2017 Future Exoplanet Missions		
	Apr 25, 2017 Astrobiology-driven planetary missions and concepts - Future Searches for Life in the Solar System; Physics of Space Travel		
	Apr 27, 2017 Project Reviews		
	May 2, 2017 Project Reviews		