Academic Assessment Plan

University of Florida

Academic Affairs

Academic Colleges

College of Medicine

Certificates

####### Biomedical Informatics

Certificate in Biomedical Informatics Mission

The mission of the Biomedical Informatics Certificate program is to train a diverse workforce of professionals, researchers, and leaders, with multidisciplinary training in computer science, health and medicine, biostatistics, data science and analytics, engineering, and research methodology.

The mission of the UF College of Medicine is to develop excellent physicians, scholars, scientists, physician assistants and professional staff who will contribute to the advancement of medical science and provide compassionate care of the highest quality for patients. We are committed to a diverse and inclusive environment, attracting the best minds to learn, discover, heal and ameliorate human suffering. To achieve this mission UFCOM aspires to the following goals:

1. Recruit a highly competent, empathetic, service-oriented and diverse group of students, scientists, scholars, physicians and professional staff and educate all to become and remain exemplary practitioners and academicians who adhere to the highest professional standards.
2. Aspire to achieve national and international preeminence in scholarly research. Foster discovery and innovation in medical science and health care by developing interdisciplinary teams of basic science and clinical researchers to conduct meaningful investigations that impact the prevention and diagnosis of disease, facilitate improved treatments, and enhance the quality of life for individuals locally, nationally and globally.
3. Treat patients with comprehensive, evidence-based, state-of-the-art and cost-effective methods. Promote health, prevent disease and educate the public.
4. Promote organizational excellence, professional development and advancement.

The mission of the University of Florida is to enable our students to lead and influence the next generation and beyond for economic, cultural and societal benefit. The university welcomes the full exploration of its intellectual boundaries and supports its faculty and students in the creation of new knowledge and the pursuit of ideas through teaching, research and scholarship, and service.

Responsible Roles: Research Assistant Professor (Walker, Ashby), Associate Professor (Modave , Francois)
Program: Biomedical Informatics
Progress: Ongoing

PG1: Overall Goal

To provide a certificate program to serve individuals who want to expand their knowledge and foundational multidisciplinary skills to prepare them for work in the field of biomedical informatics.

Evaluation Method
The number of applications, number of students accepted, and matriculation data.

Responsible Role: Research Assistant Professor (Walker, Ashby), Associate Professor (Modave , Francois)
Progress: Ongoing

SLO1: Knowledge
Identifies, describes, and explains key concepts, study designs, and research methodologies necessary to conduct research in biomedical informatics.

SLO Area (select one): Knowledge (Grad)
Responsible Role: Research Assistant Professor (Walker, Ashby), Associate Professor (Modave , Francois)
Progress: Ongoing

Assessment Method
Oral project presentation and written research project description in the required Foundations of Biomedical Informatics course (GMS6850).

SLO2: Skills
Discovers, produces, manipulates, computes, and interprets heterogeneous data sets relevant to biomedical informatics problems.

SLO Area (select one): Skills (Grad)
Responsible Role: Research Assistant Professor (Walker, Ashby), Associate Professor (Modave , Francois)
Progress: Ongoing

Assessment Method
Programming assignment, written research project, and oral project presentation in the required Foundations of Biomedical Informatics course (GMS6850).

Certificate in Biomedical Informatics AAP Detail
Start: 7/1/2016
End: 6/30/2017
Progress: Ongoing
Providing Department: Biomedical Informatics
Responsible Roles: Research Assistant Professor (Walker, Ashby), Associate Professor (Modave , Francois)

Research (Graduate and Professional AAPs only)
Students focus on developing a theoretical and practical understanding of a wide range of informatics-related topics in biology, healthcare, and public health, and on their applications to improving health-related outcomes through: analyzing problems and producing solutions, creating new paradigms, frameworks and processes to address BMI problems, working effectively and efficiently in a multidisciplinary setting, and

dissemination new information and knowledge acquired in the field to experts and non-experts alike.

Assessment Timeline (Graduate and Professional AAPs only)

Curriculum Map (UG AAPs only)

Assessment Cycle (All AAPs)
Analysis and Interpretation: From August to June

Improvement Actions: Completed by August 31st

Dissemination: Completed by September 30th

Year SLOs	14-15	15-16	16-17	17-18	18-19	19-20
Content Knowledge						
SLO#1: Identifies, describes, and explains key concepts			X	X	X	X
Skills						
SLO#2: Discovers, produces, manipulates, computes, and interprets data			X	X	X	X

Methods and Procedures (UG and Certificate AAPs)
A range of assessment tools are used to evaluate achievement for the SLOs. The Education Committee will assess research protocols for each student using a common rubric. This allows for consistent assessment by the same group of faculty of achievement of SLOs across the students. For knowledge, the Education Committee will assess one research protocol. In addition, skills will be assessed via a programming assignment, written research project, and oral project presentation.

SLO Assessment Rubric (All AAPs)
The rubric for the BMI Certificate is attached.

Biomedical Informatics Certificate_Rubric

Measurement Tools (Graduate and Professional AAPs Only)

Assessment Oversight (All AAPs)

Name	Department Affiliation	Email Address	Phone Number
Ashby Walker, Ph.D.	HOP	afwalker@ufl.edu	352-627-9138
Francois Modave, Ph.D	HOP	modavefp@ufl.edu	352-294-5984
William Hogan, M.D.	HOP	hoganwr@ufl.edu	352-294-4197
Sandra Salloum, M.Ed.	HOP	sandrasalloum@ufl.edu	352-294-8412

Academic Assessment Plan Entry Complete: ☑