

Biol Chem 601 Tools of a Scientist Fall 2018 Syllabus

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2:30-4 pm, Mo, We; 3340 MSRB3

1	W	Sep 5	Introductions; Course Policies and Participants
2	M	Sep 10	The Scientific Method; from Background to Discovery
3	W	Sep 12	Identifying a Testable Hypothesis; Critical Reading
4	M	Sep 17	From Idea to Breakthrough; Reading between the Lines
5	W	Sep 19	Qualitative Research; its Value and Contributions to Everyday Science
6	M	Sep 24	A Link between Published Forms of Science
7	W	Sep 26	Critical Thinking: The Value of Scientific Training
8	M	Oct 1	Preparing a Successful Application and Interview
9	W	Oct 3	Communicating Your Science; a Written Practicum
10	M	Oct 8	From Bug to Bedside; The Regulatory Route and Model Organisms
11	W	Oct 10	Molecular Mechanisms; The Biochemistry of Druggable Targets
		Oct 15-17	Fall Break (no class)
12	M	Oct 22	Communicating Your Science; Oral Practicum
13	W	Oct 24	Rigor of Reproducibility; Responsibility and Reading
14	M	Oct 29	Methods of Learning
15	W	Oct 31	Scientific Presentations; focus on a student's presentation
16	M	Nov 5	Scientific Publications; preparing a literature review
17	W	Nov 7	Examples of good literature reviews
18	M	Nov 12	Scientific Publications; how to prepare a manuscript for publication
19	W	Nov 14	Scientific Presentations: how to prepare and give a poster
20	M	Nov 19	Scientific Presentations: "Posterization" of a research paper
21	W	Nov 21	Critical analysis; reviewing scientific work
22	M	Nov 26	Conducting a critical analysis; a practicum
23	W	Nov 28	Conducting a critical analysis; a practicum
24	M	Dec 3	Paradigm changing science; examples
25	W	Dec 5	Exercise in future directions; coming up with the next steps
26	M	Dec 10	Funding your work and career; a Summer fellowship