Neural Science Honors Seminar — Spring 2015
NEURL-UA.301

Time: Tuesdays 2:00 – 4:00
Location: Meyer Hall, Room 815

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

Feb 3  2. Student Oral Presentations of Research Plan
   Each student presents a 5-min research statement, and offers feedback for other presenters
   Louie

Feb 10 3. Exploring the Mentor-Trainee Relationship
   Discussion: What are the benefits and challenges of collaboration in science?
   Reading: Macrina, Ch. 8 - Collaborative Research
   Louie

Feb 17 4. Ethical Treatment of Research Subjects
   Reading: Macrina, Ch. 5 - Use of Humans in Biomedical Experimentation; and Ch. 6 - Use of Animals in Biomedical Experimentation
   Louie

Feb 24 5. Responsible Conduct of Research — Research Misconduct
   Reading: Macrina, Ch. 1 - Methods, Manners and the Responsible Conduct of Research Ch. 2 - Ethics and the Scientist.
   Semple

Mar 3  6. Authorship and Publication Practices
   Reading: Macrina, Ch. 4 - Authorship and Peer Review
   Semple

Mar 10 7. Data Acquisition, Management, and Analysis
   Reading: Macrina, Ch. 11 - Scientific Record Keeping
   Semple

Mar 17 8. SPRING BREAK

Mar 24 9. Student Journal club presentations I
   *1-page link to research due
   Louie

Mar 31 10. Student Journal club presentations II
   *1-page link to research due
   Louie

Apr 8 11. Science Writing
   Reading: Hailman & Strier, Ch. 3 - How to Write a Research Report
   Louie

Apr 14 12. Three-Minute Student Research Presentations
   Best Practices for Posters and Talks
   Reading: Hailman and Strier, Ch. 4 - How to Present Research
   Louie

Apr 21 13. Student Research Presentations and Class Critiques I
   Semple

Apr 28 14. Student Research Presentations and Class Critiques II
   Semple

May 5 15. Survival Skills for Research-Inspired Careers
   *Final Paper due
   Semple

*1-page link to research due

* 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 .................................................................... 5%

**Research oral presentation (3 mins)** ....................................................................................... 5%
*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** .................................................................................................................. 35%
*To be submitted electronically no later than 5pm, May 6, 2014.*
*The paper may serve as a preliminary draft of the Honors Thesis; further details in class.*

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

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