CHEM4933: Current Topics in Biochemistry: Introduction to Proteomics
Spring Semester 2016 Syllabus
Class Meetings: 12:30-13:20 pm MWF in PHSC321

Instructor: Si Wu
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Course description: This course will introduce the students to the fundamental concepts of proteomics, the tools of proteomics, and the applications of proteomics to real life biochemistry or biomedical research. The first half of the course will cover current methodology used for protein identification and quantitation (e.g., protein mass spectrometry and bioinformatics tools). The second half of the course will be three proteomics application case studies ranging from disease related protein biomarker discovery, structural mass spectrometry, and therapeutic target discovery. Students will be asked to read and discuss the papers through either poster presentation or oral presentation.

Prerequisites: Introductory biology courses are recommended (e.g., “Intro to molecular biology”, or “Introductory biology”)

Course resources:
- There is no required textbook for the course; Introduction to Proteomics by Daniel C. Liebler is the recommended textbook
- Office hours: available by appointment
- Digital access to the course webpage located at http://learn.ou.edu is required; handouts will be posted on the course webpage

Email: You have the responsibility to read and respond to any email messages sent by the instructor. Messages will only be sent to OU accounts. Grade-related matters will not be discussed by phone or email.

Course Grade (Total of 1000): Lecture grade (400) and Case study (600)

Lecture grades (400): Lecture exam 400

**The final exam must be taken or an F will be assigned

Case study grades (600): Three case study projects will be assigned

**No accommodation will be made for non-excused absences. For excusable absences you must provide me with timely (within one week of missed exam) documentation and see me to make individual accommodations.

University policy regarding to reasonable accommodation: The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are requested to speak with the
instructor as early in the semester as possible. Students with disabilities must be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone 405/325-3852 or TDD only 405/325-4173.

Adjustments for Pregnancy/Childbirth Related Issues: Should you need modifications or adjustments to your course requirements because of documented pregnancy-related or childbirth-related issues, please contact me as soon as possible to discuss. Generally, modifications will be made where medically necessary and similar in scope to accommodations based on temporary disability. Please see www.ou.edu/content/eoo/pregnancyfaqs.html for commonly asked questions.

Title IX Resources: For any 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 405-325-2215 (8-5) or the Sexual Assault Response Team 405-615-0013 (24/7) to learn more or to report an incident.

Religious Holidays: It is the policy of the University to excuse the absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required classwork that may fall on religious holidays.

University Policy Regarding Codes of Behavior: Each student should acquaint himself or herself with the University's codes, policies, and procedures involving academic misconduct, grievances, sexual and ethnic harassment, and discrimination based on physical handicap. Students engaging in academic misconduct (including cheating, plagiarism, and any other action that may improperly affect evaluation) will be subject to sanctions in accordance with the Norman Campus Academic Misconduct Code. Grade sanctions could range from a zero for the specific assignment to an "F" for the course. University sanctions can be severe, i.e., expulsion from the University.

Policy Regarding Content of Syllabus: This syllabus is a guide. The instructor reserves the right to change any items contained in this syllabus. This includes, but is not limited to: course content, scheduled dates, and calculation of final grade.