



Rutgers 4-H STEM Ambassador Program

July 10-14, 2017

Overview of the Week

Monday	G.H. Cook/Douglass Campus STEM Scavenger Hunt, Opening Session
Tuesday	<i>Discover STEM</i> Roundtable Discussions, <i>Explore STEM</i> Sessions, Physics Demonstrations, Cookout, Student Panel and Assistant Dean Q&A, Indoor Recreation
Wednesday	<i>Pursue STEM</i> Projects, STEM Poster Session Preparations
Thursday	4-H STEM Ambassador Training - Design It and Explore It Concurrent Sessions, Tours of Campus Farm
Friday	Rutgers Pre-College Research and Partnerships, STEM Poster Session, Closing Luncheon with Speaker and Recognition Ceremony

Monday, July 10

(staff and returners in red polo shirts)

Arrive 10:30 - 11:15 am	Check-in and Meet with County Groups (sign-in, folder, cinch bag, t-shirt, room key, access card, meal wristband) (facilities walk-thru checklist)	Newell Apartments #1-24
Noon - 1:00 pm	Lunch (current ambassadors meet over lunch to plan)	Neilson Dining Hall
1:15 - 1:45 pm	Exploring Your STEM Pathway	Cook Student Center - MPR B/C
1:45 - 2:00 pm	Welcome to Rutgers , The State University of New Jersey - Frank Brifu, University Admissions	Cook Student Center - MPR B/C
2:00 - 2:30 pm	Pre-survey	Cook Student Center - MPR B/C
2:30 - 5:00 pm	G.H. Cook/Douglass Campus STEM Scavenger Hunt	Cook/Douglass Campus
5:30 - 6:30 pm	Dinner	Neilson Dining Hall
6:45 - 9:00 pm	Opening Session A. Overview, Introductions, Schedule, Expectations B. Exploring Your STEM Future <ul style="list-style-type: none"> • STEM Skills • STEM Trends and Opportunities 	Cook Student Center - MPR B/C
9:00 - 10:00 pm	County Meetings/Volleyball, Basketball, Tennis	Newell - Outside
11:00 pm	Lights Out and Quiet	

Tuesday, July 11

7:30 - 8:30 am	Breakfast	Neilson Dining Hall
8:45 - 9:35 am	<i>Discover STEM</i> Roundtable Discussions Welcome and Overview Introductions of Scientists <ol style="list-style-type: none"> 1. Janet Alder - neuroscience 2. Ana Paula Centeno - computer science 	Cook Student Center - MPR B/C

	3. Joseph Freeman - biomedical engineering 4. Liesl Hotaling - engineering 5. Laura Liang - public health 6. Karyn Malinowski - animal science 7. Regina O'Brien - food science 8. John Reinfelder - environmental science 9. Michael Sukhdeo - evolutionary biology/parasitology 10. Susan Sukhdeo - evolutionary biology/parasitology 11. John Worobey - nutritional sciences 12. Javier Zavala-Garay - oceanography/modeling	
9:35 - 9:55 am	Roundtable Discussion #1	Cook Student Center - MPR B/C
9:55 - 10:15 am	Roundtable Discussion #2	Cook Student Center - MPR B/C
10:15 - 10:35 am	Roundtable Discussion #3	Cook Student Center - MPR B/C
10:35 - 10:55 am	Wrap-up and Reflection	Cook Student Center - MPR B/C
11:00 - 11:45 am	STEM Careers Overview Preview of Upcoming Sessions / Announcements	Cook Student Center - MPR B/C
Noon - 12:45 pm	Lunch (load bus immediately following lunch at 12:45)	Neilson Dining Hall
1:30 - 3:00 pm	Explore STEM Sessions Skeleton Detectives - Exploring Anthropology (SD) Math and Science Learning Center Fellow [Dyitt, Hester-Fearon] Who is the strongest? Testing Muscle Strength (MS) Dr. Monica Torres [Walker, Doster] Power to the People - Engineering Lab (PP) Catrice Carter, Rutgers Science Explorer [Nichnadowicz] STEM Ambassador Meeting (SA) - Opportunities at Rutgers, Dr. Patricia Irizarry-Barreto [Staffen, Kunicki, Verbeyst]	ARC Building, MSLC Room 307, Busch Campus ARC Building, MSLC Room 336 ARC Building, MSLC Room 309 ARC Building, MSLC Room - lobby
3:30 - 4:50 pm	Rutgers Physics Demonstrations (Dave Maiullo and team)	Physics Lecture Hall, Busch Campus
5:15 - 6:00 pm	Cookout with Rutgers Students and Faculty	Newell - Outside
6:00 - 7:30 pm	Rutgers Student Panel and Assistant Dean Q&A	Newell - Outside
8:00 - 10:00 pm	Recreation (pool is open from 8:00-10:00 for our group, everything else is 8:30-10:00 - basketball in gym, wallyball set-up in one racquetball court)	Cook/Douglass Recreation Center
11:00 pm	Lights Out and Quiet	

Wednesday, July 12

(staff and returners in grey, all others in red t-shirts)

