

Biomedical Sciences (MS)

Degree Requirements

The Master of Science in Biomedical Sciences degree is a one-year, non-thesis degree designed to enhance the scientific foundation and academic credentials of students who seek further academic training or employment in the health and biomedical fields.

Each applicant must be qualified for admission to the University of South Alabama Graduate School with a bachelor's degree from an accredited institution of higher education. Additional requirements also include:

1. An undergraduate minimum GPA of 3.0 is required for regular admission. Conditional admission may be granted in certain cases for lower GPAs.
2. Undergraduate degrees should be from disciplines related to biomedical sciences or other STEM disciplines.
3. An appropriate advanced degree may be used in lieu of other requirements for Regular Standing.
4. Submission of scores on the GRE is required for admission. Alternative exam scores (e.g. MCAT) will also be considered on a case by case basis.
5. Official transcripts from all institutions attended.
6. Two letters of recommendation attesting to the prospective student's scholarship and potential for success in a graduate program.

A Statement of Purpose that reflects the rationale for the chosen graduate program and includes examples of personal and professional experience relevant to the program.

Graduation Plan

Biomedical Sciences (MS) : (30 Total Hours)

Fall Semester

Course ID	Course Description	Hours
SLPS 510	Research Design	3
GIS 501	Respon. Conduct of Research	1
BMD 500	Graduate Seminar	2
BMD xxx	Elective	3
Total Hours		9

Spring Semester

Course ID	Course Description	Hours
BMD 508	Gross Anatomy	4
BMD 594	Directed Studies	3
BMD 500	Graduate Seminar	2
BMD xxx	Elective	3

Total Hours	12
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Summer Semester

Course ID	Course Description	Hours
BMD 507	Advanced Physiology	4
BMD 500	Graduate Seminar	2
BMD xxx	Elective	3
Total Hours		9

*See degree requirements

Department Information

Biomedical Sciences Administrative Staff	(251) 445-9265
Chair	Nancy Rice
Professors	Rice
Professor Emeritus	Covey, Davis, Spector, Turrens
Associate Professor Emeritus	Stanfield
Associate Professors	Mockett, Ravine, Shokolenko, Thulasiraman
Assistant Professors	Gorelik, Swiger
Instructors	Henry

Department of Biomedical Sciences website
<https://www.southalabama.edu/colleges/alliedhealth/biomedical>

The Department of Biomedical Sciences educates students for successful health-related careers by providing instruction in core scientific content, encouraging critical thinking and providing active collaboration; it engages in hypothesis-driven research, embraces global diversity, and guides students to become life-long learners dedicated to enriching the scientific and healthcare community. The curriculum offers students a strong general education in the humanities, arts, and social sciences, followed by in-depth study in one of three concentrations: Pre-Health Professional Health (PHP), Biotechnology, and Public and Global Health. The program offers an optional Honors Research Thesis (BMD 499) to qualified students consisting of a laboratory apprenticeship in biomedical research under the mentorship of a faculty scientist. Students interested in the Honors Research Thesis option should contact Dr. Robin Mockett for information.

Concentrations

Pre-Health Professional (PHP)

The PHP concentration provides a strong foundation in basic human sciences, with corollary work in chemistry, math, and statistics. The PHP concentration prepares students to pursue post baccalaureate educational experiences in any biomedical discipline, including medicine, dentistry, pharmacy, optometry, as well as a Ph.D. degree in a variety of health and science related fields. In addition, this concentration offers prerequisite coursework for students wishing to pursue programs in the Pat Capps Covey College of Allied Health Professions.

Biotechnology (BT)

The BT concentration provides a strong foundation in basic human sciences, with an emphasis on fundamental concepts of genetics, molecular biology, and recombinant DNA technology. The core requirements have a strong applied skill-based laboratory component that further reinforces theoretical concepts. The BT concentration prepares students for entry level biotechnology jobs or post-graduate (M.S. and Ph.D.) research programs.

Public And Global Health (PGH)

The PGH concentration offers students interested in healthcare careers with a foundational knowledge of those challenges that limit the provision of health care globally. This concentration provides a strong foundation in basic human sciences, corollary work in chemistry, math, and statistics, and adds a multi-disciplinary exploration into key factors important to health and disease in resource limited areas. Students in the PGH concentration will gain knowledge of public health, global diseases, international healthcare systems, and introduction to epidemiology, as well as a basic knowledge of those social and environmental factors that impact health and disease in vulnerable populations. A BMD degree with a concentration in PGH prepares students for a tremendous diversity of graduate programs and careers in scientific research, public health, global health education, and jobs in industry and government laboratories (CDC).