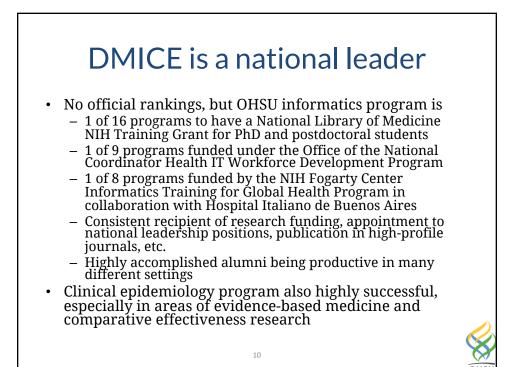


#### Department of Medical Informatics & Clinical Epidemiology (DMICE)

- 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
- Department leadership
  - William Hersh, MD Chair
  - Cynthia Morris, PhD Vice Chair for Education and Training
  - Joan Ash, PhD Vice Chair for Faculty Development
  - Shannon McWeeney, PhD, Head, Division of Bioinformatics & Computational Biology
  - David Dorr, MD, MS Vice Chair for Clinical Informatics
  - Heidi Nelson, MD, MPH Vice Chair for Clinical Epidemiology

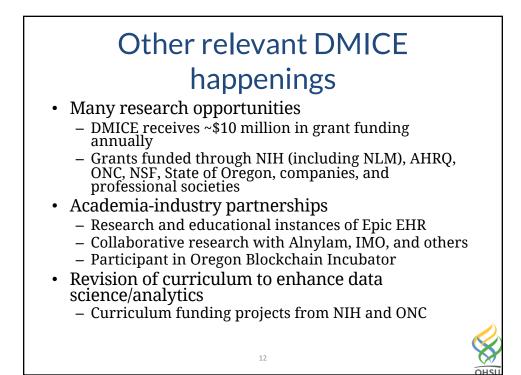


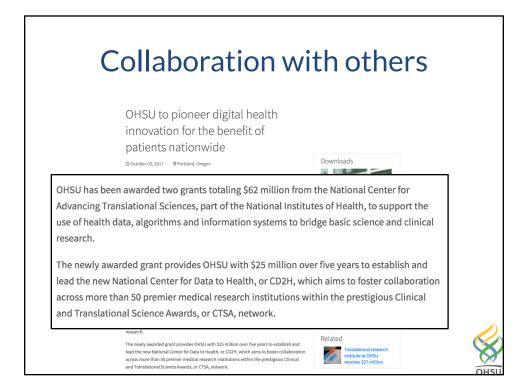
# MEDICAL INFORMATICS & CLINICAL EPIDEMIOLOGY

