Code # SM07 (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 prerequisites for BIO 4133 Cell Biology, namely BIO 2013 Biology of the Cell and BIO 2011, Biology of the Cell Laboratory.

**3.Effective Date**

Fall 2015

**4.Justification**

BIO 4133 is an advanced Cell Biology class. Students without a basic grounding in cell biology (as obtained in BIO 2103) are not likely to be successful in the course. Therefore, BIO 2103 and its lab are logical prerequisites.

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**BIO 4131. Cell Biology Lab** Two hours per week. To be taken concurrently with BIO 4133. Special course fees may apply. Spring.

**BIO 4133. Cell Biology** Organization and activities of cells, with emphasis on the ultrastructure and function of cellular organelles. Lecture three hours per week. Special course fees may apply. Prerequisites, BIO 2101, BIO 2103, CHEM 1023 and CHEM 1021. Spring.

**BIO 4143. Pharmacology** The study of drugs and their mechanisms of action at the system, cellular, and molecular levels. Special course fees may apply. Prerequisites, BIO 2203 and BIO 2223, or BIO 3223 and BIO 3233, BIO 4104, and CHEM 4243. Spring, even.

**BIO 4152. Laboratory in BioTechniqes I** Laboratory techniques in protein chemistry and analytical techniques. Techniques also include a variety of chromatographic methods, electropho­resis, UV-vis spectroscopy and radiochemistry. Laboratory 4 hours per week. Special course fees may apply. Prerequisite, BIO 3013. Spring.

Pg 546