Neural Science Honors Seminar (NEURL-UA.301) — Fall 2017

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

Sep 5  1. Research Foundations: Experimental Design, and Scientific Epistemology
   Exploring the Mentor-Trainee Relationship
   Reading: Hailman and Strier, Ch. 1 - How to Plan Research

Sep 12  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 19  3. Science Writing (also: How to Structure Your Thesis)
   Reading: Hailman & Strier, Ch. 3 - How to Write a Research Report

Sep 26  4. Responsible Conduct of Research
   Reading: Macrina, Ch. 1 - Methods, Manners, and the Responsible Conduct of Research
   Ch. 2 - Ethics and the Scientist

Oct 3   5. Authorship and Publication Practices
   Reading: Macrina, Ch. 4 - Authorship and Peer Review
   *Journal Club article selection due
   *Paper: preliminary Introduction due

Oct 10  6. Student Journal Club Presentations 1
   *1-page Journal Club link to student’s research due

Oct 17  7. Student Journal Club Presentations 2
   *1-page Journal Club link to student’s research due

Oct 24   8. 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 Methods due

Oct 31   8. Three-Minute Student Research Presentations

Nov 7  9. Data Acquisition, Management, and Analysis
   Reading: Macrina, Ch. 11 - Scientific Record Keeping
   *Final paper: preliminary Results and Figures due

Nov 14   ** NO CLASS - SFN CONFERENCE  **

Nov 21  10. Student Research Presentations 1 and Class Critiques
   Each student presents a 10-min presentation on project, offers feedback for other presenters

Nov 28  11. Student Research Presentations 2 and Class Critiques
   Each student presents a 10-min presentation on project, offers feedback for other presenters

Dec 5  12. Survival Skills for Research-Inspired Careers
   *Final paper due

Dec 12   ** NO CLASS – NYU MONDAY SCHEDULE  **


Grading:

**Preliminary statement and review of research goals** ........................................... 5%

Each student presents a 5-min research statement, and offers feedback for other presenters.

**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 presentation ................................................................. 10%
- Class participation ........................................................................ 10%
- 1-page written account of link to student’s research ....................... 4%

**Research oral presentation (3 mins)** ................................................................. 10%

*Each student gives a 3-min presentation of his/her laboratory research, with just one slide, and offers feedback for other presenters.*

**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 13, 2016.*

*The paper may serve as a preliminary draft of the Honors Thesis; further details in class.*

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

TOTAL: ............ 100%

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