Slide 1

Agenda

- Welcome – Dr. Karen Eden
- Introductions - All
- HCIN Program Personnel – Dr. Nicole Weiskopf
- Professional Conduct, AI, Email – Dr. Vishnu Mohan
- Q/A – All
- CI Fellowship – Dr. Vishnu Mohan

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Slide 2

New Student Orientation

Health and Clinical Informatics Graduate Program

Nicole Weiskopf, PhD
Associate Director, Health & Clinical Informatics Graduate Program
Department of Medical Informatics & Clinical Epidemiology
School of Medicine
Oregon Health & Science University
Portland, OR, USA

Slide 3

Agenda

- HCIN Program Personnel
  - Teaching Faculty
  - Education Staff
- Curriculum Overview (MS and Certificate)
- Course Specifics
- Program Resources
- University Resources
- Career Information
- Professional Conduct
- CI Fellowship

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Slide 4

Who We Are

HCIN Teaching Faculty	
Bill Hersh	James McCormack
Steven Bedrick	Vishnu Mohan
Steve Chamberlin	Ben Orwoll
Aaron Cohen	Abhijit Pandit
Karen Eden	Kathryn Pyle
Tracy Edinger	Joanne Valerius
Chris Hoekstra	Lorne Walker
Michael Lieberman	Nicole Weiskopf

Education Staff	
Andrea Ilg – Student support	Lynne Schwabe – PC, Clinical Informatics Fellowship
Monica Garlough – Administrative Coordinator	

Slide 5

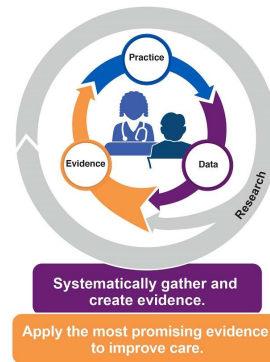# Health & Clinical Informatics (HCIN) major

- Our goal is to educate future researchers, analysts, developers and managers of health information systems, and operational leaders
- Students are provided a strong grounding in
  - clinical informatics
  - health and medicine
  - computer science
  - data science
  - organizational behavior
  - research methods
- ...so that they may assume positions that require domain knowledge of the health care environment and systems, and expertise in relevant methodological approaches

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Slide 6

Learning Health Systems

https://www.ahrq.gov/learning-health-systems/about.html

Curriculum

- Curriculum in each major for degree programs (master's and PhD) organized into domains, each of which may have courses that are
  - Required
  - Individual competency (selective)
  - Elective
- Core curriculum of degree programs is knowledge base plus additional courses
  - MS thesis = knowledge base + thesis
  - MS non-thesis = knowledge base + capstone (can be project-based or internship)
  - PhD = knowledge base + advanced coursework + dissertation

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Curriculum – organized by degree and domains, each of which have specified courses

	Graduate Certificate – 21 credits
Core Courses	Required (9 cr.) BMI 510 - Introduction to Biomedical Informatics BMI 512 – Clinical Information Systems BMI 517 – Organizational Behavior
Electives	Electives (12 cr.) Four - BMI 500 Level courses in the course catalog (ensuring any prerequisites have been met)

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Domain Names for HCIN Major	Master of Science Thesis – 55 credits, Capstone/Internship – 49 credits
Biomedical Informatics	Required (3 cr.) BMI 510 – Introduction to Biomedical Informatics Individual Competency (3 cr.) BMI 512 - Clinical Information Systems (3 cr.) BMI 516 – Standards for Interoperability (3 cr.)
Healthcare	Required (3 cr.) BMI 530 – The Practice of Healthcare Individual Competency (3 cr.) BMI 537 – Healthcare Quality BMI 538 – Medical Decision Making
Computer Science	Required (6 cr.) BMI 540 – CS and Programming for Clinical Informatics (3 cr.) BMI 544 – Databases (3 cr.) Individual Competency (3 cr.) BMI 524 – Analytics for Healthcare (3 cr.) BMI 546 – Software Engineering (3 cr.) BMI 548 – Human Computer Interaction (3 cr.)
Evaluative Sciences	Required (7 cr.) BMI 560 – Design and Evaluation in Informatics (3 cr.) BSTA 525 – Introduction to Biostatistics (4 cr.) Individual Competency (3 cr.) BMI 561 – Qualitative Research Methods (3 cr.)
Organizational Behavior and Management	Required (6 cr.) BMI 517 – Organizational Behavior and Management BMI 518 – Project Management
Thesis/Capstone/Internship Prep	Required (6 cr.) BMI 570 – Scientific Writing and Communication for Informatics BMI 576 – Managing Ethics in Biomedical Informatics
Thesis/Capstone/Internship	BMI 503 – Thesis (12 cr.) – or – BMI 580 Capstone (6 cr.) – or – BMI 591 Internship (6 cr.)

