Neural Science Honors Seminar (NEURL-UA.301) — Fall 2018

Time: Tuesdays 2:00 – 4:00 Location: Meyer Hall, Room 760

Sep 4	1.	Research Foundations: Experimental Design, and Scientific Epistemology Reading: Hailman and Strier, Ch. 1- How to Plan Research
Sep 11	2.	Student Oral Presentations of Research Plan Presenting Research: Organization and Presentation Skills Each student presents a 5-min research statement, offers feedback for other presenters
Sep 18	3.	Exploring the Mentor-Trainee Relationship Reading: Macrina, Ch. 1 - Methods, Manners, and the Responsible Conduct of Research Ch. 2 - Ethics and the Scientist
Sep 25	4.	Science Writing (also: How to Structure Your Thesis) Reading: Hailman & Strier, Ch. 3 - How to Write a Research Report *Journal Club article selection due
Oct 2	5.	Student Journal Club Presentations *1-page Journal Club link to student's research due
Oct 9	**	NO CLASS – NYU MONDAY SCHEDULE **
Oct 16	6.	Authorship and Publication Practices Reading: Macrina, Ch. 4 - Authorship and Peer Review
Oct 23	7.	Ethical Treatment of Research Subjects Reading: Macrina, Ch. 5 - Use of Humans in Biomedical Experiments Ch. 6 - Use of Animals in Biomedical Experiments *Paper: preliminary Introduction due
Oct 30	8.	Three-Minute Student Research Presentations
Nov 6	**	NO CLASS - SFN CONFERENCE **
Nov 13	9.	Data Acquisition, Management, and Analysis Reading: Macrina, Ch. 11 - Scientific Record Keeping *Paper: preliminary Methods due
Nov 20	10.	Responsible Conduct of Research Reading: Macrina, Ch. 1 – Methods, Manners, and the Responsible Conduct of Research Ch. 2 – Ethics and the Scientist
Nov 27	11.	Oral Presentation Skills: Best Practices for Posters and Talks Reading: Hailman and Strier, Ch. 4 – How to Present Research *Paper: preliminary Results and Figures due
Dec 4	12.	Student Research Presentations and Class Critiques Each student presents a 10-min presentation on project, offers feedback for other presenters
Dec 11	13.	Survival Skills for Research-Inspired Careers *Final paper due

Text:	Hailman, J.P. and Strier, K.B. <u>Planning, Proposing, and Presenting Science Effectively.</u> Cambridge University Press, Cambridge, 2006.
	Macrina, F.L. Scientific Integrity, 3 rd Ed., ASM Press, Washington, 2005
Grading:	Preliminary statement and review of research goals
	Journal club Each student chooses an effective research article, and leads a presentation. Class members provide constructive feedback, and discuss the implications of the article. The presenter must manage all of this within 15 mins. Student submits one-page summary of how the article is relevant to his/her research.
	Individual oral presentation10%
	Class participation
	Research oral presentation (3 mins)
	Research oral presentation (10 mins) Each student gives a 10-min presentation of his/her laboratory research. Class members ask questions, and critique the presentation (5 mins).
	Individual presentation 20% Class participation 10%
	Final research paper To be submitted electronically no later than 5pm, Dec 11, 2018. The paper may serve as a preliminary draft of the Honors Thesis; further details in class.

Preliminary Introduction	2%
Preliminary Methods	
Preliminary Results and Figures	
Final paper	25%

TOTAL:.....100%

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