Submitted by: Andrew Dolby  
Date Prepared: August 29, 2012

Department/Discipline and Course Number: BIOL 312

Course Title: Plant Physiology

Type of change (check all applicable):
- Course Number
- Title
- Credits
- Description
- X Prerequisites
- Deletion
*This course number must be approved by the Office of the Registrar before the proposal is submitted.

Effective Date: FALL Semester, Year 2013

<table>
<thead>
<tr>
<th>Current Catalog Entry</th>
<th>Proposed Catalog Entry</th>
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<tbody>
<tr>
<td>312 – Plant Physiology (4) Prerequisites: Biology 340. Experimental and theoretical treatment of the functional mechanisms in plants. Laboratory.</td>
<td>• 312 – Plant Physiology (4) Prerequisites: Biology 340 and 341. Experimental and theoretical treatment of the functional mechanisms in plants. Laboratory.</td>
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JUSTIFICATION (including impact on majors, minors, concentrations, and general education courses within the University curriculum; attach additional pages if required)

During the last twenty years, a revolution has been occurring in the biological sciences owing to the increasing availability of sophisticated molecular genetics tools. Developments in the field of molecular genetics have been rapidly accelerating, and new techniques are now answering questions which were previously inaccessible to plant physiologists. Information stemming from these lines of research is being incorporated into new editions of textbooks. Consequently, today’s students need more thorough background in molecular genetics, as presented in BIOL 341, to thoroughly understand the research responsible for current understanding of plant physiology concepts.

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)

BIOL 341 is also a prerequisite for eight other upper-level biology courses, and students routinely take both BIOL 340 and 341 during their second year. Furthermore, BIOL 312 is an elective in the biology major. Therefore, we do not anticipate that the addition of this prerequisite to BIOL 312 would hinder students’ ability to complete the biology major program within four years.

Approvals

Department Chair  Andrew Dolby
Date: Aug. 29, 2012

College Curriculum Chair  Bradley Hansen
Date: Sep. 19, 2012

Expedited course changes are posted for a 10-class day comment period. If no comments are raised
during that time, 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).