Orientation

Biomedical Informatics Graduate Program

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Overview of today’s activities

• Welcome, introductions and Education Overview – Dr. Bill Hersh
• Professional Conduct and Student Etiquette – Dr. Karen Eden
• Break out Sessions
  – Program Majors Overview
    • Health & Clinical Informatics – Dr. Bill Hersh
    • Bioinformatics & Computational Biomedicine – Dr. Ted Laderas
• DMICE Lounge – Student meet and greet
Department of Medical Informatics & Clinical Epidemiology (DMICE)

- One of 26 departments in OHSU School of Medicine
- Mission is to provide leadership, discovery, and dissemination of knowledge in the areas of biomedical informatics and clinical epidemiology
  - Fulfilled through programs of research, education, and service
DMICE is a national leader

- No official rankings, but OHSU informatics program is
  - 1 of 16 programs to have a National Library of Medicine NIH Training Grant for PhD and postdoctoral students
  - 1 of 9 programs funded under the Office of the National Coordinator Health IT Workforce Development Program
  - 1 of 8 programs funded by the NIH Fogarty Center Informatics Training for Global Health Program in collaboration with Hospital Italiano de Buenos Aires
  - Consistent recipient of research funding, appointment to national leadership positions, publication in high-profile journals, etc.
  - Highly accomplished alumni productive in many different settings

- Clinical epidemiology program also highly successful, especially in areas of systematic reviews/meta-analysis and evidence-based practice
And a leader for a sustained time

International students from (among others): Singapore, Thailand, Argentina, Egypt, Israel, Saudi Arabia, Zimbabwe, China, and more

<table>
<thead>
<tr>
<th>Degree</th>
<th>Total</th>
<th>BCB</th>
<th>HCIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cert</td>
<td>467</td>
<td>0</td>
<td>467</td>
</tr>
<tr>
<td>MS</td>
<td>374</td>
<td>54</td>
<td>320</td>
</tr>
<tr>
<td>PhD</td>
<td>31</td>
<td>11</td>
<td>20</td>
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<tr>
<td>Total</td>
<td>872</td>
<td>65</td>
<td>807</td>
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Program faculty and leadership

• Overall program director – William Hersh, MD

• Leadership
  – William Hersh, MD – HCIN
  – Shannon McWeeney, PhD – BCB
  – Karen Eden, PhD – PhD program

• Over 30 other faculty who teach, advise, mentor projects, etc.
OHSU informatics program provides value

• For tuition and fees comparable to other programs, get
  – Cutting-edge curriculum based on solid foundation
  – Faculty who are international leaders in research and practice
  – Internship/practicum experience
  – Career development and advising
  – Connections to industry and others
OHSU Biomedical Informatics Graduate Program

• [http://www.ohsu.edu/informatics/](http://www.ohsu.edu/informatics/)

• Overall goal of program is to train future professionals, researchers, and leaders in area of biomedical and health informatics
  – Majors focus on different areas of larger field
  – All programs at graduate level, i.e., require a baccalaureate degree
Program majors (formerly tracks)

• HCIN
  – Original track/major, focused on informatics and applied data analytics in health, healthcare, public health, and clinical research settings

• BCB
  – Focused on methods and deep analytics applied across omics, imaging, clinical medicine, and public health
Degrees and certificates

• Doctor of Philosophy (PhD)
  – For those who wish to pursue research, academia, or leadership careers

• Master of Science (MS) thesis
  – Research master’s, including for those with doctoral degrees in other fields who wish to pursue research careers

• Master of Science (MS) non-thesis
  – Professional master’s degree for practitioners and leaders

• Graduate Certificate
  – Subset of master’s degree as an introduction or career specialization (HCIN major only)
## Building block approach

<table>
<thead>
<tr>
<th><strong>Masters</strong></th>
<th><strong>PhD</strong></th>
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<tbody>
<tr>
<td>- Courses in domains:</td>
<td>- Courses in domains:</td>
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<tr>
<td>- Health &amp; Clinical Informatics</td>
<td>- HCIN</td>
</tr>
<tr>
<td>- Bioinformatics &amp; Comp Biomed</td>
<td>- BCB</td>
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<tr>
<td>- Thesis or Capstone</td>
<td>- Knowledge Base</td>
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<td></td>
<td>- Advanced Research Methods</td>
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<td></td>
<td>- Biostatistics</td>
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<td>- Cognate</td>
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<td>- Doctoral Symposium</td>
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<td></td>
<td>- Mentored Teaching</td>
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<td></td>
<td>- Dissertation</td>
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<table>
<thead>
<tr>
<th><strong>Graduate Certificate</strong></th>
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<tr>
<td>- Courses in domains:</td>
<td>- Our introductory course</td>
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<tr>
<td>- HCIN</td>
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# Majors, degrees and certificates, and availability

<table>
<thead>
<tr>
<th>Degree/Certificate Major</th>
<th>PhD</th>
<th>MS thesis</th>
<th>MS non-thesis</th>
<th>Grad Cert</th>
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</thead>
<tbody>
<tr>
<td>HCIN</td>
<td>On-campus</td>
<td>On-campus</td>
<td>On-campus On-line</td>
<td>On-campus On-line</td>
</tr>
<tr>
<td>BCB</td>
<td>On-campus</td>
<td>On-campus</td>
<td>On-campus</td>
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All "on-campus" programs currently on-line due to COVID-19
DMICE online

• DMICE seminars
  – YouTube
    • https://www.youtube.com/channel/UCCekPERb6i3xXEDQxwIeIA

• Web and blog
  – Web
    • http://www.ohsu.edu/informatics
  – Blog
    • http://www.ohsu.edu/blogs/health-data/

• Social media
  – Twitter
    • @OHSUInformatics
  – LinkedIn
    • https://www.linkedin.com/groups/962257/
  – Facebook
    • https://www.facebook.com/ohsu.informatics