

**BMSC 5001 (1 credit) Integrity in Scientific Research****Fall 2017**

Fridays 9.00 – 10:00 am in BSEB 272. Changes in time and/or location will be indicated later.

Coordinator: Carol Webb, Room 419, 800 Research Park, [carol-webb@ouhsc.edu](mailto:carol-webb@ouhsc.edu), phone 271-4188.

Description: The course will incorporate multiple topics relevant for responsibly conducting research in today's climate, including the use of animals, human subjects, conflicts of interest, responsibilities of mentors and mentees, peer review, authorship, plagiarism, data acquisition and ownership, and other ethical issues relevant for biomedical research.

Course Objectives:

To educate students such that they may responsibly perform research and adhere to high standards of scientific integrity.

To fulfill federal requirements for instruction in responsible conduct of research.

**Text book: Macrina "Scientific Integrity"**(4th edition). ASM Press: [www.asmpress.org](http://www.asmpress.org)

Companion web site: [www.scientificintegrity.net](http://www.scientificintegrity.net)

Students are expected to read the relevant chapter before each class unless different reading has been specifically assigned (usually posted on D2L). This is a traditional Face to Face discussion class with mandatory attendance. In the past we found it helps discussion if the instructor assigns in advance a few of the case studies (at the end of each chapter) so the students can think about them before the class. There are also quizzes for each chapter in Appendix II.

Date	Instructor	Topic	Text 4 <sup>th</sup> edition
Fri Aug 25	Gillian Air	Methods, Manners and Ethics	Chs 1 & 2
Fri Sep 1	Eric Howard and Madeline Budda	Ethical use of animals in research	Ch 6
Fri Sep 8	Pat Gaffney	Collaborative Research	Ch 8
Fri Sep 15	Jim Tomasek	Stem Cell Research 1	
Fri Sep 22	Carol Webb	Peer Review	Ch 4 (part I)
Fri Sep 29	Mary Carter	Plagiarism	
Fri Oct 6	Dean Myers	Data analysis	
<b>Fri Oct 13</b>	<b>FALL BREAK</b>	<b>FALL BREAK</b>	
Fri Oct 20	Paul Kincade	Authorship	Ch 4 (part II)
Fri Oct 27	Anne Pereira	Scientific record keeping	Ch 10 & App. VI
Fri Nov 3	Larry Rothblum	Conflicts of interest	Ch 7
Fri Nov 10	Hal Scofield	Human subjects	Ch 5
Fri Nov 17	Jim Tomasek	Stem Cells Research 2	
<b>Fri Nov 24</b>	<b>Thanksgiving Break</b>	<b>Thanksgiving Break</b>	
Fri Dec 1	Gene Anderson	Mentoring	Ch 3
<b>Thu Dec 7</b> <b>1:00-2:00 pm</b>	Jill Raines	Discrimination and harassment, reporting misconduct	
Fri Dec 8	Bob Axtell	Who owns the data?	Ch 9

Grade: 60% preparation and participation, 40% paper.

The paper will discuss ethical issues of the Hwang stem cell case. Pick 3 of the following for comment; describe briefly what happened in the case that relates to each issue, discuss why it was wrong, or questionable, or not a problem, and discuss what could have been done to avert the problems. You should not need more than 2 pages. Due December 11.

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|--|--------------------------------|
| (a) use of human subjects                | (f) discrimination, harassment |
| (b) data analysis, falsification of data | (g) conflicts of interest      |
| (c) reporting misconduct                 | (h) mentoring                  |
| (d) authorship                           | (i) record keeping             |
| (e) peer review                          |                                |

**Important: In accord with NIH requirements, class attendance is mandatory and you need a 100% attendance record to pass this course.**

### **Policy Statements**

•**This syllabus is intended as a guide for this course. Dates, assignments, and evaluation are subject to revision by the instructor. Any such revisions will be announced in advance.**

•**Copyright.** This syllabus and all related course material are protected under US Copyright Law and may not be further disseminated in any form or format without the prior explicit written consent of the faculty member. Failure to comply with this provision may subject the student to disciplinary action and/or state or federal action.

