

**The 2017 Summer Undergraduate Research Program
of
Center for Neural Science,
New York University**

Syllabus, 05/23/2017 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 30 Tuesday	Orientation and Welcome Reception hosted by the CNS	9am – 6 pm Rm 815, Meyer	All students, Dr. Chiye Aoki, SURP Director
	Breakfast and Introductions	9:00am –12:00pm	Dr. Margarita Kaplow, SURP Co-director Introduce Jessica Holman, Jenna Rice, and Paul Fan
	Buffet Lunch with mentors	12pm-1pm	All SURP students, Mentors, CNS coordinators and CNS staff
	Orientation on the use of animals in research	1pm-2pm	All SURP students, Dr. Gordon Roble
	Wet Lab Boot Camp I DNA extraction for PCR	2pm-4pm Rm 612, Silver	All SURP students, Margarita, Albert Park
	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
May 31 Wednesday	Wet Lab Boot Camp II: Behavior experiments photo-taxis, odor taxi Running agarose gel	12pm-4pm Rm 612, Silver	ALL SURP participants, Chiye Aoki, Margarita Kaplow, and Albert Park

<p>June 1 Thursday</p>	<p>Orientation on lab safety</p> <p>Matlab I</p> <p>Wet Lab Boot Camp III Immunocytochemical visualization of antigens and viewing of brain specimens by light microscopy</p>	<p>9am-10am Rm 815, Meyer</p> <p>10am- 12pm Rm 815, Meyer</p> <p>3pm -5pm Rm 612, Silver</p>	<p>Zack Korenstein ALL SURP participants –</p> <p>Instructor: Gerick Lee</p> <p>ALL SURP participants, Chiye Aoki, Margarita Kaplow, Albert Park</p> <p>Submit a tentative title of your summer research, due at the end of the day</p>
<p>June 2 Friday</p>	<p>Animal Facility Tour</p>	<p>Meet at Meyer Lobby at 9am</p> <p>Tour 9am-10am</p>	<p>SURP animal users only (bring your NYU ID)</p>
<p>Week 2 June 8 Thursday</p>	<p>Matlab II</p> <p>““Diving into the brain of adolescents using an electron microscope to capture individual differences in resilience to stress”</p> <p>SURP Group meeting, lunch and weekly discussion</p>	<p>10am-12pm</p> <p>12pm-1pm</p> <p>1pm-2pm</p>	<p>Instructor: Gerick Lee</p> <p>Dr. Chiye Aoki</p> <p>Group discussion among SURP students, facilitated by Chiye Aoki</p> <p>Submit a revised title and a bibliography</p>
<p>Week 3 June 15 Thursday</p>	<p>SURP Group meeting, lecture followed by lunch and discussion</p> <p>“What the nose tells the brain”</p> <p>SURP group outing Off Broadway Show: “STOMP”</p>	<p>12pm-2pm</p> <p>12pm-1pm</p> <p>Orpheum Theatre - 8pm</p>	<p>Group Discussion among SURP students, facilitated by Dr. Aoki</p> <p>Dr. Dima Rinberg</p> <p>Submit a rough draft of the Background section of the summer paper</p>

<p><i>Week 4</i> June 22 Thursday</p>	<p>SURP Group Meeting: Lecture followed by lunch and discussion.</p> <p>“Stem Cells”</p>	<p>12pm-2pm Rm 815, Meyer</p> <p>12pm-1pm</p>	<p>Group discussion among SURP students, led by Dr Aoki, then lecture</p> <p>Lecture by Dr. Esteban Mazzoni</p> <p>Submit a rough draft of the ‘Methods’ section of the summer paper</p> <p>SURP mentors survey due</p>
<p><i>Week 5</i> June 29 Thursday</p>	<p>SURP Group meeting, followed by luncheon and Lecture on:</p> <p>“How Attention Affects Visual Perception”</p>	<p>12pm-2pm Rm 815, Meyer</p> <p>1pm-2pm</p>	<p>Group discussion among SURP students, led by Dr Aoki, then lecture</p> <p>Lecture by Dr. Marisa Carasco</p> <p>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 6 Thursday</p>	<p>SURP Group meeting, followed by luncheon and Lecture on:</p> <p>“Value Coding in Neural Decision Circuits”</p>	<p>12pm-2pm Rm 815, Meyer</p> <p>1pm-2pm</p>	<p>Group Discussion led by Chiye Aoki</p> <p>Lecture by Dr. Kenway Louie</p> <p>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 13 Thursday</p>	<p>SURP Group meeting, lecture followed by lunch and discussion</p> <p>“Building Memories in the Brain”</p>	<p>12pm-2pm Rm 815, Meyer</p> <p>12pm-1pm</p>	<p>Group Discussion led by Chiye Aoki,</p> <p>Lecture by Dr. Tom Carew</p> <p>Submit a ‘pretty good’ draft of the “Methods’ section of the summer paper and any update on results</p>

Week 8 July 20 Thursday	Group Meeting Lunch, PowerPoint presentations by students	12pm – 2pm Rm 815, Meyer	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
Week 9 July 26 Tuesday	Practice session for the Symposium	9am-5pm Rm 815, Meyer	ALL SURP students with Chiye Aoki, Margarita Kaplow and mentors coaching the talks Come with your Full PowerPoint Presentation
July 27 Thursday	SURP Symposium! Celebration Tea	9am-3pm Rm 815, Meyer 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
July 28 Friday	Diversity Summer Student Research Conference	9am-6pm Kimmel Center	All SURP students, optional
Week 10 July 31 Monday	SURP Group meeting, lecture followed by lunch and discussion “Practical Neuroscience for Everyday Life” Filling out Survey Monkey	12-12pm Rm 815, Meyer 12pm-1pm	Last day to submit a draft of the entire paper to mentor <i>Itensati workout</i> followed by Lecture: Dr. Wendy Suzuki Dr. Chiye Aoki
August 4th 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 5 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