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Mapping out course of study

- Work with Andrea Ilg (and your mentor if appropriate) to plan your individual course of study.
  - Student Resources webpage has the program major requirements and curriculum forecasting sheets by degree
  - Class Information webpage has information for schedule of courses taking place during the academic year
  - Textbook information

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Course Registration

Complete registration online.

Course schedules are provided class information webpage:
https://www.ohsu.edu/school-of-medicine/medical-informatics-and-clinical-epidemiology/class-information

Forecasting worksheets are available and can be used as guidelines for planning your schedule:
https://www.ohsu.edu/school-of-medicine/medical-informatics-and-clinical-epidemiology/curriculum-forecasting

9.0+ credits = full-time student status; 5.0 credits = part-time student status.

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Course Evaluations

The Sakai Course Evaluation Tool has been created to allow increased access to the course evaluations that are a required part of the School of Medicine curriculum. The tool is built into Sakai online courses.

Course evaluations are completed on a term-by-term basis and are a required part of the curriculum.

The feedback is instrumental in faculty planning future course offerings.

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Program Resources

https://www.ohsu.edu/school-of-medicine/medical-informatics-and-clinical-epidemiology/student-resources-and-forms

- Curriculum requirements
- Information for enrolled students
- Course information (catalog, schedule, etc.)
- Rules and requirements
- Professional conduct policy

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University Resources

Sakai – Courses availability begins the Saturday prior to the beginning of the term; after 6:00 PM (Pacific time)
- https://sakai.ohsu.edu/
- Helpdesk: sakai@ohsu.edu

Office of the Registrar
- https://www.ohsu.edu/education/office-registrar
  - Academic Calendar: https://www.ohsu.edu/education/academic-calendar
  - Tuition and Fees: https://www.ohsu.edu/education/tuition-and-fees
- Email: regohsu@ohsu.edu

School of Medicine Graduate Studies
- https://www.ohsu.edu/school-of-medicine/graduate-studies
- Email: somgrad@ohsu.edu

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Thursday Research Conferences

Most Thursdays, at 11:30, the department will host an Informatics Research Conference
- An opportunity to learn about new developments in the field
- Forum for students to present proposal, symposium, defense, and research in progress talks
- Forum for faculty to present current research in progress talks
- Presentations are recorded and posted to the DMICE YouTube channel
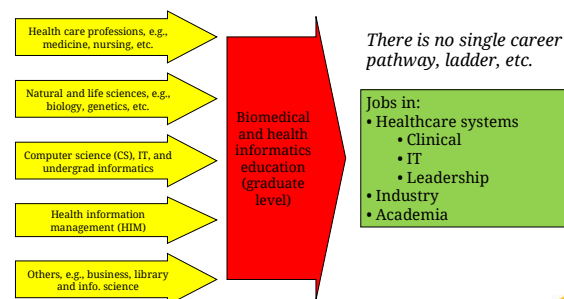
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Informatics is not a spectator sport

- Many possible "on the ground" activities available, even by virtual means
  - Faculty research projects
  - Experiences in operational settings, including within OHSU Health system
- Can be done as internship or practicum experiences, possibly evolving into more

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HCIN career pathways have diverse inputs and outputs

There is no single career pathway, ladder, etc.

Health care professions, e.g., medicine, nursing, etc.

Natural and life sciences, e.g., biology, genetics, etc.

