

# **Chemistry 700: Responsible Scholarship in the Chemical Sciences**

Fall 2017

1:00 - 3:00 pm, Friday  
October 13 – December 1

**Time:** Friday, 1:00 – 3:00 pm

**Location:** 2043 Malott Hall

**Professor:** Michael A. Johnson, 3071 Malott Hall

**Phone:** 864-4269

**Email:** [johnsonm@ku.edu](mailto:johnsonm@ku.edu)

**Office Hours:** by appt

**Course Email:** [johnsonm@ku.edu](mailto:johnsonm@ku.edu)

This email address should be used for all course correspondence.

**Course Website:** A course website is available on Blackboard (<http://courseware.ku.edu>). All course materials will be posted on this website.

## **Course Materials:**

*On Being a Scientist: A Guide to Responsible Conduct in Research*,  
3<sup>rd</sup> Edition, National Academies Press (2009).  
<http://www.nap.edu/catalog/12192.html>

*ORI Introduction to the Responsible Conduct of Research*,  
Nicholas H. Steneck, U.S. Government Printing Office (2007).  
[http://ori.hhs.gov/publications/ori\\_intro\\_text.shtml](http://ori.hhs.gov/publications/ori_intro_text.shtml)

Both texts can be downloaded for free.

**Description:** A course for beginning graduate students with particular emphasis on scholarship issues relevant to the chemical sciences. Topics will include scientific ethics, codes of conduct, record keeping, authorship, and the responsibilities of a scientist. Group discussions, particularly centered around case studies, will be a significant component of the course.

**Discussions:** A key component of this course will be group discussions. You will only be able to fully engage with the material through this back and forth with your peers. Thus, vigorous discussion is not only encouraged but expected. However, it is important that the discussion also be respectful and not personal; we will deal with difficult issues that do not always have a right or wrong answer. You are expected to actively participate. For each discussion every group will be assigned a discussion leader whose job it will be to summarize the consensus (or lack thereof) of the group and present it to the rest of the class in the subsequent discussion involving the entire class. You will

frequently be asked to submit your own thoughts on the case studies discussed after the class, so you are well-served to interact *and* take notes.

**Grading:** Attendance 1 pt per class/number of classes

**Assignments:** 100 pts

**Total = Attendance\*Assignments (100 pts)**

**Grades:** Letter grades will be assigned on the basis of total accumulated points relative to the maximum of 100 pts; not all assignments will have the same point value. *The attendance score will be evaluated on a binary scale: 1=attendance at all classes, 0=one or more unexcused absences.* If you miss a class contact me as soon as possible to be given an opportunity to complete a non-trivial out-of-class assignment to make up for the absence. In no case will a person receive a letter grade lower than would be obtained based on the traditional A>90, B>80, C>70, etc. scheme. Final grades will be assigned on a letter-grade basis, e.g., A, B, C with no +/-.

**Academic Misconduct:** Any incident of academic misconduct in this course will be treated with the utmost seriousness. All students involved will receive, at a minimum, a zero for the assignment in question and be prosecuted to the fullest extent possible according to the procedures [outlined in the KU Policy Library](#). Be sure that you read these guidelines carefully. While the most basic rule is *anything you submit in the course must be your own work*, this is only one aspect of academic misconduct. Ignorance of the rules is not a defense, make sure you know and understand them. If you have questions please feel free to discuss them with me. KU subscribes to a digital plagiarism detection program called SafeAssign, which may be used to check assignments submitted in this course. You may be asked to submit your papers in a digital format (e.g., BlackBoard digital drop box) so that your paper can be checked against web pages and databases of existing papers.

**Classroom Decorum:** Talking with friends, reading the newspaper, completing homework, texting, listening to or using electronic devices including laptop computers, and other disruptive activities are not acceptable and should be carried on *outside of class*.

**Course Materials:** Course materials prepared by the instructor, together with the content of all lectures and discussions presented by the instructor are the property of the instructor. Video and audio recording of lectures and discussion sessions without the consent of the instructor is prohibited.

**Special Needs:** The KU Academic Achievement & Access Center (AAAC) coordinates accommodations and services for all eligible students. If you have a disability for which you wish to request accommodations please contact AAAC. The AAAC office is located in 22 Strong Hall; their phone number is (785)864-4064 (V/TTY). Information about their

services can be found at <http://disability.ku.edu>. Students with special needs should notify me privately as soon as possible to ensure timely arrangement of special accommodations.

### **IMPORTANT! POLICY REGARDING CONCEALED CARRY OF FIREARMS**

If you carry a concealed firearm, it is imperative that safety precautions are taken to ensure the safety of yourself and others. For details regarding the concealed carry of firearms on the KU campus, please reference the KU weapons policy at <http://policy.ku.edu/university-kansas-policy-weapons-including-firearms-effective-july-1-2017>.

Also, please note the following change in policy, which has been approved by the KU Office of General Counsel:

All bags, purses, backpacks, etc. are to be stowed in designated areas before laboratory sessions begin. Students who carry a handgun in a purse or backpack (pursuant to state law - K.S.A. 75-7c20) will either have to transfer the handgun to a concealed holster on their body, or transfer the firearm to a secure location, such as a gun safe in their residence or the trunk of their locked vehicle prior to class.

### ***Tentative Lecture Topics (subject to change)***

**Note:** Reading assignments will be provided prior to class

<b>List of Topics</b>
Introduction to responsible scholarship. Codes of conduct, responsibility, and ethical research. Mentor/trainee responsibilities. Plagiarism
Research misconduct. Responding to ethical lapses and cases of possible misconduct.
Data acquisition, data management, and data sharing
Publication practices: responsible authorship, plagiarism, and peer review Academic Misconduct
Conflict of interest/commitment. Institutional responsibilities
Intellectual property. Science policy/Research and society Sensitivity issues (cultural, gender, etc.)
Human/animal subjects. Laboratory safety