

# Approval Chart for Curriculum Changes

A = Approval      I = Information\*

Course Number BIOL 101, 112, 113, 291, 292\_\_\_\_\_or Degree Plan(s) \_\_\_\_\_  
State the requested change and reason. A memo may be attached if more space is necessary.

Biology courses to be considered under the "natural science" menu for the undergraduate general education requirements.

Circle the number that corresponds to the requested change. Degree plan changes are on the second page.

| Change to a Course |                                                                                                       | COUNCIL**    |                  |       |      |      |      |         |         |           |
|--------------------|-------------------------------------------------------------------------------------------------------|--------------|------------------|-------|------|------|------|---------|---------|-----------|
|                    |                                                                                                       | Dept./School | College Academic | Deans | UGEC | UUAC | GRAD | Provost | Faculty | President |
| 1.                 | Title (description unchanged)                                                                         | A            | A                | A     | I    |      |      | I       | --      | I         |
| 2.                 | Description (not affecting content)                                                                   | A            | A                | A     | I    |      |      | I       | --      | I         |
| 3.                 | Content (substantive change)                                                                          | A            | A                | A     | I    |      |      | A       | --      | A         |
| 4.                 | Number of hours (lecture, lab, contact)                                                               | A            | A                | A     | A    |      |      | A       | --      | A         |
| 5.                 | Course number within the hundred                                                                      | A            | A                | I     | I    |      |      | I       | --      | I         |
| 6.                 | Course number beyond the hundred                                                                      | A            | A                | A     | A    |      |      | A       | --      | A         |
| 7.                 | Prerequisites                                                                                         | A            | A                | A     | I    |      |      | I       | --      | I         |
| 8.                 | Course fee(s)                                                                                         | A            | --               | A     | --   |      |      | A       | --      | I         |
| 9.                 | From U to G <i>or</i> G to U                                                                          | A            | A                | A     | A    |      |      | A       | --      | A         |
| 10.                | Cross list with another dept: U or G level                                                            | A            | A                | A     | A    |      |      | A       | --      | A         |
| 11.                | Department of record                                                                                  | A            | A                | A     | A    |      |      | A       | --      | A         |
| 12.                | Open or close a course                                                                                | A            | A                | A     | A    |      |      | A       | --      | A         |
| 13.                | New course — See Adams Center for packet.<br>This change includes combining or splitting a course(s). | A            | A                | A     | A    |      |      | A       | --      | A         |

\* Councils may request additional information about "Information" items. These items are approved as "Consent Agenda."

\*\* In most cases, approval by only one council is necessary.

Note: When an academic unit does not have a council, the UGEC and/or UUAC will serve as its academic council, depending on the nature of the issue.

## Approval Chart for Curriculum Changes

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|           | Change to a Degree Plan                                                                                   | Dept./School | College Academic | Deans | COUNCIL |      |      | Provost | Faculty | President | Board of Trustees |
|-----------|-----------------------------------------------------------------------------------------------------------|--------------|------------------|-------|---------|------|------|---------|---------|-----------|-------------------|
|           |                                                                                                           |              |                  |       | UGEC    | UUAC | GRAD |         |         |           |                   |
| 1.        | University Requirements — Require or change a specific course from a menu within a degree plan            | A            | A                | I     |         | I    |      | I       | --      | I         | --                |
| 2.        | University Requirements — Substitute an existing course for a university requirement within a degree plan | A            | A                | A     |         | A    |      | A       | --      | A         | --                |
| <u>3.</u> | University Requirements — Add a course to or drop a course from the University Requirements               | A            | A                | A     |         | A    |      | A       | A       | A         | --                |
| 4.        | University Requirements — Change in approved course content                                               | A            | A                | A     |         | A    |      | A       | --      | A         | --                |
| 5.        | Major — Revision of major ♦ ‡                                                                             | A            | A                | A     |         | A    |      | A       | --      | A         |                   |
| 6.        | Major — Adopt or change admission requirements                                                            | A            | A                | A     |         | A    |      | A       | --      | A         | --                |
| 7.        | Major — Add or discontinue                                                                                | A            | A                | A     |         | A    |      | A       | A       | A         | I                 |
| 8.        | GPA — Revise major or cumulative requirement                                                              | A            | A                | A     |         | A    |      | A       | A       | A         | --                |
| 9.        | Minor — Revise course selection                                                                           | A            | A                | A     |         | I    |      | I       | --      | I         | --                |
|           | Minor — Add or discontinue                                                                                | A            | A                | A     |         | A    |      | A       | --      | A         | --                |
| 10.       | Degree — Add or discontinue                                                                               | A            | A                | A     |         | A    |      | A       | A       | A         | I                 |
| 11.       | Any change to a graduate degree program*                                                                  | A            | A                | A     |         | A    |      | A       | --      | A         | --                |