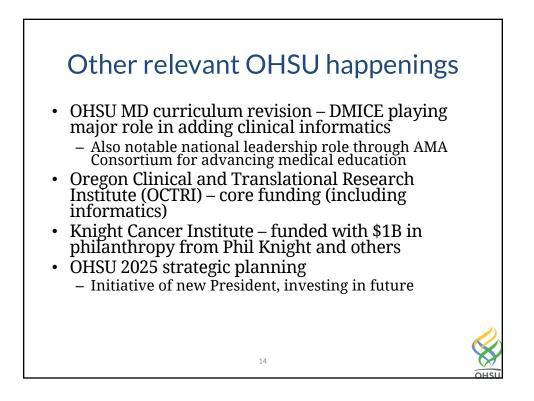


### Rooted in Techlandia https://joom.ag/YYCe/p18



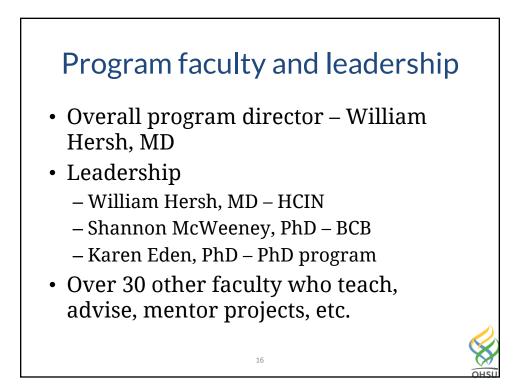


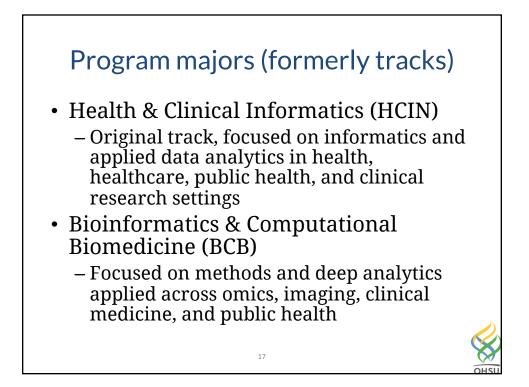




## OHSU Biomedical Informatics Graduate Program

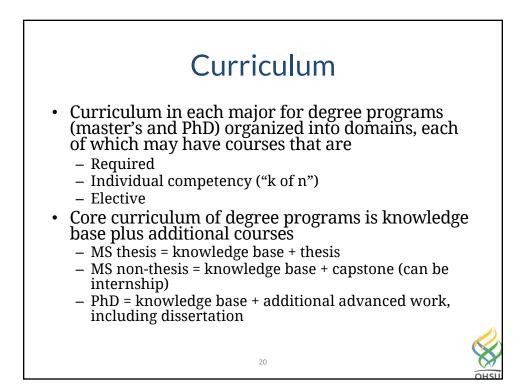
- <u>http://www.ohsu.edu/informatics/</u>
- Overall goal of program is to train future professionals, researchers, and leaders in area of biomedical and health informatics
  - Majors focus on different areas of larger field
  - All programs at graduate level, i.e., require a baccalaureate degree
- Diverse students who typically fall into one of two categories
  - "First-career" students more likely to be full-time, oncampus, and from variety of backgrounds
  - "Career-changing" students likely to be part-time, distance, mostly (though not exclusively) from healthcare professions





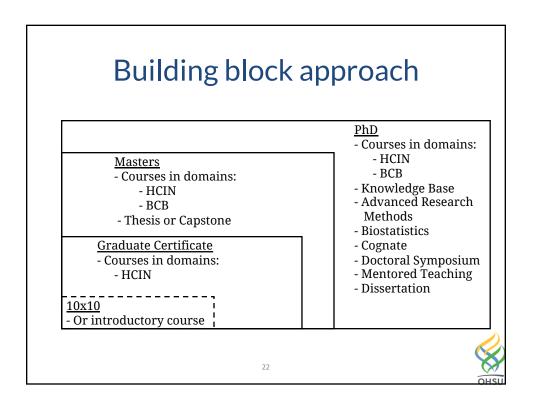


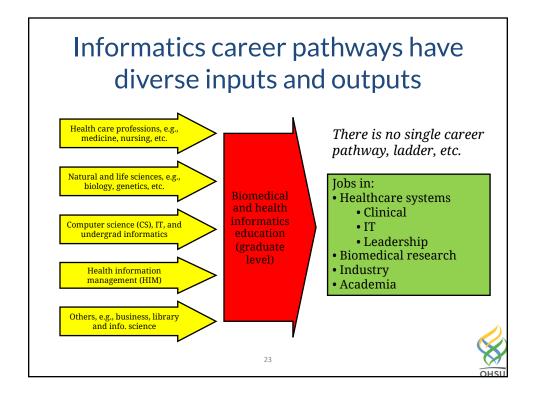
Degree/Certificate Major	PhD	MS thesis	MS non- thesis	Grad Cert
HCIN	On- campus	On- campus	On- campus On-line	On- campus On-line
BCB	On- campus	On- campus	On- campus	

