

BMI 515/615
Ethical, Legal and Social Issues in Biomedical Informatics
2-3 credits

Spring Quarter 2014

Prerequisites:

Graduate level standing

Completion of Big Brain Training in: HIPAA, Respect at the University, Integrity Education Booster, Responsible Conduct in Research (RCR).

<http://www.ohsu.edu/xd/about/services/integrity/training/bigbrain/index.cfm>

Plagiarism: How to Recognize Plagiarism https://www.indiana.edu/~istd/plagiarism_test.html

Course Description:

The goal of this course is to introduce and sensitize students to the ethical, legal, and social issues arising in the use of electronic uses of data.

Topics will include the

- Theories and models for critical thinking in ethical decision-making
- Federal Rules and Regulations related to ethical issues in health care. e.g., HIPAA privacy and Security Rules
- Ethical issues in
 - Genomics
 - Authorship and whistleblowing
 - Funding research
 - Use of informatics technology to inform public health issues
 - Peer review
 - Data provenance and data sharing
 - Diversity and discrimination in healthcare

This course meets the ethics requirement for biomedical informatics students in the School of Medicine Graduate Program.

Instructors:

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Assistant Professor

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Course Objectives:

At the end of this course the student will be able to:

1. Perform and communicate ethical decision-making using a prescribed model.
2. Manage and implement legal and regulatory requirements mandated by HIPAA rules.
3. Develop and implement organization wide HIPAA-related policies and training programs.
4. Demonstrate an understanding of compliance and risk management when ethical behavior is not proven.
5. Demonstrate a practical understanding of critical ethical issues in biomedical informatics (as noted in topics above), and the ability to identify sources to inform ethical decision-making.

Course Format:

Weekly course materials will consist of online lectures, assigned readings, and topics for discussion. The materials will be posted each Tuesday of the course term. The weekly homework will consist of posting analyses and comments to the discussion forums on Sakai in response to a set of assigned questions. Quizzes will be given throughout course to test knowledge of theory. Informatics-related data analysis labs will be included as assignments. One or more scheduled in-person activities will be scheduled, with online participation made available.

Forum posts for each week will be graded either on a 10-point or a 15-point scale (this will be indicated each week). See below for how points will be awarded:

Points given	Description
+5	Original post was made but was not thoughtful and/or relevant
+5	Post was thoughtful and relevant
+5 (when indicated)	Relevant and thoughtful response was made to a classmate's post

Prompt discussion of weekly topics is vital for student learning. Late posts (added after the week is over) will be reduced by 50%. Upon review at the end of the course, no posts in a given week will be assigned a score of zero (0).

Grading:

This course is graded with letter grades as follows:

90 - 100: A

80 - 89.9: B

70 - 79.9: C

<70: F (note D is considered failing)

Breakdown of percentages for grading:

40% forum discussions

10% quizzes

20% final assessment

30% Individual assignments

For students taking this as **615**, an additional assignment will be provided to you by week 2.

Graduate Studies in the OHSU School of Medicine is committed to providing grades to students in a timely manner. Course instructors will provide students with information in writing at the beginning of each course that describes the grading policies and procedures including but not limited to evaluation criteria, expected time needed to grade individual student examinations and type of feedback they will provide.

Class grades are due to the Registrar by the Friday following the week of finals. However, on those occasions when a grade has not been submitted by the deadline, the following procedure shall be followed:

- 1) The Department¹ /Program Coordinator² will immediately contact the Instructor requesting the missing grade, with a copy to the Program Director and Registrar.
- 2) If the grade is still overdue by the end of next week, the Department¹ /Program Coordinator² will email the Department Chair directly, with a copy to the Instructor and Program Director requesting resolution of the missing grade.
- 3) If, after an additional week the grade is still outstanding, the student or Department¹ /Program Coordinator² may petition the Office of Graduate students for final resolution.

1 For courses that are run by a specific department.

2 For the conjoined courses (course number is preceded by CON_ that are run by Graduate Studies.

Copyright Information:

Every reasonable effort has been made to protect the copyright requirements of materials used in this course. Class participants are warned not to copy, audio, or videotape in violation of copyright laws. Journal articles will be kept on reserve at the library or online for student access. Copyright law does allow for making one personal copy of each article from the original article. This limit also applies to electronic sources.

