UNIVERSITY OF MARY WASHINGTON – EXPEDITED COURSE CHANGE PROPOSAL

Submit this form electronically, beginning with the first required level of review (department or college level). Each level of review passes the form and any attachments to the next level when the action is approved.

Submitted by: Dianne Baker	**Date Prepared: 9/30/2019**
Department/Discipline(s) and Course Number(s): BIOL 302a, 312, 331,334, 342, 385, 391	
Course Title: Developmental Biology; Plant Physiology; Histology; Exercise Physiology; Nutrition and Metabolism; Human Physiology; Immunology	

Type of change (*check all applicable*):
Number* _X__ Title_____ Description_X__ Prerequisites _X_ Deletion_____ Cross list**____

**This course number must be approved by the Office of the Registrar before the proposal is submitted. With this course proposal, attach a list of ALL COURSES that will be affected by the number change (for example, cases where the course number that is changing is a prerequisite for another course).*

***To cross list courses between departments/colleges, there should be two cover sheets submitted with the proposal – one by the chair of each department with signatures from the relevant College Curriculum Committee Chair.*

Effective Date: FALL Semester, Year ____2020_____

Current Catalog Entry	**Proposed Catalog Entry** (suggested length – less than 50 words)
BIOL 302a - Developmental Biology (4) Prerequisite: BIOL 260, 340 and 341 (C- or better in each course). An examination of the cellular and genetic mechanisms which control the formation of multicellular organisms during reproduction. Laboratory emphasizes scientific investigation and development of research skills in Developmental Biology. Laboratory.	***BIOL 439 - Developmental Biology (4)*** Prerequisites: BIOL 260, 340 and 341 (C- or better in each course). An examination of the cellular and genetic mechanisms which control the formation of multicellular organisms during reproduction. Laboratory emphasizes inquiry based scientific investigation and development of research skills in Developmental Biology. Fulfills the Research Intensive requirement of the biology major.

Current Catalog Entry	Proposed Catalog Entry (suggested length – less than 50 words)
BIOL 312- Plant Physiology (4) Prerequisite: BIOL 340 and 341 (C- or better in each course). Experimental and theoretical treatment of the functional mechanisms in plants. Laboratory.	***BIOL 435- Plant Physiology (4)*** Prerequisites: BIOL 340 and 341 (C- or better in each course). Experimental and theoretical treatment of the functional mechanisms in plants. Laboratory.

Current Catalog Entry	**Proposed Catalog Entry** (suggested length – less than 50 words)
BIOL 331- Histology (4) Prerequisite: BIOL 340 (C- or better). The anatomy and physiology of vertebrate tissues, with an emphasis on human tissues. Laboratory.	***BIOL 406- Histology (4)*** Prerequisite: BIOL 340 (C- or better). The anatomy and physiology of vertebrate tissues, with an emphasis on human tissues. Laboratory.

Current Catalog Entry	**Proposed Catalog Entry** (suggested length – less than 50 words)
BIOL 334- Exercise Physiology (3) Prerequisite: BIOL 340 (C- or better). A study of the physiological responses of the metabolic, cardiovascular, respiratory, muscular, and skeletal systems to acute and chronic exercise in the human.	***BIOL 414 – Exercise Physiology (3)*** Prerequisite: BIOL 340 (C- or better). A study of the physiological responses of the metabolic, cardiovascular, respiratory, and muscular systems to acute and chronic exercise in the human, and the roles of the nervous and endocrine systems in mediating these responses.

Current Catalog Entry	**Proposed Catalog Entry** (suggested length – less than 50 words)
BIOL 342- Nutrition and Metabolism (3) Prerequisite: BIOL 340 (C- or better). A study of the scientific basis for the current recommendations for a healthy diet. Course topics include metabolic pathways, macro and micro nutrients, diet and health, and controversial topics in nutrition.	**BIOL 415- Nutrition and Metabolism (3)** Prerequisite: BIOL 340 (C- or better). A study of the scientific basis for the current recommendations for a healthy diet. Course topics include metabolic pathways, macro and micro nutrients, diet and health, and controversial topics in nutrition.

Current Catalog Entry	**Proposed Catalog Entry** (suggested length – less than 50 words)
BIOL 385- Human Physiology (4) Prerequisite: BIOL 340 (C- or better). A systematic study of the physiology of the nervous system, circulation, respiration, digestion, kidney function, muscle function, integument system, homeostasis, hormonal control, and reproduction in the human body. Laboratory.	***BIOL 413- Human Physiology (4)*** Prerequisite: BIOL 340 (C- or better). A systematic study of the physiology of the human body, with focus on the nervous and endocrine systems, muscle function, cardiovascular and pulmonary systems, kidney function, digestion, and reproduction. Laboratory.

Current Catalog Entry	**Proposed Catalog Entry** (suggested length – less than 50 words)
BIOL 391- Immunology Prerequisite: BIOL 341 (C- or better). Introduction to the principles and theories of host defense with emphasis on humoral and cell mediated responses. Laboratory.	***BIOL 441- Immunology (4)*** Prerequisites: BIOL 340 and 341 (C- or better). Introduction to the principles and theories of host defense with emphasis on humoral and cell mediated responses. Laboratory.

JUSTIFICATION *(including impact on majors, minors, concentrations, and general education courses within the University curriculum; attach additional pages if required).* **Any change that impacts another Department must have a written statement (such as a copy of an email) from the Chair(s) agreeing to the change.**

We are requesting that the above course be re-numbered to streamline our catalog and curriculum. Several years ago, the course that is a common prerequisite to all of the above (Cell Biology) was change from BIOL 2xx to BIOL340. This led to confusion among students that several of the courses listed above should/ could be taken before BIOL340, necessitating renumbering. Additionally, as all of the courses listed above are more advanced in content and expectations, we seek to move all courses with a BIOL 340 prerequisite to the 400 level. The selected numbers have been cleared for use by the Registrar's Office. We are also requesting minor changes to the course descriptions to 302 (439), 334 (414), and 385 (413) to align with current course structure and material. Finally, we request the addition of BIOL 340 as a prerequisite to 391 (441); this was inadvertently omitted in previous catalogs after BIOL 341 no longer required BIOL 340. Only one of these changes will affect any major or minor: the change of BIOL 302 to 439 will affect the list of courses designated Research Intensive in the Biology Major. Therefore, a "Change to the Major" proposal is being submitted simultaneously.

TRANSITION PLAN (*describe how will students who are in Catalogs where the course is required for a major be accommodated; attach additional pages if required)*

Students will need to be made aware of changes in the numbering system, but we expect that the new numbers will reduce some confusion among our current future students. As these numbers are deemed eligible for use by the Registrar's office, it should be a fairly simple transition.

Approvals

Department Chair_____ **Date:** 9/30/19

College Curriculum Chair_____ **Date:** 10/7/19

Expedited course changes are posted for a 10-class day comment period. If no comments are raised, the proposal becomes final. All expedited proposals approved in this way will be noted on the UCC web site. If comments are raised, the proposal may be reviewed by the UCC and then approved or it may be returned to the CCC for additional deliberation (as required).