

		Monday, June 12				
		June 12 - 14: Electronic Theory and Projects (Ohm's Law, Electronic projects, Circuit Design, etc.)				
Set Up and Preparation		Time	Minutes	Activity	Leaders	Comments
Set Up Lab for soldering activity - equipment and PPT		7:30 - 8:00	30	Breakfast: Burritos from Golden Pride Roll Call -- Welcome - Daily Agenda Overview	Newman and Ripley	
Prepare handouts		8:00 - 10:00	120	Purpose of Electronics Course /Overview - CNM/APS Syllabus - Motivation/STEM Careers - FCC Technician's License	Newman	Handouts regarding Overview
Prepare Inventories		10:00 - 10:15	15	Break		
		10:15 - 12:15	120	Leadership Style and Learning Style Inventories	Ripley	
		12:15 - 12:45	30	Lunch: Pizza from Dion's		Ripley: Document results and prepare cards of results for Engineering Notebooks
		12:45 - 2:30	105	30 min: Results of Inventories 60 min: Electronic Kits PPT and assign teams	Newman: PPT Ripley: Assign Kit Teams	
		2:30 - 3:00	30	Soccer Teams Formed and 15 min break		
Theory: 120 mins		3:00 - 5:00	120	Basic Soldering PPT and Soldering Practice Lab	Ed Poccia - Presenter Joe Martinez - Mentor	Need 1 additional Volunteer
		5:00 - 5:30	30	Take Home Pre-Test - take home permission slip for Field Day Camping Trip - review tomorrow's agenda - complete exit slip	Newman and Ripley	

Tuesday, June 13				
June 12 - 14: Electronic Theory and Projects (Ohm's Law, Electronic projects, Circuit Design, etc.)				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Bagels and Fruit - Daily agenda overview - turn in Pre-test	Ripley	
8:00 - 10:00	120	Theory: Basic Electronics (T5)	Connor Neal	Notes Template
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Applied Theory: Exploration of electronic theory through observation and measurement (Ohm's Law)	Connor Neal	
12:15 - 12:45	30	Lunch: Fajitas		
12:45 - 2:30	105	Theory: Ohm's Law - calculating Values using Ohm's Law - Ohm's Law and Soccer	Connor Neal and Ripley	Notes template ad Soccer handout
2:30 - 3:00	30	Soccer Activity		
3:00 - 5:00	120	Applied Theory: Begin electronic Kit Projects	Connor Neal Ed Poccia Joe Martinez	1 additional volunteer
5:00 - 5:30	30	Homework T1: FCC Rules - review tomorrow's agenda - complete exit slip	Newman and Ripley	Handout for T1 - flashcards

Wednesday, June 14				
June 12 - 14: Electronic Theory and Projects (Ohm's Law, Electronic projects, Circuit Design, etc.)				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Breakfast Casserole - Daily agenda overview - Quiz over T1 and T5	Ripley	
8:00 - 10:00	120	Theory: Review Ohm's Law and Introduction to Electrical components and Circuit Design	Connor Neal	Notes Template
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Lab: Build simple circuits - AC/DC Circuits (T6)	Connor Neal Ed Poccia	2 volunteers
12:15 - 12:45	30	Lunch: Tacos		
12:45 - 2:30	105	Lab: complete Electronic Kits	Connor Neal Ed Poccia	Take pictures of teams with projects
2:30 - 3:00	30	Soccer		
3:00 - 5:00	120	Team work: Jigsaw groups 1: T1 - Lead Student 2: Ohm's Law - Connor 3: T6 - Lead Student		
5:00 - 5:30	30	Homework Take home Quiz over T4 and T6 review tomorrow's agenda - complete exit slip	Newman and Ripley	Handout for T4/T6 - flashcards

Thursday, June 15				
June 15 and 16: Skills Rotations (communications, HAB Intro Space Industry, Media Manipulation)				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Donuts and Danish - Daily agenda overview - Review Take Home Quiz	Ripley	
8:00 - 10:00	120	Rotation 1: Satellite Systems	Sandy	Notes Template
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Rotation 2: Data Analysis	Newman	Notes Template
12:15 - 12:45	30	Lunch: Sandwiches		
12:45 - 2:30	105	Lab: complete Electronic Kits - short team presentation	Connor Neal Ed Poccia	Take pictures of teams with projects
2:30 - 3:00	30	Soccer		
3:00 - 5:00	120	Continue with team presentations		
5:00 - 5:30	30	Homework: Take-home Quiz covering T1, T4, T5, T6 -review tomorrow's agenda - exit slip	Newman and Ripley	