To comply with the fair use doctrine of the US copyright law, Sakai course sites close three weeks after grades are posted with the Registrar. Please be sure to download all course material you wish to keep before this time as you will have no further access to your courses.

Student Access:

OHSU is committed to providing equal access to qualified students with disabilities. Student Access determines and facilitates reasonable accommodations, including academic adjustments and auxiliary aids, for students with documented disabilities. A qualified student with a disability is a person who meets the academic and technical standards requisite to admission or participation in a particular program of study. As defined by the Americans with Disability Act (ADA), a person with a disability has a physical or mental impairment that substantially limits one or more major life activities of the individual. This may include, but is not limited to, physical conditions, chronic health issues, sensory impairments, mental health conditions, learning disabilities and ADHD. Student Access works with students with disabilities from all of OHSU's educational programs and at each campus.

Each school has an assigned Program Accommodation Liaison (PAL), who acts as an "in-house" resource for students and faculty concerning access issues for students with disabilities. The PAL works in collaboration with Student Access to implement recommended accommodations for students with disabilities.

It is recommended that you contact Student Access to consult about possible accommodations if you a) received disability accommodations in the past, b) begin experiencing academic difficulties, and/or c) are given a new diagnosis from your healthcare provider.

Learn more about Student Access:

Phone: 503 494-0082

Email: studentaccess@ohsu.edu

Website: www.ohsu.edu/student-access

Academic Honesty:

Course participants are expected to maintain academic honesty in their course work. Participants should refrain from seeking past published solutions to any assignments. Literature and resources (including Internet resources) employed in fulfilling assignments must be cited. See

http://www.ohsu.edu/xd/education/library/research-assistance/plagiarism.cfm?WT_rank=1# for information on code of conduct for OHSU and

<http://www.ohsu.edu/xd/education/teaching-and-learning-center/for-students/index.cfm> for more information on citing sources and recognizing plagiarism.

In an effort to uphold the principles and practice of academic honesty, faculty members at OHSU may use originality checking systems such as Turnitin to compare a student's submitted work against multiple sources.

To protect student privacy in this process, it will be necessary to remove all personal information, i.e. student name, email address, student u-number, or any other personal information, from documents BEFORE submission.

Use of Sakai:

This course will have an online component, which can be accessed through Sakai, OHSU's online course management system. For any technical questions or if you need help logging in, please contact the Sakai Help Desk.

Sakai Help Desk is available:

Mon – Fri, 8 am – 10 pm

Weekends and holidays, 12 pm – 5 pm

Contact Information:

(Local) 503-494-7074 (4-7074 on campus)

(Toll-free) 877-972-5249

(Web) <http://atech.ohsu.edu/help>

(Email) sakai@ohsu.edu

Student Communication:

Students are required to adhere to the DMICE Communication Policy:

1. If the syllabus directs the student to contact the TA before contacting the instructor, the student should do so. Otherwise, the student should contact the instructor and allow 2 business days (not including weekends) for a response.
2. If the student does not receive a response from the instructor within 2 business days, s/he should contact the TA (if there is one). When contacting the TA s/he should cc the instructor and Diane Doctor at doctord@ohsu.edu.

3. If a student does not receive a response from the TA within 1 business day (not including weekends), s/he should contact Diane Doctor at doctord@ohsu.edu and cc the instructor and the TA.
4. If Diane does not reply within 1 business day (not including weekends), the student should contact Andrea Ilg at ilgan@ohsu.edu.
5. Students having difficulties with Sakai should contact the Sakai Help Desk at sakai@ohsu.edu or at (877) 972-5249. Sakai help is available M-F from 8am to 10-pm and weekends from Noon to 5pm. Do not contact the instructor.

Weekly topics (may change at the discretion of the instructors):

Week 1 Introduction to Ethics in Biomedical Informatics; Theories and models for decision-making

Week 2 Ethics and Internet use for Research

Week 3 Federal Rules and Regulations

Week 4 Ethical Issues in Funding

Week 5 Cultural Issues Affecting Ethical Decision Making

Week 6 Use of Informatics to inform public health issues

Week 7 Genomic research and ethical applications

Week 8 Peer Review, Authorship and whistle blowing

Week 9 Data provenance, data sharing, breach of PHI

Week 10 Avoiding Fraud & Abuse

Week 11 Final Assessment Due