Leadership
Keith Lindor, MD   Executive Vice Provost and Dean, College of Health Solutions
George Runger, PhD   Interim Chair, Department of Biomedical Informatics

Overview
The role of biomedical informatics, the field in which computer science, information technology, probabilistic reasoning, cognitive science, and other quantitative and technical methods and skills are applied to biomedicine and health care delivery, is increasingly recognized as essential for progress in health organizations.

The Department of Biomedical Informatics is housed at the Mayo Clinic Arizona in north Scottsdale and offers master's and PhD degrees in biomedical informatics. Students learn problem-solving, theory, and methodologies from academic researchers, clinical practitioners, and regional health care providers. Faculty provide substantial instruction in cross-cutting areas such as data and knowledge representation, human-computer interaction, and predictive modeling.

The department partners with health leaders like the Banner Health, Barrow Neurological Institute, Mayo Clinic, among others, to infuse the program with practical research mandates and clinical relevance that reinforce a standard of excellence and leadership.

Facts
- Faculty research projects are funded by a nationally competitive sponsors and health care providers.
- In 2012, the department joined the College of Health Solutions.
- In fall 2008, the first class of doctoral students in biomedical informatics began.

Research
Research in biomedical informatics promotes collaboration among computer scientists, engineers, mathematicians, biologists, clinicians, and decision scientists. Examples of current research projects include:
- Biomarker-Based Radiation Dosimetry Project (Focus: Bioinformatics)
- Model-Driven, Visual (Rule) Editor (Focus: Clinical Informatics)
- Highly Efficient Carotid Intima-Media Thickness Image Interpretation (Focus: Imaging Informatics)
- Can Tweets and Posts Tell Us About Adverse Drug Events? (Focus: Population Health Informatics)

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