

**2019 Interdisciplinary Materials RET Program  
Weekly Schedule**

<b>Week One (June 24 - June 28)</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:30-9:00	Breakfast Provided 339 Davey Lab		<b>Pre-program Survey Due</b>		Project Outline Due (PM)
9:00-9:30	<b>Welcome to the 2019 RET program!</b> Overview of Summer Activities, Goals, Themes, Deadlines, Logistics, Box, Brown Bag, etc. <i>Kristin Dreyer</i> 339 Davey Lab	Workshop: EH&S Training N308(A&B) MSC	Workshop: Calorimetry Part 1 <i>Rita Graef</i> Armsby Bulding	Workshop: Effective STEM Teaching & Learning Benchmarks <i>Jackie Bortiatynski</i> 339 Davey Lab	Research Project
9:30-10:00		<b>Research Talks at the Millennium Café</b> 3rd Floor Café Commons MSC	Workshop: Calorimetry Part 2 & Adaptations for Students who are Blind or Visually Impaired <i>Angela Bischof</i> 339 Davey Lab	Workshop: Keeping a Lab Notebook <i>Kirstin Purdy Drew</i> 339 Davey Lab	
10:00-10:30					
10:30-11:00					
11:00-11:30	Workshop: Summer #1: Achievements & Implementation <i>2nd Summer RETs</i>	Workshop: Materials Research Institute (MRI) Facilities <i>MRI Ambassadors</i>			
11:30-12:00					
12:00-12:30	Lunch with Research Mentors (meet in 339 Davey)	Lunch	Brown Bag Lunch Series 339 Davey Lab	Brown Bag Lunch Series 339 Davey Lab	Lunch
12:30-1:00					
1:00-1:30	Individual Lab Introductions	Research Project	Research Project	Research Project	Research Project
1:30-2:00					
2:00-2:30					
2:30- 3:00					
3:00-3:30					
3:30-4:00					
4:00-4:30	Chemistry Department Safety Testing 104 Chemistry Bldg. (only new teachers who are required)				
4:30-5:00					
Evening Activities					

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<b>Week Two (July 1 - July 5)</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	
8:30-9:00	Reflection #1 Assigned					
9:00-9:30	Group Meeting Project Outline, Goals & Outcomes 318 Osmond Lab	Research Project	Research Project	July 4th Independence Day (holiday)	Research Project	
9:30-10:00						
10:00-10:30						
10:30-11:00	Workshop: Humanity Needs Dreamers: A Visit with Marie Curie <i>Kristin Dreyer</i> 320 Whitmore Lab					
11:00-11:30						
11:30-12:00						
12:00-12:30	Brown Bag Lunch Series 318 Osmond Lab					Lunch
12:30-1:00						
1:00-1:30						
1:30-2:00	Arts Fest Kids Day Activity Preview <i>MRSEC Graduate Students</i> 3rd Floor Café Commons MSC	Research Project	Research Project		July 4th Independence Day (holiday)	Research Project
2:00-2:30						
2:30- 3:00						
3:00-3:30	Workshop: Radiation Science & Engineering <i>Candace Davison</i> Breazeale Nuclear Reactor					
3:30-4:00						
4:00-4:30						
4:30-5:00						
Evening Activities						<b>Reflection #1 Due</b>

Nuclear Reactor Tour:  
3:35 - 4:45 (official time)  
Send LIST of all names, etc.

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<b>Week Three (July 8 - July 12)</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:30-9:00			Arts Fest Kids Day (9-3pm Old Main Lawn)	Arts Festival Begins	
9:00-9:30	Research Project	Research Project	Research Project	Research Project	Research Seminar: Dr. Chris Giebink 339 Davey Lab
9:30-10:00					Workshop: Life Force Vectors <i>Kristin Dreyer</i> 318 Osmond Lab
10:00-10:30					
10:30-11:00					
11:00-11:30					
11:30-12:00					Group Meeting (lesson overview, scientific poster templates and design) 318 Osmond Lab
12:00-12:30	Lunch	Lunch	Lunch	Lunch	Brown Bag Lunch Series 318 Osmond Lab
12:30-1:00					
1:00-1:30	Research Project	Research Project	Research Project	Research Project	Workshop: Shoebox Spectrometer <i>Kirstin Purdy Drew</i> 309 Osmond Lab
1:30-2:00					
2:00-2:30					
2:30- 3:00					
3:00-3:30					Research Project
3:30-4:00					
4:00-4:30					
4:30-5:00					
Evening Activities				AstroFest (optional)	AstroFest (optional)