•**Student Professional Behavior in an Academic Program.** Ethical and professional behaviors are considered a core competency in an academic program and, thus are key factors in good academic standing. Upon acceptance of an offer of admission, the student commits to comply with all professional conduct regulations established by the University, respective college, and program. The complete University policy is at [www.ouhsc.edu/provost/documents/FacultyHandbookOUHSC.pdf](http://www.ouhsc.edu/provost/documents/FacultyHandbookOUHSC.pdf)

•**Academic Misconduct Code.** The code describes academic misconduct as acts intended to improperly affect the evaluation of a student's academic performance or achievement and includes but is not limited to acts such as cheating, plagiarism, fabrication, fraud, destruction, bribery or intimidation, assisting others in any act proscribed by this Code, or attempting to engage in such acts. The policy and procedures related to academic misconduct are detailed in the Academic Misconduct Code found in Appendix C of the Faculty Handbook at [www.ouhsc.edu/provost/documents/FacultyHandbookOUHSC.pdf](http://www.ouhsc.edu/provost/documents/FacultyHandbookOUHSC.pdf)

• **Academic Appeals.** This policy outlines the procedure to request a hearing for appeals related to evaluation in a course, thesis or dissertation defense, general or comprehensive exam. It also outlines the appeal process for a suspension or dismissal or under the Student Professional Behavior in an Academic Program Policy, and the appeal of decisions resulting in dismissal, expulsion, or suspension from a program. The sole basis for an academic appeal is an alleged prejudiced or capricious evaluation or decision. Policy and procedure details are in Appendix C of the Faculty Handbook at [www.ouhsc.edu/provost/documents/FacultyHandbookOUHSC.pdf](http://www.ouhsc.edu/provost/documents/FacultyHandbookOUHSC.pdf)

•**Accommodation on the Basis of Disability.** The University of Oklahoma is committed to the goal of achieving equal educational opportunity and full participation for students with disabilities. Accommodations on the basis of disability are available by contacting the Disability Resource Center (DRC) by email at [drc@ou.edu](mailto:drc@ou.edu) or by calling (405) 325-3852 (Voice) or (405) 325-4173/TDD. Information on policies and registration with the Disability Resource Center may be found on the DRC website at: <http://www.ou.edu/drc>. Students requesting accommodations related to work in a course must contact the DRC as soon as possible; accommodations are not made retroactively.

•**Sexual Misconduct.** For concerns regarding gender-based discrimination, sexual harassment, sexual misconduct, stalking, or intimate partner violence, the University offers a variety of resources, including Advocates-On-Call 24/7, counseling services, mutual “No Contact orders,” scheduling adjustments, and disciplinary sanctions against the perpetrator. Please contact the Sexual Misconduct Office at (405) 325-2215 (8AM-5PM) or the Sexual Assault Response Team at (405) 605-0013 (24/7).

•**Adjustment for Pregnancy/Childbirth Related Issues.** Students needing modifications or adjustments to course requirements because of documented pregnancy-related or childbirth-related issues should contact the college’s Assistant/Associate Dean for Student Affairs (or academic advisor) as soon as possible to discuss. Generally, modifications will be made where medically necessary and similar in scope to accommodations based on temporary disability. See <http://www.ou.edu/eoo/faqs/pregnancy-faqs.html> for commonly asked questions.

•**Course Drop/University Withdrawal.** The student is responsible to submit required University paperwork before the deadlines shown in the Academic Calendar online at <http://admissions.ouhsc.edu//default.aspx>. Missed homework and examination grades will be entered as a grade of zero if a student fails to formally drop the course or withdraw from the University.

•**Responsible Conduct of Research.** Students, as members of the University community, have the responsibility to ensure that integrity and ethical standards in any activity with which they are associated directly or any activity of which there is sufficient knowledge to determine its appropriateness. Students are governed by the Policy on Ethics in Research (Faculty Handbook Section 3.25). [www.ouhsc.edu/provost/documents/FacultyHandbookOUHSC.pdf](http://www.ouhsc.edu/provost/documents/FacultyHandbookOUHSC.pdf)