

The 2016 Summer Undergraduate Research Program of Center for Neural Science, New York University

Syllabus, 05/18/2016 version

Attendance by SURP Students Required, except where noted

Letters in bold indicate required writing assignments

Date	Occasion	Time and place	Leader and participants
<i>Week 1</i> May 31 Tuesday	Orientation and Welcome Reception hosted by the CNS	9 am – 6 pm Rm 815 Meyer Complex	All students, Dr. Chiye Aoki, SURP Director
	Breakfast and Introductions	9:00am –12:00pm	Dr. Margarita Kaplow, SURP Co-director Introduce Jenna Rice, Purchasing/AP Introduce Claudia Farb
	Buffet Lunch with mentors	12pm-1pm	All SURP students, Mentors, Dr. Mark Klinger, CNS coordinators and CNS staff
	Orientation on the use of animals in research	1pm-2pm	All SURP students, Dr. Mark Klinger
	Wet Lab Boot Camp I DNA extraction for PCR	2pm-4pm 612 Silver	All SURP students, Margarita, Yi-Wen Chen
	Getting NYU IDs, walk around the neighborhood	4pm-5pm Public Safety Office	All SURP participants, with NYU students
	Visit Mentor's lab	5pm-6pm	All SURP participants
June 1 Wednesday	Orientation on lab safety	8:30- 9:00am 9am-11am 815 Meyer	CNS SURP_BIO SURP "mixer" Bagels and Coffee All SURP students, lecture by the Environmental Health and Safety Officer
	Wet Lab Boot Camp II: Behavior experiments photo-taxis, odor taxi Running agarose gel	612 Silver 12pm-4pm	

June 2 Thursday	Wet Lab Boot Camp III Immunocytochemical visualization of antigens and viewing of brain specimens by light microscopy	1pm- 3pm-	ALL SURP participants, Chiye Aoki, Yi-wen Chen , Margarita Kaplow,
	Matlab I	3pm -5pm	Instructor: Alex Berardino
June 3 Friday	Matlab II	3pm-5pm	ALL SURP participants – Alex Berardino Submit a tentative title of your summer research, due at the end of the day
	Animal Facility Tour	Meet at Meyer Lobby at 1 pm Tour is 1-2	SURP animal users only (bring your NYU ID)
June 4 th or 5 th SAT or SUN	Bear Mountain- Hudson Valley Hiking Trip		Claudia Farb
Week 2 June 9 Thursday	SURP Group meeting, followed by luncheon and “ The Astonishing Effects of Exercise on the Brain”	815 Meyer 12pm-1pm 1pm-2pm	Group discussion among SURP students, facilitated by Chiye Aoki Lecture by Dr. Wendy Suzuki Submit a revised title and a bibliography
Week 3 June 13 Monday	Matlab III DUE: Mentors Survey Evaluation	3pm-5pm	ALL SURP participants Instructor: Alex Berardino
June 16 Thursday	SURP Group meeting, followed by luncheon, “Modeling Behavior” SURP group outing Broadway play: “Eclipsed”	815 Meyer 12pm-1pm 1pm-2pm The Golden Theatre -7pm	Group Discussion among SURP students, facilitated by Dr. Aoki Lecture by Dr. Weiji Ma Submit a rough draft of the Background section of the summer paper

<p><i>Week 4</i> June 23 Thursday</p>	<p>SURP Group Meeting followed by luncheon and Lecture on: “Neurocinematics”</p>	<p>815 Meyer 12pm-1pm 1pm-2pm</p>	<p>SURP Students Lecture by Dr. David Heeger Submit a rough draft of the ‘Methods’ section of the summer paper</p>
<p><i>Week 5</i> June 30 Thursday</p>	<p>SURP Group meeting, followed by luncheon and Lecture on: “Understanding cortical networks - structure and function of sensory cortex” ”</p>	<p>815 Meyer 12pm-1pm 1pm-2pm</p>	<p>Group discussion among SURP students, led by Dr Aoki, then a Lecture by Dr. Michael Hawken Submit a ‘pretty good’ draft of the ‘Intro’ section, consisting of the rationale and background material.</p>
<p><i>Week 6</i> Fourth of July</p>	<p>SURP Group Meeting</p>	<p>East River viewing of the fireworks, Evening</p>	<p>Group outing, voluntary</p>
<p>July 7 Thursday</p>	<p>SURP Group meeting, followed by luncheon and Lecture on: “An introduction to the neural mechanisms of perceptual decisions”</p>	<p>815 Meyer 12pm-1pm 1pm-2pm</p>	<p>Group Discussion led by Chiye Aoki Lecture by Dr. Roozbeh Kiani Submit a rough draft of the Results section (Imaginary graphs, tables, and drawings that shows the kind of data you <i>hope</i> to collect plus interpretation of expected results)</p>
<p><i>Week 7</i> July 14th Thursday</p>	<p>SURP Group meeting, followed by luncheon and Lecture on : “Evolution of Vision”</p>	<p>815 Meyer 12pm-1pm 1pm-2pm</p>	<p>Group Discussion led by Chiye Aoki, Lecture by Dr. Claude Desplan Submit a ‘pretty good’ draft of the “Methods’ section of the summer paper and any update on results</p>

Week 8 July 21 Thursday	Group Meeting Lunch, PowerPoint presentations by students	815 Meyer 12pm – 2pm	5-min Practice talks by SURP students – mentors welcomed to join Submit a rough draft of the Results and Discussion Section that considers the significance of data to be collected
July 22 Friday	Poster Session Diversity Summer Student Research Conference	Kimmel Center 9-6pm	All SURP Students, optional
Week 9 July 27 Wednesday	Practice session for the Symposium	9am-5pm	ALL SURP students with Chiye Aoki, Margarita Kaplow and mentors coaching the talks Come with your Full PowerPoint Presentation
July 29 Friday	SURP Symposium! Celebration Tea	9am-3pm 3-3:30pm	SURP students, open to the public and mentors (Invite your friends and family!) Coffee Break, Lunch, Coffee Break and tea for SURP participants and CNS community
Week 10 August 1 Monday	Filling out Survey Monkey	12-1pm	Last day to submit a draft of the entire paper to mentor
August 5th Friday	SURP students and mentor luncheon DUE- Mentors Survey final evaluation	12-3pm	SURP students and mentors Last day to submit the final version of the summer research paper to mentor and Dr. Aoki
August 6 Saturday	Check out from the dorm		

Suggested weekend outings: Movies, Fireworks on 4th of July, Museum tour, Statue of Liberty, Sailing, Boating/Zoo in Central Park