

		LEGEND																
		Robotics/ Rocketry/Engineeri	Astrobiology/ Life Sciences	Invited speakers	Other													
		tours/field trip	hands-on activities			* Each cell denotes 1 hr block, class duration: 50 min												
		WEEK 1					WEEK 2											
		Friday 06/10	Monday 06/13	Tuesday 06/14	Wednesday 06/15	Thursday 06/16	Friday 06/17	Saturda 06/18	Sunda 06/19	Monday 06/20	Tuesday 06/21	Wednesday 06/22	Thursday 06/23	Friday 06/24	Saturday 06/25	Sunday 06/26		
8-9	Arrival at Center/Sign-in/Badging	Origin of Universe -Tori Hoehler	Origin of Life -Erich Fleming	DNA Extraction Lab -A. Lopez & J. Garcia	Mars -Alfonso Davila	Field Trip to Lassen Volcanic National Park					Lego Robotics Intro and Workshop [X. Miguelez]	INSPIRE Program - Bill Warmbrodt	Robotics Workshop [X. Miguelez]	Rocket Workshop [Miguelez, Gallardo]	Rocket Launch [Miguelez, Gallardo, Zavaleta]			
9-10	Welcome to STEP & Team assignment	Origin of Universe, Solar System- cont'd Tori Hoehler	Life Support - John Hogan	DNA Extraction Lab -A. Lopez & J. Garcia	Mars-From Viking to Phoenix - Richard Quinn						Robotics Workshop [X. Miguelez]	STK Workshop [X. Miguelez]	Robotics Workshop [X. Miguelez]	Rocket Workshop [Miguelez, Gallardo]	Rocket Launch [Miguelez, Gallardo, Zavaleta]			
10-11	Introduction to Astrobiology - Carl Pilcher	Mars -Alfonso Davila	Microbes and NASA - Brad Bebout	DNA Extraction Lab -A. Lopez & J. Garcia	Identify the gene/organism workshop + review -Oana Marcu						Satellites and Applications [B. Gallardo]	Robotics Workshop [X. Miguelez]	Robotics Workshop [X. Miguelez]	Rocket Workshop [Miguelez, Gallardo]	Rocket Launch [Miguelez, Gallardo, Zavaleta]			
11-12	Safety Training - Wenonah Vercoutere	Small Sats Tony Ricco	Tour of Microbial Ecology Biogeochemistry Research Lab - Bebout	Light Interactions with Matter II - Nathan Bramall	Mars-CheMin David Blake						Intro to STK - STK Workshop [X. Miguelez]	Robotics Workshop [X. Miguelez]	Visit to N245 machine shop	Rocket Workshop [Miguelez, Gallardo]	Rocket Launch [Miguelez, Gallardo, Zavaleta]			
12pm	Lunch		Microbial Lunch	Scott Sandford with Telescope/Lunch	Lunch						Lunch	Lunch	Short Lunch, 12:30-1:10	Lunch		Student Presentations at Exploration Center		
1-2	History of NASA and Ames aeronautics - - Bill Warmbrodt	Astro Wheel Lab - Monika Kress (Kepler)	Make your own Microbial Mat	Light Interactions with Matter I - Nathan Bramall	Lipid Biomarkers- Niki Parenteau	Orbital Mechanics [K. Bilimoria]	Spacecraft Design (J. Zavaleta)	NASA's Earth Sciences [K. Shiffer]	Rocket Workshop [Miguelez, Gallardo, Zavaleta]		Robotics Competition [Miguelez, Gallardo, Zavaleta]							
2-3	Wind Tunnel Tour / Tour of UH-60 aircraft hangar- - Bill Warmbrodt, & GROUP PHOTO	Tour of NASA Advanced Supercomputing (NAS) Facility	Microscopy of Make-a-Mats and other	Spectroscopy Lab Nathan Bramall	Extremophile Lab -Niki	VMS/FFC/CVSRF Tour - Girish Chachad(N262, FFC court yard)	Space Mission Design [K. Bilimoria]	RockSim Intro n Rocket Workshop [J. Zavaleta] (Review 15min)	Rocket Workshop [Miguelez, Gallardo, Zavaleta]		Closing ceremony							
3-4	Teacher Mtg/ Students at Exploration Center for Uniview with Don Ritchie	Kepler Mission Operations Center Tour	Teamwork -Dave Paul	Moons: Europa, Titan, Enceladus - Chris McKay	Extremophile Lab cont'd -Niki	VMS/FFC/CVSRF Tour	Robotics Workshop [X. Miguelez]	Rocket Workshop [Miguelez, Gallardo, Zavaleta]	Rocket Workshop [Miguelez, Gallardo, Zavaleta]									
4-5	Titan 1 Rocket / Teacher Meeting	Intro of course outline and expectations/Lab books and materials/Pre-course evaluation	Payload Lab - Brad/Oana + review I	Payload Lab - Brad/Oana + review I	AstroQuiz-30 min Prep for Lassen. Field Notebooks (30 min)	Review-30min Student Presentation Prep Time	Robotics Workshop [X. Miguelez]	Rocket Workshop [Miguelez, Gallardo, Zavaleta]	Rocket Workshop [Miguelez, Gallardo, Zavaleta]									