Code # SM06 (2014)

**Bulletin Change Transmittal Form**

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**1.Contact Person** (Name, Email Address, Phone Number)

David Gilmore, [dgilmore@astate.edu](mailto:dgilmore@astate.edu), 972-3263

**2.Proposed Change**

Addition of a prerequisite to BIO 3223 Human Structure and Function I, namely BIO 2103 Biology of the Cell.

Change in frequency for both BIO 3223 and BIO 3233 Human Structure and Function II, and their labs.

**3.Effective Date**

Fall 2015

**4.Justification**

Modern physiology ranges from the integration of organ systems down to activities at the sub-cellular level. Therefore, to be successful in this sequence of courses (Human Structure and Function I and II) students need a working understanding of biology at the cellular and subcellular level. Biology of the Cell is the course that provides that background. The prerequisites do not have any redundancy, as the current prerequisites are Biology of Animals (with no prereqs) and General Chemistry II (which like Biology of the Cell requires General Chemistry I).

HS&F I and II, because they are sequential, were originally taught once a year (HS&F I in Fall, HS&F II in Spring). Because these courses are major requirements, additional offerings are now available with both classes be taught in Fall, Spring, and Summer. The Bulletin needs to be changed to reflect this.

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**BIO 3221. Human Structure and Function I Laboratory** Two hours per week. Special course fees may apply. Special course fees may apply. It is recommended this course be taken concur­rently with BIO 3223. Fall, Spring, and Summer.

**BIO 3223. Human Structure and Function I** This course covers the structure and function of the human organism. Topics covered include, cellular function, skeletal, muscular and nervous systems. Special course fees may apply. Prerequisite, BIO 1301, BIO 1303, BIO 2013, CHEM 1023 and 1021. Fall, Spring, and Summer.

**BIO 3231. Human Structure and Function II Laboratory** Two hours per week. Special course fees may apply. It is recommended this course be taken concurrently with BIO 3233. Fall, Spring, and Summer.

**BIO 3233. Human Structure and Function II** This course covers the structure and function of the human organism. Topics covered include special senses and endocrine, respiratory, car­diovascular, digestive, urinary, reproductive and integumentary systems. Special course fees may apply. Prerequisites, BIO 3223 and BIO 3221. Fall, Spring, and Summer.

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