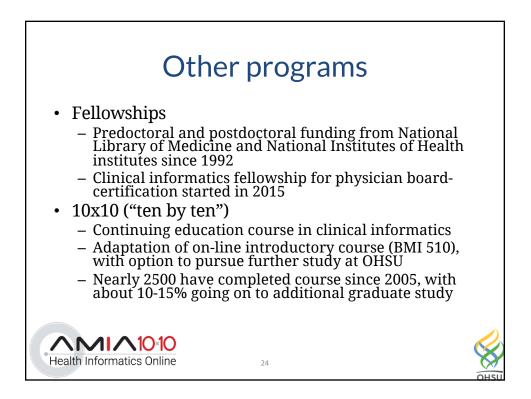


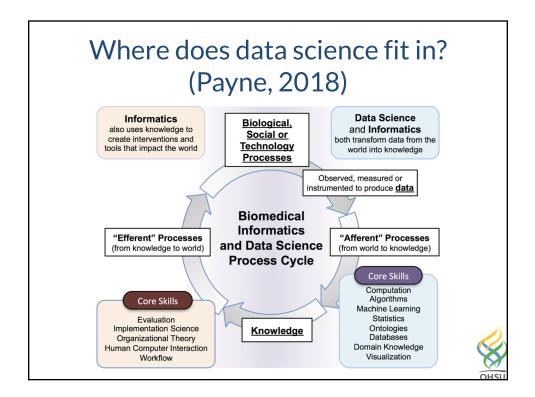
#### Curriculum – organized by domains, each of which have courses

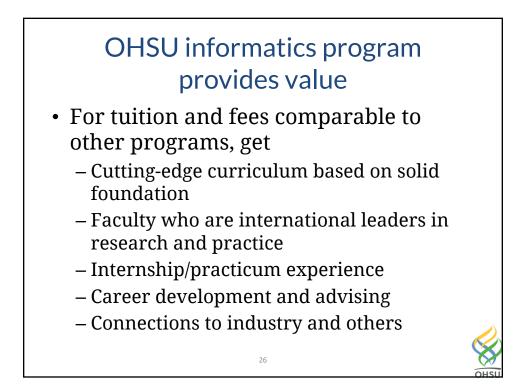
High-Level Competency	Domain Names for HCIN Major	Domain Names for BCB Major
Apply core concepts of using data, information, and knowledge to advance health	Health & Clinical Informatics	Bioinformatics & Computational Biomedicine
and biomedicine		
Apply knowledge of appropriate area(s) of health and biomedicine to informatics practice and research	Health Care	Biomedical Science
Apply computing skills to biomedical informatics	Computer Science	Computer Science
Apply quantitative methods to biomedical informatics	Evaluative Sciences	Biostatistics
Apply people and organizational knowledge to informatics	Organizational Behavior and Management	N/A
Apply advanced scholarship to biomedical and health informatics	Thesis/Capstone/Dissertation Requirements	Thesis/Capstone/Dissertation Requirements
	21	(

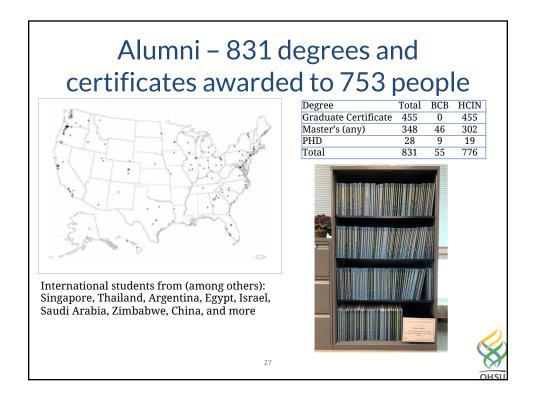






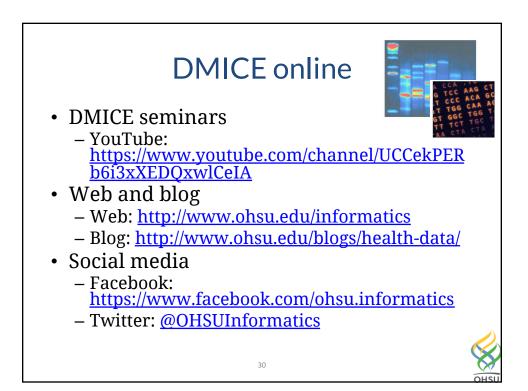






<ul> <li>Product manager</li> <li>Data analyst</li> <li>Informatics researcher</li> <li>Consultant</li> <li>Project manager</li> <li>Terminology engineer</li> </ul>	<ul> <li>OHSU</li> <li>Providence Health System</li> <li>Kaiser-Permanente</li> </ul>
<ul> <li>Software engineer</li> <li>Chief medical informatics officer</li> <li>Information systems manager</li> <li>Bioinformatician</li> <li>Database administrator/architect</li> <li>Faculty</li> </ul>	<ul> <li>OCHIN</li> <li>Impact Advisors</li> <li>Health Share of Oregon CCO</li> <li>Epic</li> <li>Cerner</li> <li>Intel</li> <li>Sutter Health</li> <li>National Library of Medicine</li> <li>Harvard Medical School</li> <li>University of Virginia</li> </ul>