Friday, June 16				
June 15 and 16: Skills Rotations (communications, HAB Intro Space Industry, Media Manipulation)				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Waffles - Daily agenda overview - Review Take Home Quiz	Ripley	
8:00 - 10:00	120	Rotation 1: Oral Communications (Organizing for Speech)	Ed Henry	Notes Template
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Rotation 2: Rockets/Space/Space X	Sandy	Notes Template
12:15 - 12:45	30	Lunch: Baked Potatoes		
12:45 - 2:30	105	Rotation 3: Media Manipulation	Newman	
2:30 - 3:00	30	Soccer Tournament		
3:00 - 5:00	120	Rotation 4: Introduction to Engineering Notebook	Sandy	
5:00 - 5:30	30	Homework: review Monday's agenda - exit slip	Newman and Ripley	

Monday, June 19				
Electronic Theory and Review Sessions (Inductors, Magnetism, Frequencies, Antennas)				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Sausage Biscuits - Daily agenda overview	Ripley	
8:00 - 10:00	120	Review - Electric Theory from Day 2 & 3 - give Quiz - review Quiz Results	Connor Neal	
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Theory: Antenna Systems, Tracking Systems, APRS/GPS/CW Beacons	Ed Poccia	Bill Ripley and 2 additional volunteers
12:15 - 12:45	30	Lunch: Pizza		
12:45 - 2:30	105	Lab: Build Satellite Tracking Antenna	Ed Poccia Bill Ripley	Bill Ripley and 2 additional volunteers
2:30 - 3:00	30	Basketball		
3:00 - 5:00	120	Theory: Inductors, Magnetism and Frequencies	?	
5:00 - 5:30	30	Homework: Take home Quiz over T2, T3, T7 review tomorrow's agenda - exit slip	Newman and Ripley	Provide ISS Overflight Schedule

Tuesday, June 20				
June 20 - 23: Proof of Concept LAB (Proof-of-Concept Project Preparation)				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Bagels and Fruit - Daily agenda overview - Review take home quiz	Ripley	
8:00 - 10:00	120	Theory: Semiconductors and Op Amps	?	
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Radio Waves Part 1	Bill Ripley	Notes Template
12:15 - 12:45	30	Lunch: Pizza		
12:45 - 2:30	105	Radio Waves Part 2	Bill Ripley	
2:30 - 3:00	30	Basketball		
3:00 - 5:00	120	Theory: Introduction to Satellite Components - Introduction to Proof-of-Concept Projects	?	System 1-5 Mentors
5:00 - 5:30	30	Homework: Take home Quiz over T8 and T9 review tomorrow's agenda - exit slip	Newman and Ripley	
5:30 - 7:00	90	Engineer Mentors meet for Proof of Concept Project Planning		

Wednesday, June 21				
June 20 - 23: Proof of Concept LAB Electronic Theory (semiconductors and radio waves)				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Breakfast Casserole- Daily agenda overview - Review take home quiz	Ripley	
8:00 - 10:00	120	Theory: Project Management	Karen Kinsman	
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Proof of Concept Overview - 5 teams lead by Mentor Engineers	Bill Ripley - Overview	System 1-5 Mentors
12:15 - 12:45	30	Lunch: Baked Potatoes		
12:45 - 2:30	105	25 min rotations: 1: Engineering Notebook 2: Project Analysis 3: Drawings to clarify 4: KWL Chart	1: Sandy 2: Beyer 3: Newman 4: Ripley	
2:30 - 3:00	30	Basketball		
3:00 - 5:00	120	Produce Written Plan for Proof of Concept Project	Bill Ripley Beyer Ed Poccia	System 1-5 Mentors
5:00 - 5:30	30	Pass out Engineering Notebooks and supplies - Overview- tomorrow's agenda - exit slip	Newman and Ripley	Pass out Engineering Notebook Rubric - Homework: students set up Notebook

Thursday, June 22				
June 20 - 23: Proof of Concept Lab				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Breakfast Donuts and Danish- Daily agenda overview	Ripley	
8:00 - 10:00	120	Proof of concept Teamwork	Engineer Mentors	System 1-5 Mentors
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Introduction to FCC License Testing	HDARC	System 1-5 Mentors
12:15 - 12:45	30	Lunch: Tacos		
12:45 - 2:30	105	Proof of Concept Teamwork	Engineer Mentors	System 1-5 Mentors
2:30 - 3:00	30	Basketball		
3:00 - 5:00	120	Proof of Concept Teamwork	Engineer Mentors	System 1-5 Mentors
5:00 - 5:30	30	Turn in Engineering Notebooks for status check - exit slip	Newman and Ripley	

Friday, June 23				
June 20 - 23: Proof of Concept Lab				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Breakfast Pancakes- Return Engineering Notebooks with comments - Daily agenda overview	Ripley	
8:00 - 10:00	120	Proof of concept Teamwork	System 105 Mentors	
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Introduction to Coding: Scratch.org	Bonnie LaCourt	
12:15 - 12:45	30	Lunch: Hamburgers		
12:45 - 2:30	105	Begin Poster Projects	System 1-5 Mentors	
2:30 - 3:00	30	Basketball	System 1-5 Mentors	
3:00 - 5:00	120	Proof of Concept Teamwork/Posters	System 1-5 Mentors	
5:00 - 5:30	30	Homework: Update Engineering Notebooks - go Field Day Camping trip agenda	Newman and Ripley	

