Toxicology 699 – Prelim A

The Toxicology 699 – Prelim A course is designed to help students learn to write science at the poster, manuscript, and grant levels. Many of the resources used for the course can be accessed on-line through various media.

The course will consist of five 2-hour meeting times, which are listed below. The final assignment will be given at the final course and will be due on 6/15. This assignment is to be written like an NIH / NSF-style grant. They will be reviewed by a committee of faculty members, who will return the projects with comments by July 1.

This document will serve as a springboard for when you create your Preliminary Exam B oral exam for your committee. Successful completion of Preliminary Exam B will allow you to move towards candidacy (dissertator status).

(Tip: To speed up videos on YouTube, click on the “Settings” wheel on the video control bar just under the video, and select desired pace from “Speed” dropdown menu)

Class 1 (4/28) Scientific Presentations (McConnell and discussion)

McConnell (42:10)
https://www.youtube.com/watch?v=Hp7Id3Yb9XQ

Class 2 (5/1) Introduction to NIH/NSF Grants

NIH Tips for Applicants (4:37)
https://www.youtube.com/watch?v=lAOGtr0pM6Q

Other helpful links:

http://grants.nih.gov/grants/writing_application.htm
http://www.cs.cmu.edu/~sfinger/advice/advice.html (Advice on writing NSF Proposals)
http://nsf.gov/funding/preparing/
Class 3 (5/8) Scientific Writing

How to Write Scientific Research Paper (1) (8:12)
https://www.youtube.com/watch?v=0oAFVHb21HM

How to Write Scientific Research Paper (2) (8:27)
https://www.youtube.com/watch?v=3QV2c6QKsMA

How to Write Scientific Research Paper (3) (4:30)
https://www.youtube.com/watch?v=zuwFDwVVp4A

(these previous three videos are created by a professor at Oklahoma State University)

10 Commandments to being a Successful Scientist (23:01)
http://www.acs.org/content/acs/en/events/acs-webinars1/ten-commandments-for-being-a-successful-scientist-griffin.html

(this lecture is more of a whole-career overview, versus being completely focused on writing; it does emphasize how writing is important to building a reputation as a good scientist)

Fundamentals to Effective Scientific Writing (28:48)

(this talk seems to go “back to basics” with emphasis on common mistakes and how to write more clear and concise)

Class 4 (5/5) Scientific Writing Publication (the Review Process) (ACS Webinars)

Publishing Research 101 (1) (7:35)
https://www.youtube.com/watch?v=E13mWgsp_og

Publishing Research 101 (2) (10:07)
https://www.youtube.com/watch?v=QGii-OZVP4A

Publishing Research 101 (3) (8:41)
https://www.youtube.com/watch?v=HdqfXVJKH6o

Class 5 (5/15) Grant Writing and Assignment
**VERY** important dates:

6/15  Assignment (Proposal) is Due to Mark by noon.

7/1  Reviews (workshop)