7:30 - 8:30 am	Breakfast	Neilson Dining Hall
9:00 am - Noon	Pursue STEM Projects <u>Research Project A</u> Engineering: Robotics Rutgers Center for Mathematics, Science, and Computer Education (CMSCE) [Verbeyst]	Cook Student Center MPR-A

9:00 am - Noon	Research Project B Engineering: Tinkercad Dawna Schultz, Rutgers Center for Mathematics, Science, and Computer Education (CMSCE) [Kunicki]	Cook Student Center MPR-B
	Research Project C Computer Science: Python Lars Sorensen, Department of Computer Science [Walker]	Cook Student Center - MPR-C
	Research Project D Environmental Science: Mapping Cedar Stumps to Study Succession of the Forest- Dr. Rick Lathrop and students [Staffen, Hester-Fearon]	Livingston Campus Nature Preserve (AM) Environmental Science Building, room 237, Cook Campus (PM)
	Research Project E Exercise Physiology: Formulating Fitness Dr. Sara Campbell and students [Dyitt]	Nelson Building, room 128, 604 Allison Rd, Busch Campus (AM) IFNH, Cook Campus (PM)
	Research Project F (boxed lunches) Marine Science: Fisheries Ecology Dr. Becca Selden [Doster]	Bartlett 012 (9:00-12:00) 1914 Boathouse (1:00-2:30) 410 River Road (2:45-4:30)
Noon - 1:00 pm	Lunch	Neilson Dining Hall (except project F has boxed lunches)
1:00 - 4:30 pm	Pursue STEM Projects Continue and Finalize Research Projects (prepare data and illustrations for posters)	various locations - see above
5:30 - 6:30 pm	Dinner	Neilson Dining Hall
6:45 - 9:00 pm	Poster Session Preparations	Cook Student Center - MPR B/C
9:00 - 10:00 pm	County Meetings/Volleyball, Basketball, Tennis	Newell - Outside
11:00 pm	Lights Out and Quiet	

Thursday, July 13

7:30 - 8:15 am	Breakfast	Neilson Dining Hall
8:30 - 9:30 am	STEM Ambassador Presentation	Douglass Student Center (DSC) - Traves Hall A
9:30 - 10:15 am	STEM Ambassador Training What does it look like? - Developing a Checklist of Criteria for Excellent OST Science	DSC - Traves Hall A
10:15 - 11:45 am	<i>Design It and Explore It</i> Concurrent Sessions	Douglass Student Center (DSC)
	Bubbles (B) Nichnadowicz [Staffen, Hester-Fearon]	DSC - Traves Hall A
	Stomp Rockets (SR) Kunicki, Walker [Doster]	DSC - Traves Hall B
	Paper Bridges (PB) Verbeyst [Dyitt]	DSC - Meeting Room B (upstairs)
Noon - 1:00 pm	Lunch	Neilson Dining Hall
1:15 - 2:45 pm	<i>Design It and Explore It</i> Sessions - continued 1. Finish activities. 2. What did you notice about: activities, materials, facilitation, structure of curriculum? (reference OST checklist) 3. Overview of curriculum guides. 4. Summarize STEM content.	DSC - see above

3:00 - 4:00 pm	Project Sharing in County Groups	Douglass Student Center (DSC)
	Atlantic, Middlesex, Union	DSC - Traves Hall A
	Essex, Hudson	DSC - Traves Hall B
	Mercer	DSC - Meeting Room B (upstairs)
	Passaic	DSC - Meeting Room C (upstairs)
4:00 - 5:00 pm	STEM Event Planning in County Groups Discuss your first event(s) - summer camps, libraries, parks, fairs, afterschool, etc.	DSC - see above
5:30 - 6:30 pm	Dinner	Neilson Dining Hall
6:30 - 9:00 pm	Tours - Cook Campus Farm (two groups - Essex, Hudson, Mercer 6:30-7:20; all others 7:30-8:20)	First Group Leaves from Neilson Dining Hall, All Others Leave from Newell Apartments
8:30 - 10:00 pm	County Meetings/Volleyball, Basketball, Tennis	Newell - Outside
11:00 pm	Lights Out and Quiet	

Friday, July 14

7:30 - 8:15 am	Breakfast	Neilson Dining Hall
8:30 - 10:00 am	Rutgers Pre-College Research and Partnerships Victoria Cabrera, Research Assistant	Neilson Dining Hall (formal dining room)
10:00 - 10:30 am	Post-survey	Neilson Dining Hall (formal dining room)
10:30 am	Poster Session Set-up	Neilson Dining Hall (formal dining room)
11:00 am	Poster Session with Invited Guests	Neilson Dining Hall (formal dining room)
Noon - 2:00 pm	Closing Luncheon Welcome, Pledges, and Introductions Dr. Larry Katz, Director, Cooperative Extension Lunch Keynote -Dr. Sunita Gupta Kramer, Associate Dean for Academic Affairs, Rutgers Honors College Recognition Ceremony	Neilson Dining Hall (formal dining room)
2:30 - 3:30 pm	Check-out (rooms, keys)	Newell Apartments
3:30 pm	Travel Home	