Computer science (CS), IT, and undergrad informatics

Health information management (HIM)

Others, e.g., business, library and info. science

Biomedical and health informatics education (graduate level)

Jobs in:
- Healthcare systems
  - Clinical
  - IT
  - Leadership
- Industry
- Academia

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Some job titles and employers –

- Healthcare Data Analyst
- Quality Associate
- Physician/Clinical Informaticist
- Data Scientist
- Application System Analyst
- Data Reporting
- Chief Medical Information Officer
- User Experienced Lead
- Medical Liaison
- Clinical Safety Officer
- Consultant
- Chief Medical Advisor

- OHSU
- Providence Health System
- Kaiser-Permanente
- OCHIN
- Impact Advisors
- Genentech
- Cambia
- Schroedinger
- Stanford University
- National Library of Medicine
- Peace Health
- Amazon
- Disney

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Who to go to

In the past, students have voiced concern about where to go with problems. You should try the most direct route to get your answers.

Course issues: First go to your instructor about issues. If you do not hear from your instructor, contact your TA. If you do not hear from the TA, contact Andrea Ilg.

Program Issues: General education issues should be directed to Andrea Ilg.

Other issues: If you have issues that are NOT about coursework, but are more about administrative issues (registration, program completion, etc) contact Andrea Ilg

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Before we move to Professional Conduct, Equity and Inclusion:

•Questions?

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Communication, Professional Conduct, Equity and Inclusion

DATE: September 21, 2023 PRESENTED BY: Vishnu Mohan, MD

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Communication + OHSU Email

- Use OHSU email
- Important announcements from course/ program/ institution
- Check regularly!

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Overall Communication -Listed in Course Syllabus

DMICE COMMUNICATION POLICY

- 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.
- If the student does not receive a response from the instructor within 2 business days, please contact the TA (if there is one). When contacting the TA please cc the instructor and Andrea Ilg, ilgan@ohsu.edu
- If a student does not receive a response from the TA within 1 business day (not including weekends), please should contact Andrea Ilg, ilgan@ohsu.edu and cc the instructor and the TA.

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Overall Communication -Listed in Course Syllabus (cont.)

- 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 9 pm and weekends from Noon to 5pm. Do not contact the instructor.
- Please use professional etiquette when communicating with peers and the instructor. This means avoiding aggressive or offensive language, showing respect for others' opinions and positions, and conducting yourself as if you were face to face with them. Please pay special attention to etiquette in class forums and when using email. If you notice someone violating this policy, please make the instructor and TA aware of the problem.

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Ethical Standards
-Listed in Course Syllabus

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 Copyright at OHSU and
- https://www.ohsu.edu/school-of-medicine/medical-informatics-and-clinical-epidemiology/student-resources-and-forms for more information on citing sources and recognizing plagiarism.

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Use of "Turn-It-In"
-Listed in Course Syllabus

- 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. http://turnitin.com/

- 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.

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Complete the required training

Students are responsible for knowing and completing different policies:

- Complete Responsible Conduct of Research (RCR) in Compass at https://o2.ohsu.edu/integrity-department/conflict-of-interest/index.cfm

See also:
- Professional Conduct Policy
- How to Recognize Plagiarism
Compass Trainings listed in "Welcome" letter

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Equity and Inclusion
–Listed in Course Syllabus

COMMITMENT TO EQUITY AND INCLUSION

Oregon Health & Science University is committed to creating and fostering a learning and working environment based on open communication and mutual respect. If you encounter sexual harassment, sexual misconduct, sexual assault, or discrimination based on race, color, religion, age, national origin or ancestry, veteran or military status, sex, marital status, pregnancy or parenting status, sexual orientation, gender identity, disability or any other protected status please contact the Office of Civil Rights Investigations and Compliance (OCIC) at 503-494-5148 or ocic@ohsu.edu Inquiries about Title IX compliance or sex/gender discrimination and harassment may be directed to the OHSU Title IX Coordinator at 503-494-5148 or titleix@ohsu.edu

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Professional Conduct

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Plagiarism

Difficult words : "You plagiarized." If your TA or your Instructor indicates that you used someone else's work, without citing it in your narrative or in your reference list, contact your instructor immediately. They may discuss options with you, and/or you will be reported to the Professional Conduct Committee in DMICE

- Most complaints are handled by the Professional Conduct Committee in DMICE

- If unacceptable conduct has occurred, sanctions may be recommended, including
  - A change in grade for the course. (Note: the instructor may, in addition, change a grade on any assignment involved)
  - Letter of reprimand
  - Probation
  - Recommendation to the Dean for suspension or dismissal

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AI Policy

- Understand acceptable uses
- Follow course guidelines
- Emphasis is on learning!!

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- Questions

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Thank You

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