Degree/ Major	BCB	HCIN	Total
Certificate			
PhD	12	5	17
MS Thesis	16	3	19
MS Non-Thesis	1	34	35
Graduate Certificate	N/A	24	24
Total	29	66	95
(Does not include late 1	egistrants or th	ose on Leave of	Absence)

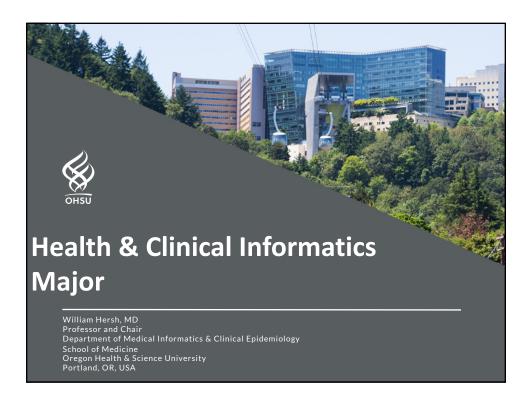


#### Thank You!

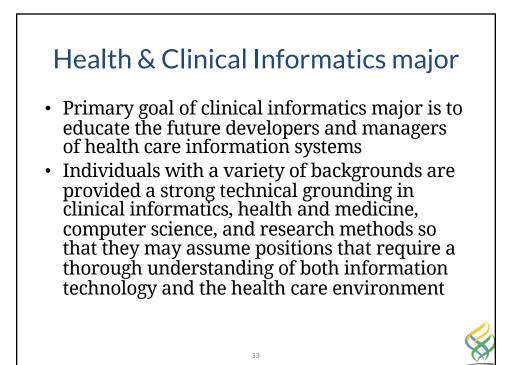
William Hersh, MD Professor and Chair Department of Medical Informatics & Clinical Epidemiology School of Medicine Oregon Health & Science University Portland, OR, USA

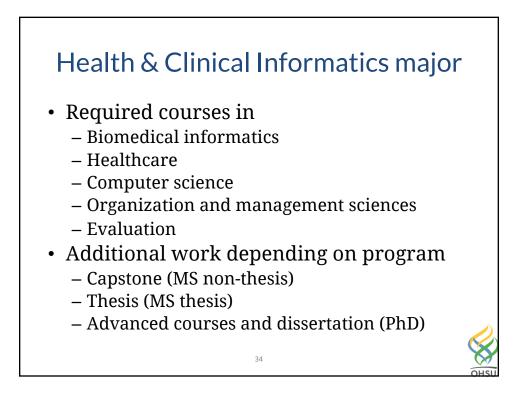
Email: <u>hersh@ohsu.edu</u> Web: <u>www.billhersh.info</u> Blog: <u>http://informaticsprofessor.blogspot.com</u> Twitter: <u>@williamhersh</u>





31





# A growing understanding of the work of informatics professionals

Domains	Task statements	KS statements
Domain 1. Foundational Knowledge and Skills	NA	31
Domain 2. Enhancing Health Decision-making, Processes, and Outcomes	11	21
Domain 3. Health Information Systems	26	36
Domain 4. Data Governance, Management, and Analytics	17	28
Domain 5. Leadership, Professionalism, Strategy, and Transformation	20	28
Total	74	144
Clinical Informatics Subspecialty (CIS) Domains	Task statements	KS statements
		KS statements
		KS statements
Domains	statements	
Domains Domain 1. Foundational Knowledge and Skills	statements NA	26
Domains Domain 1. Foundational Knowledge and Skills Domain 2. Improving Care Delivery and Outcomes Domain 3. Enterprise Information Systems	statements NA 7	26 28
Domains Domain 1. Foundational Knowledge and Skills Domain 2. Improving Care Delivery and Outcomes	statements NA 7 16	26 28 33
Domain 1. Foundational Knowledge and Skills Domain 2. Improving Care Delivery and Outcomes Domain 3. Enterprise Information Systems Domain 4. Data Governance and Analytics	statements NA 7 16 10	26 28 33 27

