

5-13-1993

SR-92-93-(110)256 (GR)

Marshall University

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#### Recommended Citation

Marshall University, "SR-92-93-(110)256 (GR)" (1993). *Recommendations*. 1198.  
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**GRADUATE COMMITTEE  
Recommendation**

**SR-92-93-(110)256 (GR)**

To adopt the attached amended description of the biomedical sciences program for inclusion in the Graduate Catalog.

**FACULTY SENATE PRESIDENT:**

APPROVED BY SENATE: Robert Sawrey DATE: 5-13-93

DISAPPROVED BY SENATE: \_\_\_\_\_ DATE: \_\_\_\_\_

**UNIVERSITY PRESIDENT:**

APPROVED: [Signature] DATE: 5-24-93  
DISAPPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

**COMMENTS:**

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## BIOMEDICAL SCIENCES

The Basic Science Departments of the School of Medicine offer a program leading to the Master of Science and Doctor of Philosophy degrees in Biomedical Sciences.

Students who wish to enroll in the Biomedical Sciences Graduate Program must apply for admission through the Graduate School. They must meet the admission requirements of the Graduate School and the Graduate Studies Committee of Marshall University School of Medicine. Interested persons should contact the Director of Graduate Studies, Biomedical Sciences Graduate Program, Marshall University School of Medicine, Huntington, WV 25755.

Applicants for the Biomedical Sciences Graduate Program should have one year of collegiate preparation in each of the following: general biology, general physics, general chemistry and organic chemistry, all with associated laboratories. Although calculus and physical chemistry are not general requirements for admission to the Program, they may be required for certain disciplines since physical chemistry is a prerequisite to advanced course work in certain areas of concentration. Applicants must also submit Graduate Record Examination scores (General Aptitude and an Advanced Test in one of the sciences) along with three letters of recommendation from references familiar with the applicant's relevant academic/professional performance.

### MASTER OF SCIENCE DEGREE

To qualify for the Master of Science degree in Biomedical Sciences, a minimum of thirty-six credit hours are required for a non-thesis degree, a minimum of thirty-two credit hours are required for a thesis degree. No more than six hours of thesis may be credited toward the thirty-two hour requirement. Each student must specialize and be accepted into one of the following disciplines: Anatomy, Biochemistry, Microbiology, Physiology or Pharmacology. In addition, each student, with approval of his/her advisory committee must successfully complete at least one basic course of four credit hours or greater in a minimum of three basic biomedical science disciplines. All students are also required to take Cellular and Molecular Biology (BMS 600), Statistics (PSY 517 or EDF 517), Introduction to Research (BMS 685), and Seminar (BMS 680). The remaining courses necessary to meet the credit hour requirement will be chosen from graduate course offerings with the concurrence of the student's advisory committee.

### DOCTOR OF PHILOSOPHY DEGREE

For full admission to the Doctor of Philosophy Degree Program, students must have completed at least thirty-two hours of the course work towards the requirements for the Marshall University Master of Science degree in Biomedical Science or the equivalent. This includes courses in cellular and molecular biology, introduction to research, seminar and statistics, and one basic course of four credit hours or greater in each of three different basic biomedical science disciplines. Additional course work may be required by the student's doctoral committee. Doctoral students will also be expected to participate in seminar while in residence and complete a research project which will result in a dissertation. All students in the Doctoral Degree Program, regardless of receipt of financial assistance, must participate in the teaching and research as an integral part of their advanced training.

Admission to candidacy for the Doctor of Philosophy Degree is accomplished by successfully passing a candidacy examination which will consist of both written and oral portions administered by the student's doctoral committee. To receive the doctoral degree, candidates must complete and successfully defend a dissertation.

The Doctor of Philosophy Degree Program will normally require two to three years of full-time graduate work beyond Master of Science equivalency. This must include the equivalent of at least two semesters of residence in graduate study at Marshall University.