Neural Science Honors Seminar (NEURL-UA.301) — Fall 2016

Time: Tuesdays 2:00 – 4:00
Location: Meyer Hall, Room 807

   Reading: Hailman and Strier, Ch. 1 - How to Plan Research

Sep 13 2. Presenting Research: Organization and Presentation Skills
   Student Oral Presentations of Research Plan
   Each student presents a 5-min research statement, and offers feedback for other presenters

Sep 20 3. Science Writing
   Overview of Writing Tutor Program (w/ Natasha Zaretsky)
   Reading: Hailman & Strier, Ch. 3 - How to Write a Research Report

Sep 27 4. Exploring the Mentor-Trainee Relationship
   Discussion: What are the benefits and challenges of collaboration in science?
   Reading: Macrina, Ch. 8 – Collaborative Research

Oct 4  5. Responsible Conduct of Research
   Reading: Macrina, Ch. 1 - Methods, Manners, and the Responsible Conduct of Research
   Ch. 2 - Ethics and the Scientist
   *Final paper: preliminary Introduction due

Oct 11 ** NO CLASS – MONDAY SCHEDULE **

Oct 18 6. Authorship and Publication Practices
   Reading: Macrina, Ch. 4 - Authorship and Peer Review
   *Journal Club article selection due

Oct 25 7. Student Journal Club Presentations
   *1-page Journal Club link to student's research due

Nov 1  8. Ethical Treatment of Research Subjects
   Reading: Macrina, Ch. 5 - Use of Humans in Biomedical Experiments
   Ch. 6 - Use of Animals in Biomedical Experiments
   *Final paper: preliminary Methods due

   Reading: Hailman and Strier, Ch. 4 - How to Present Research

Nov 15 ** NO CLASS – SFN CONFERENCE **

Nov 22 10. Three-Minute Student Research Presentations

Nov 29 11. Data Acquisition, Management, and Analysis
   Reading: Macrina, Ch. 11 - Scientific Record Keeping
   *Final paper: preliminary Results and Figures due

Dec 6  12. Student Research Presentations and Class Critiques

Dec 13 13. Survival Skills for Research-Inspired Careers
   *Final Paper due


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%

Staff:

Kenway Louie  <klouie@cns.nyu.edu>

Mal Semple  <mal.semple@nyu.edu>