

4-16-2004

SR-03-04-43 CC

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### Recommended Citation

Marshall University, "SR-03-04-43 CC" (2004). *Recommendations*. 511.  
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## CURRICULUM COMMITTEE RECOMMENDATION

### SR-03-04-43 CC

Recommends approval of the listed **MAJORS, CERTIFICATE PROGRAMS, AREAS OF EMPHASIS—ADDITIONS/CHANGES** from the **COLLEGE OF SCIENCE**:

A new major: Biomedical Sciences

Description: The major in Biomedical Sciences provides preparation for careers in a wide range of health sciences. Students are required to complete the previously stated core classes which must include: BSC 302-Principles of Microbiology, BSC 322-Principles of Cell Biology, BSC 324-Principles of Genetics. In addition the following three courses are required: BSC 301-Vertebrate Embryology, BSC 365-Introductory Biochemistry, BSC 422-Systems Physiology. The remaining nine (minimum) elective credit hours are to be chosen from the following courses: BSC 304, BSC 300, BSC 310, BSC 413, BSC 417, BSC 426, BSC 423, BSC 424, BSC 468, BSC 450, BSC 442, BSC 456, BSC 480-483.

Rationale: Many of the current Biology majors are preparing for graduate careers in a variety of specialties including medicine, dentistry, veterinary and pharmacy. By designating a Biomedical Science Major these students will benefit by having a predetermined core of classes necessary for application to these professional schools. It will also help students by scheduling the required and recommended classes for this new major prior to sitting for the standardized entrance exams. As with all Majors within Biological Sciences the design of courses associated with the Biomedical Sciences Major is for increased student successes following their undergraduate years at Marshall University.

Changes in requirements of an existing major: Biology (SB10)

Description: The biology major is designed for students who do not wish to specialize in their undergraduate degree but will be prepared for a broad spectrum of positions within the biological sciences. Students must meet all of the stated course requirements. They are required to complete all four of the BSC core classes, BSC 302, BSC 320, BSC 322, and BSC 324. The remaining 15 (minimum) elective hours are to be selected from each of the specialized tracks. Students must have at least one of the required courses from three of the four majors. BSC 413 and BSC 417 are recommended as choices for elective credits.

Core Courses: BSC 120, 121; BSC 302, 320, 322, 324 (minimum of three); BSC 491 (Capstone); CHM 211, 212, 217, 218, 355, 356, 361; PHY 201, 202, 203, 204; MTH 132 or 229 or two of the following MTH 122, 130 (or 127) 140, 225.

Changes in requirement of an existing major: Microbiology (SB40)

Description: We propose the following changes to the current catalog requirements to ensure that students receive a solid education in the discipline of Microbiology.

Changes: Students are required to complete three of the core classes which must include—BSC 302 and 324; additional required classes for this major are—BSC 304, 434, 365, 436; the remaining minimum of nine elective credits are to be chosen from the following—BSC 424, 438, 418, 448, 440, 445, 446, 442, 417, 444, 480-483.

Changes in title and requirements of an existing major: **FROM:** Physiology/Molecular Biology (SB50)  
**TO:** Cellular/Molecular Biology.

Description: We propose the following changes to the current catalog requirements to ensure that students receive a solid education in this discipline.

Changes: The major in Cellular/Molecular Biology provides preparation for careers in biotechnology, cell biology, and/or medical research. In addition to stated core classes, students are required to take the following three courses—BSC 365, 450, 452; an additional minimum of nine credit hours of electives are to be chosen from the following courses—BSC 366, 417, 420, 448, 454, 456, 444, 480-483.

Rationale: Over time the Biological Sciences at Marshall University has seen a change in the represented disciplines amongst the faculty. There has also been a gradual change within courses relative to their curriculum. The renaming of the Physiology/Cellular Major to Cellular/Molecular Major reflects these changes and is a more accurate appellation of this major. In addition, the changes in requirements, previously associated with Physiology/Molecular Major, are more appropriate for today's science discipline. Physiological classes are not being lost from the department, but rather are now within the new Biomedical Sciences Major.

Deletion of a major: Botany (SB20)

Rationale: The Biology Curriculum Committee proposes the deletion of the Botany major and combining it with the Environmental Biology major. It has become increasingly difficult for students to obtain the necessary courses that define the discipline within a reasonable time frame. The remaining Botany classes will strengthen the Environmental Biology major (SB30) and will become an area of emphasis.

Deletion of a major: Zoology (SB60)

Rationale: The Biology Curriculum Committee proposes the deletion of the Zoology major and combining it with the Environmental Biology major. It has become increasingly difficult for students to obtain the necessary courses that define the discipline within a reasonable time frame. The remaining Zoology classes will strengthen the Environmental Biology major (SB30) and will become an area of emphasis.

**FACULTY SENATE PRESIDENT:**

APPROVED  
BY SENATE: Larry Stibler DATE: 4/16/2009

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

**UNIVERSITY PRESIDENT:**

APPROVED: [Signature] DATE: 4/22/09

DISAPPROVED: \_\_\_\_\_ DATE: \_\_\_\_\_

**COMMENTS:** \_\_\_\_\_

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