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<b>Week Four (July 15 - July 19)</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>
8:30-9:00	Reflection #2 Assigned		<b>Poster Draft #1 Due (title confirmed)</b>		
9:00-9:30	Research Project	Research Project	Research Project	Research Project	Seminar: Sustainability, Science Policy & Society <i>Jeremy Sutherland,</i> <i>Tom Nigl</i> 339 Davey Lab
9:30-10:00					
10:00-10:30					
10:30-11:00					
11:00-11:30					
11:30-12:00					
12:00-12:30	Lunch	Lunch	Lunch	Lunch	Working Lunch Workshop: Project Drawdown <i>Peter Buckland</i> 142 Land & Water Research Building
12:30-1:00					
1:00-1:30	Research Project	Research Project	Research Project	Research Project	Group Meeting Poster Feedback <i>Kristin Dreyer</i> 320 Whitmore Lab
1:30-2:00					
2:00-2:30					
2:30- 3:00					
3:00-3:30					
3:30-4:00					
4:00-4:30					Research Project
4:30-5:00					
Evening Activities					<b>Reflection #2 Due</b>

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<b>Week Five (July 22 - July 26)</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>			
8:30-9:00		<b>Poster Draft #2 Due</b>			<b>Due: Draft of Lesson Plan &amp; Scientific Talk</b>			
9:00-9:30	Research Project	Research Project	Research Project	Research Project	Research Project			
9:30-10:00								
10:00-10:30								
10:30-11:00								
11:00-11:30								
11:30-12:00								
12:00-12:30	Lunch	Lunch	Lunch	Lunch	Brown Bag Lunch Series 320 Whitmore Lab			
12:30-1:00								
1:00-1:30	Research Project	Research Project	Research Project	Workshop Introduction Discovery Space Museum	Group Meeting (draft #2 review of posters, lesson plans; practice talks) <i>Kristin Dreyer</i> <i>Kirstin Purdy Drew</i> <i>Tiffany Mathews</i> 320 Whitmore Lab			
1:30-2:00				RET Seminar: Project-based Making <i>Gabriela Richard</i> via Zoom				
2:00-2:30				Workshop: Effective Maker Spaces <i>Michelle Crowl</i> Discovery Space of Central PA Museum				
2:30- 3:00								
3:00-3:30								
3:30-4:00								
4:00-4:30								Research Project
4:30-5:00								
Evening Activities			(optional) PhD Career Panel 5-6:30pm Café Commons, MSC		Summer Academy STEM Extension Friday - Research Expo Saturday - Mixer (optional - RSVP)			

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<b>Week Six (July 29 - August 2)</b>	<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	
8:30-9:00		<b>Final Posters &amp; Talks Due at 12 Noon</b>	Highlights & Lesson Plans Due (PM)		<b>Post-program Survey Due</b>	
9:00-9:30	Research Project	Research Project	Research Project	Research Symposium Oral Presentations	Research Lab Wrap Up (final lab check-out)	
9:30-10:00						
10:00-10:30					Wrap-up & Next Steps	
10:30-11:00					Mini-grants, Lesson Implementation, Peer Review & Sharing, Publications, Future Opportunities, Exit Survey, Final Stipend Details	
11:00-11:30					318 Osmond Lab	
11:30-12:00						
12:00-12:30	Lunch	Lunch	Lunch	Lunch	Final Lunch with Grad Mentors & Faculty Advisers 318 Osmond Lab	
12:30-1:00						
1:00-1:30	Research Project	Research Project	Research Project	Research Symposium Poster Presentations		
1:30-2:00						
2:00-2:30						
2:30- 3:00						
3:00-3:30						
3:30-4:00						
4:00-4:30						Group Photo
4:30-5:00						(clean-up; return materials)
Evening Activities						