

INSIGHT GK-12 Summer Institute - 2014

Kansas State University

Version 5/19/2014

	Mon, June 2	Tues, June 3	Wed, June 4	Thur, June 5	Fri, June 6
TIME	Nichols Hall 126	Nichols Hall 126	Nichols Hall 126	Nichols Hall 126	Nichols Hall 126
8:30-9:00	Travel time	Pair Fellows & Teachers Petals around a rose (Jackie Spears)	NXT Robots with Enchanting (Justin Frazier)	Soils Testing Lab Tour (Robert Florence) (Throckmorton 1017)	Diversity in the Classroom
9:00-9:30		Challenge Course Low-Ropes Course (High-Ropes Course for returning fellows and teachers) (Nathan)	Global Positioning System (GPS) (Justin)		Sensors and Gaming Software (Nathan Bean) Interfacing with WiiMotes
9:30-10:00				Reading GPS Data using LabView (Justin)	
10:00-10:30			Break	Round robin brainstorming session	
10:30-10:45			GPS Outdoor Test (Justin Frazier)		Break
10:45-11:00			Google Earth and Post- Processing GPS Data	WiiMotes Physics (Joseph Heier)	Teacher/Fellow Planning Time - develop a new module to present next week
11:00-11:30			Lunch on your own	Working Lunch - N126 (3D Printer - Ethan)	Working Lunch (N126) (Bette Grauer)
11:30-12:00		Working Lunch - N126 (QuadCopter - Tobias?)		Working Lunch (N126) (Bette Grauer)	
12:00-1:00	Introductions - Who's Who	Intro to Programming using Scratch (Russ/Josh/Scott)	Crossbow Motes (Gurdip Singh)	Droid Apps and NXT (Joseph Heier)	Travel time
1:00-1:30	Fellows & Teachers		Augmented Reality Video Tracking (Nathan Bean)		
1:30-2:00	Take Assessments		Break	Break	
2:00-2:30	Break	Break	Break		
2:30-2:45	INSIGHT GK-12	Writing an AI in Scratch (Josh Weese)	Fellows Introduce Their Research	Parallel Programming Beocat Computing Cluster Raspberry Pi (Dan Andresen)	
2:45-3:00	Q&A Breakout Sessions	Scratch Programming Lab	Teacher/Fellow Brainstorming Time	Dining Philosophers Scratch Activity (Josh Weese)	
3:00-3:30	Reflections slide show (Ceaven/Merv)	Graphing Program in Scratch (Justin Frazier)	(w/ reporting requirement)	Fellows and Teachers Develop New Lessons	
3:30-4:00	Reception in Atrium				
4:00-4:30					

Carol Shanklin, Gary
Clark, Debbie Mercer

Bowling

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	Mon, June 9	Tues, June 10	Wed, June 11	Thur, June 12	Fri, June 13
TIME	Nichols Hall 126	Nichols Hall 126	Nichols Hall 126	Nichols Hall 126	Nichols Hall 126
8:30-9:00	Travel time	Ethics & Professionalism in the Classroom	Teacher/Fellow Planning Time	Travel to Konza	Presentation of Module Ideas - Fellows/Teachers
9:00-9:30		Travel to Seaton Hall	Fellow Presentations with Feedback	Konza Prairie Day (Sensors used on the prairie - Patrick O'Neal) (eddy covariance flux towers and USGS stream sensors)	
9:30-10:00		Precision Ag Technologies			Logistics Planning Session
10:00-10:30		(Dr. Ajay Sharda)			
10:30-10:45		Break (S133)	Break	Break	Break
10:45-11:00		Data Acquisition Systems	Fellows Presentations with Feedback	Konza Prairie Day (sensors near HQ)	Wrap-Up Session
11:00-11:30		(Ike/Haiyang)			
11:30-12:00				Travel back to campus	Packing Time
12:00-1:00	Lunch on your own	Working Lunch (S133) (pyDAQtools - Mitch)	Working Lunch (N126) (Fellow Feedback)	Working Lunch (N126) (Chardie Baird)	The END! Have a safe trip home, and enjoy the rest of your summer.
1:00-1:30	Designing Lessons	ASABE Robotics Competition (Justin/Jed)	Brainstorming Time	CPS at NSF	
1:30-2:00	Standards-Based Teaching		Example Module Squishy Dough Circuits (Josh Weese)	(Gurdip Singh?)	
2:00-2:30	Lesson Planning Time	Arduino (Justin/Jed)		CyberPhysical Systems EMG Sensors (Mitch Neilsen)	
2:30-2:45	Break	Break (S133)	Break	Break	
2:45-3:00	Journaling and Feedback during the Academic Year	Arduino Lab Exercise (Justin/Jed)	Lesson Planning Time	Sifteo	
3:00-3:30	TeachEngineering.org (log in and make a new journal entry)		Travel to BRI	(Nathan Bean)	
3:30-4:00			BRI Tour (Will Baldwin)	Kinect 3D (Justin Frazier)	
4:00-4:30	Common Core - Math+CS	Travel to Nichols Hall			

Discovery Center