



UNIVERSITY OF DELAWARE

**MASTER'S PROGRAM IN
BIOINFORMATICS &
COMPUTATIONAL BIOLOGY**

RESOLUTION STATEMENT

OCTOBER 18, 2009

PROVISIONAL APPROVAL OF NEW PROGRAMS -- RESOLUTION

MASTER OF SCIENCE IN BIOINFORMATICS & COMPUTATIONAL BIOLOGY

WHEREAS,

- The program will contribute to the scholarly and educational missions of the University—to *disseminate scientific, humanistic, and social knowledge for the benefit of the larger society* and to produce graduates who *are prepared to contribute to a global society, addressing the critical needs of the state, nation and global community.*
- The program will provide a new graduate degree in a discipline essential for University of Delaware as a major research university—there are presently about 100 bioinformatics-related degree programs in the United States.
- The program will foster multi- and interdisciplinary research and educational collaboration across campus, providing a critical component to University's strategic priorities in energy, environment, and life and health sciences, and serving as a pillar of UD's *Path to Prominence.*
- The program will build upon the research strength, education resources and bioinformatics infrastructure from ten participating Departments across the Colleges of Arts & Sciences, Engineering, Agriculture & Natural Resources, and Earth, Ocean & Environment, as well as from the Delaware Biotechnology Institute and the newly established Center for Bioinformatics & Computational Biology.
- The *Master of Science degree* will prepare students for advanced research in bioinformatics and computational biology, playing a key role in multi- and interdisciplinary research teams.
- The *Computational Sciences Concentration* will allow students with strong quantitative sciences background to gain solid knowledge and research experience in developing computational methods and bioinformatics tools and databases for the study of biological systems. The *Life Sciences Concentration* will allow students with strong biological background to gain solid knowledge and research experience in applying bioinformatics methods, tools and databases as an integral approach to life science research.

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new program leading to the *M.S. degree in Bioinformatics and Computational Biology*, effective September 1, 2010.

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new program entitled *Master of Science in Bioinformatics and Computational Biology (BICB-MS)*, *Computational Sciences Concentration (CS)*, effective September 1, 2010.

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new program entitled *Master of Science in Bioinformatics and Computational Biology (BICB-MS)*, *Life Sciences Concentration (LSC)*, effective September 1, 2010.

PROVISIONAL APPROVAL OF NEW PROGRAMS -- RESOLUTION

PROFESSIONAL SCIENCE MASTER'S IN BIOINFORMATICS

WHEREAS,

- The program will contribute to the scholarly and educational missions of the University—to *disseminate scientific, humanistic, and social knowledge for the benefit of the larger society* and to produce graduates who *are prepared to contribute to a global society, addressing the critical needs of the state, nation and global community.*
- The program will provide a new graduate degree in a discipline essential for University of Delaware as a major research university and position UD as a regional leader in bioinformatics professional education.
- The program will foster multi- and interdisciplinary research and educational collaboration across campus, providing a critical component to University's strategic priorities in energy, environment, and life and health sciences, and serving as a pillar of UD's *Path to Prominence.*
- The program will build upon the research strength, education resources and bioinformatics infrastructure from ten participating Departments across the Colleges of Arts & Sciences, Engineering, Agriculture & Natural Resources, and Earth, Ocean & Environment, as well as from the Delaware Biotechnology Institute and the newly established Center for Bioinformatics & Computational Biology.
- The *Professional Science Master's degree* will well prepare students for a bioinformatics professional career in industry, business, government agencies, or non-profit organizations, playing a key role in multi- and interdisciplinary teams.
- The *Computational Sciences Concentration* will allow students to gain solid knowledge and industry experience in developing bioinformatics methods, tools and/or databases for modern biotechnology or medicine. The *Life Sciences Concentration* will allow students to gain solid knowledge and industry experience in applying bioinformatics methods, tools and databases as an integral approach to modern biotechnology and medicine.

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new program leading to the *P.S.M. degree in Bioinformatics*, effective September 1, 2010.

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new program entitled *Professional Science Master's in Bioinformatics (BINF-PSM), Computational Sciences Concentration (CSI)*, effective September 1, 2010.

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new program entitled *Professional Science Master's in Bioinformatics (BINF-PSM), Life Sciences Concentration (LSCI)*, effective September 1, 2010.

PROVISIONAL APPROVAL OF NEW PROGRAMS -- RESOLUTION

GRADUATE CERTIFICATE IN BIOINFORMATICS

WHEREAS,

- The program will contribute to the scholarly and educational missions of the University—to *disseminate scientific, humanistic, and social knowledge for the benefit of the larger society* and to produce graduates who *are prepared to contribute to a global society, addressing the critical needs of the state, nation and global community*.
- The program will provide a new graduate certificate in a discipline essential for University of Delaware as a major research university—there are presently about 100 bioinformatics-related degree programs in the United States.
- The program will foster multi- and interdisciplinary research and educational collaboration across campus, providing a critical component to University's strategic priorities in energy, environment, and life and health sciences, and serving as a pillar of UD's *Path to Prominence*.
- The program will build upon the research strength, education resources and bioinformatics infrastructure from ten participating Departments across the Colleges of Arts & Sciences, Engineering, Agriculture & Natural Resources, and Earth, Ocean & Environment, as well as from the Delaware Biotechnology Institute and the newly established Center for Bioinformatics & Computational Biology.
- The *Graduate Certificate* will provide bioinformatics core competency, ideally suited for working professionals as a stepping stone and for current graduate students at UD to gain bioinformatics skills.
- The *Computational Sciences Concentration* will allow students to gain knowledge and skills in developing bioinformatics methods, tools and/or databases for modern biotechnology or medicine. The *Life Sciences Concentration* will allow students to gain knowledge and skills in applying bioinformatics methods, tools and databases as an integral approach to modern biotechnology or medicine.

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new program leading to the *Graduate Certificate in Bioinformatics*, effective September 1, 2010.

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new program entitled *Graduate Certificate in Bioinformatics (BINF-CERT)*, *Computational Sciences Concentration (CS2)*, effective September 1, 2010.

RESOLVED, that the Faculty Senate approves provisionally, for four years, the establishment of a new program entitled *Graduate Certificate in Bioinformatics (BINF-CERT)*, *Life Sciences Concentration (LSC2)*, effective September 1, 2010.