Saturday and Sunday, June 24 and 25

Who

What

When

Where

Why

Students enrolled in the Dual Credit Electronics Course

Volunteer Camping trip to Cochiti Lake

Leave Friday evening after class

Cochiti Lake

Students experience getting "on the air" and contacting radio amateurs within the U.S. Regions

4 Volunteers from High Desert Amateur Radio Club

Students will participate in the Annual Amateur Radio Emergency Preparedness Drill/Activity

Equipment set up: Saturday

students will learn about rapid deployment of radio communications equipment in rugged environments

Sergeant Newman

Students will operate various stations as part of the weekend

Emergency Preparedness Drill is from 6:00 PM Saturday until 6:00 PM Sunday

students will learn about the use of emergency and alternative power sources

Alma Ripley
Bill Ripley

Students will practice Phonetic alphabet

Monday, June 26				
Field Testing Projects				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Bacon and Eggs- Daily agenda overview	Ripley	
8:00 - 10:00	120	Work on Projects	Engineer Mentors	
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Work on Projects	Engineer Mentors	
12:15 - 12:45	30	Lunch: Sandwiches		
12:45 - 2:30	105	Work on Projects	Engineer Mentors	
2:30 - 3:00	30	Activity TBD		
3:00 - 5:00	120	FCC License Practice Test	HDARC	
5:00 - 5:30	30	Homework: Update Engineering Notebooks - Take FCC Practice Test - report results tomorrow - go over tomorrow's agenda	Newman and Ripley	

Tuesday, June 27				
June 27-28: HAB Missions (FCC Exam and Poster Presentations)				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Bagels and Fruit - - Daily agenda overview	Ripley	
8:00 - 10:00	120	Work on Projects/Presentation Preparation	System 1-5 Mentors	
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Work on Projects/Presentation Preparation	System 1-5 Mentors	
12:15 - 12:45	30	Lunch: Pizza		
12:45 - 2:30	105	FCC License Testing	Marty Soffran: Lead Examiner msoffran@gmail.com Patrick Lopez: 10pclopez10@gmail.com Jim Kajder: jkajder@gmail.com	
2:30 - 3:00	30	Activity TBD		
3:00 - 5:00	120	FCC License Testing/Projects	HDARC	
5:00 - 5:30	30	Homework: Update Engineering Notebooks - send home invitations for Wednesday's PAC Presentations, Thursday's HAB Launches and Friday's Graduation Luncheon go over tomorrow's agenda	Newman and Ripley	

Wednesday, June 28				
June 27-28: HAB Missions (FCC Exam and Poster Presentations)				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Breakfast Burritos - Daily agenda overview	Ripley	
8:00 - 10:00	120	Bench Testing - Ground Testing - Field Testing of Proof of Concept projects	System 1-5 Mentors	
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Bench Testing - Ground Testing - Field Testing of Proof of Concept projects	System 1-5 Mentors	
12:15 - 12:45	30	Lunch: Tacos		
12:45 - 2:30	105	Presentations - PAC		
2:30 - 3:00	30	Presentations - PAC		
3:00 - 5:00	120	Presentations - PAC		
5:00 - 5:30	30	Homework: Update Engineering Notebooks (turn them in tomorrow morning for final grade) - go over tomorrow's agenda	Newman and Ripley	

Thursday , June 29				
Data Analysis, Poster Presentations, Make Up Exams				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Waffles - Daily agenda overview	Ripley	
8:00 - 10:00	120	HAB Flights		
10:00 - 10:15	15	Break		
10:15 - 12:15	120	HAB Flights	System 1-5 Mentors	
12:15 - 12:45	30	Lunch: Tacos		
12:45 - 2:30	105	Compete Engineering Notebooks - turn in for final grade		
2:30 - 3:00	30	Activity		
3:00 - 5:00	120	HAB Flights		
5:00 - 5:30	30	Go over tomorrow's agenda	Newman and Ripley	

Friday, June 30				
Graduation and Luncheon				
Time	Minutes	Activity	Leaders	Comments
7:30 - 8:00	30	Breakfast: Waffles- Daily agenda overview - Pass out Engineering Notebooks and Presentation Grades	Ripley	Total Hours of Theory: 52 hours
8:00 - 10:00	120	Overview of next year's Dual Credit Course (NM-RADSAT-1 Prototype	Newman	
10:00 - 10:15	15	Break		
10:15 - 12:15	120	Graduation - PAC		
12:15 - 12:45	30	Luncheon: BBQ Catered - in Cafeteria		
12:45 - 2:30	105	All students - restore classrooms, labs, PAC, Cafeteria		
2:30 - 3:00	30			
3:00 - 5:00	120			
5:00 - 5:30	30			