SUNY Oswego – Faculty Assembly

NEW PROGRAM - BHI

Official Name of Program: **Biomedical and Health Informatics (BHI)**

Official Program Code (on campus) / HEGIS Code:

Description of program:

The following is composed of extracts of the full BHI proposal which is available for review online at *http://cs.oswego.edu/~bichinda/HealthMasters.pdf*

SUNY Oswego is proposing to offer a Master of Science degree program in Biomedical and Health Informatics. The proposed Master's in Biomedical & Health Informatics (BHI) combines SUNY Oswego's existing Computer Science programs with specialized health sciences, health informatics and health information management coursework. The framework for the program's curriculum is guided by CAHIIM[1], the preeminent accrediting body for graduate health informatics and health information management education.

The proposed program will address the revolutionary shifts the healthcare system is currently undergoing. According to recent trends, the projected landscape of healthcare and wellness involves the following tech-enhanced facets: the coming of globally connected digital health networks and the advance of ubiquitous intelligent agents (BHI Health Informatics Track), and the harnessing of Big Data and decision analytics (BHI Health Information Management Track). A third track will provide students with advanced training in health informatics, while simultaneously developing workplace skills highly valued by employers (BHI Health Informatics Professional Track or Health Informatics PSM Track). The synergistic effect of tech-enabled globally connected health networks, ubiquitous intelligent agents, and Big Data and decision analytics will dramatically improve health outcomes through patient engagement, prevention, and education.

The program's educational objective is to provide students with a high quality degree which meets all CAHIIM's criteria for Health Informatics and for Health Information Management accreditation (see the full proposal). The program' mission is to educate students to effectively analyze, design, integrate, and manage health information systems using information technology for scientific inquiry, problem solving, and decision making, motivated by efforts to improve human health. This program will provide a significant educational alternative to what is offered by private universities.

Additional information that would be useful to FA

The program proposal provides a more detailed description of the program.

All courses will be delivered online but with the possibility of hyflex class participation either at SUNY Oswego or at the Metro Center. Courses delivered online will use asynchronous and synchronous formats as required.

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[1] Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)

Proposed program catalog copy

Proposed Biomedical and Health Informatics MS Degree	33-36 sh
<u>Foundation</u>*	0-3 sh
BHI 552 Biomedical and Health Terminologies	3

       *Foundation courses are prerequisites to selected BHI Core courses and may be waived based on prior academic or professional experience.

<u>Core</u>	12 sh
BHI 501 Introduction to Biomedical Information Systems	3
BHI 502 Health Informatics Methods	3
BHI 503 eHealth Systems	3
BHI 504 Systems Design, Integration, Safety & Security	3
<u>Health Informatics / Intelligent Health Systems Track</u>	21 sh
A. Core	9 sh
BHI 505 Digital Health	3
BHI 506 Decision Support & Intelligent Systems	3
BHI 507 Quality Assurance Informatics	3
B. Electives	6 sh
BHI / HCI electives under advisement	6
C. One of the following two courses	6 sh
BHI 699 Project in BHI	6
BHI 700 Master's Thesis in BHI	6
<u>Health Information Management / Health Data Science Track</u>	21 sh
A. Core	9 sh
BHI 508 Database Applications	3
BHI 509 Data Analytics	3
BHI 510 Geospatial, Temporal & Text Analytics	3
B. Electives	6 sh
BHI / HCI electives under advisement	6
C. One of the following two courses	6 sh
BHI 699 Project in BHI	6
BHI 700 Master's Thesis in BHI	6
<u>Health Informatics Professional Track</u>	21 sh
A. Core	9 sh
MBA 517 Organizational Management: A Global Perspective	3
BHI 506 Decision Support & Intelligent Systems[2]	3
BHI 507 Quality Assurance Informatics	3
B. Electives	6 sh
MBA electives under advisement	6
C. Graduate Internship	6 sh
BHI 698 Graduate Internship in BHI	6

The duration of study depends on foundation requirements and prior academic or professional experience. A full-time student, taking 9 Credits each academic semester, will be able to complete their studies in no more than 2 years.

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[2] or another advisor approved graduate BHI course