APC Document 34:  Addition of Computer Competency Requirement for Biology; Changes in Descriptions of BIOL 444 and 455

Effective Date: Fall 2005

1. Delete: On pg. 71, second sentence under III.
   
   Both the departmental and oral competencies are satisfied by completion of BIOL 480 or 498, or EDUC 396 and 496, with a grade of C or higher.

   Add: On pg. 71, in place of deleted entry:
   
   Major, oral, and computer competencies are satisfied by completion of BIOL 480 or 498, or EDUC 396 and 496, with a grade of C or higher.

   Impact: Computer competencies are currently satisfied by successful completion of the courses specified. No impact on resources is anticipated as a result of these changes.

   Rationale: Method of demonstration of satisfaction of computer competency for biology majors should be stated in the catalog description of the major requirements.

2. Delete: On pg. 74, current description for BIOL 444:
   
   Structure and function.....CHEM 111, 144, 234.  Fall.

   Add: On pg. 74, in place of deleted entry:
   
   Structure and function of biomolecules; important biological processes from the viewpoint of chemical biology. Topics include isolation and characterization of biomolecules, enzyme kinetics, regulation of biochemical pathways and bioenergetics, and informational molecules. Provides a strong background for students interested in cell and molecular biology and for those seeking advanced or professional degrees. Prerequisites: BIOL 116; CHEM 111, 144, 234.  Spring.

   Impact: Changes in the course description reflect the reality of the course as it is currently taught. Therefore no impact on resources is anticipated as a result of these changes.

   Rationale: Course description was changed to better describe course content as it has evolved. BIOL 210 was dropped as a prerequisite since it is no longer necessary given Biology’s recent curricular changes. Permission of instructor was added since it already is in effect for students with appropriate credentials. Spring offering reflects current practice.

3. Delete: On pg. 75, current description for BIOL 455
   
   Basic physiological principles....CHEM 111, 144.  Fall.

   Add: On pg. 75, in place of deleted entry:
   
   Central themes of physiology are presented including homeostasis, adaptation, acclimation and the relationship of structure to function as well as integrated systems of control. While vertebrate physiology is emphasized, models are also taken from invertebrate phyla. An experimental approach is used in lecture and laboratory to investigate physiological processes. Provides a strong background for students interested in animal biology and for those seeking advanced or professional degrees. Prerequisites: BIOL 116, 210; CHEM 111, 144.  Fall.
**Impact:** Changes in the course description reflect the reality of the course as it is currently taught. Therefore no impact on resources is anticipated as a result of these changes.

**Rationale:** Course description was changed to better describe course content as it has evolved. Permission of instructor was added since it already is in effect for students with appropriate credentials.