♦ A minimum of 30 hours is required for a major. A maximum is specified for each degree (e.g., BA, BS). The university minimum for elective hours is 6, unless the requirements of external accrediting bodies make it impossible.

‡ Program or course changes applying only to a Teacher Education degree will be reviewed by the Teacher Education Council and then forwarded to the UUAC.

\* All graduate degree plan changes must go through the Graduate Council.

Revised 11-2-11

## Approval Chart for Academic Information Changes

|    | Change to the Catalog                                                                                            | Dept./School | College Academic | Deans | UGEC | UUAC | GRAD | Provost | Faculty | President | Board of Trustees |
|----|------------------------------------------------------------------------------------------------------------------|--------------|------------------|-------|------|------|------|---------|---------|-----------|-------------------|
|    |                                                                                                                  |              |                  |       |      |      |      |         |         |           |                   |
| 1. | General requirements for graduation including course requirements that are common to all majors for all degrees* | --           | --               | --    |      | A    |      | A       | A       | A         | --                |
| 2. | Admission requirements                                                                                           | --           | --               | --    |      | A    |      | A       | A       | A         | --                |
| 3. | Policies governing academic probation and suspension                                                             | --           | --               | --    |      | A    |      | A       | A       | A         | --                |
| 4. | Requirements for graduating with honors                                                                          | --           | --               | --    |      | A    |      | A       | A       | A         | --                |
| 5. | Other academic policy changes                                                                                    | --           | --               | --    |      | A    |      | A       | --      | A         |                   |

\* The UUAC approved the clarification that "general requirements for graduation" means the seventeen items in the "General Requirements for Bachelor's Degrees" section of the catalog.

Revised 3-2-11

# Curriculum/Catalog Changes Signature Page

| Department/School Chair(s) |                          |
|----------------------------|--------------------------|
| <u>James R. Nichols</u>    | <u>February 24, 2012</u> |
| <i>Signature</i>           | <i>Approval date</i>     |
| _____                      | _____                    |
| <i>Signature</i>           | <i>Approval date</i>     |

| College Academic Council(s) |                      |
|-----------------------------|----------------------|
| _____                       | _____                |
| <i>Signature</i>            | <i>Approval date</i> |
| _____                       | _____                |
| <i>Signature</i>            | <i>Approval date</i> |

| Dean(s)          |                      |
|------------------|----------------------|
| _____            | _____                |
| <i>Signature</i> | <i>Approval date</i> |
| _____            | _____                |
| <i>Signature</i> | <i>Approval date</i> |

| Teacher Education Council |                      |
|---------------------------|----------------------|
| _____                     | _____                |
| <i>Chair's signature</i>  | <i>Approval date</i> |

| General Education Council |                      |
|---------------------------|----------------------|
| _____                     | _____                |
| <i>Chair's signature</i>  | <i>Approval date</i> |

| Undergraduate Academic Council |                      |
|--------------------------------|----------------------|
| _____                          | _____                |
| <i>Chair's signature</i>       | <i>Approval date</i> |

| Graduate Council         |                      |
|--------------------------|----------------------|
| _____                    | _____                |
| <i>Chair's signature</i> | <i>Approval date</i> |

| Provost          |                      |
|------------------|----------------------|
| _____            | _____                |
| <i>Signature</i> | <i>Approval date</i> |

| Faculty                        |                      |
|--------------------------------|----------------------|
| _____                          | _____                |
| <i>Chair of faculty senate</i> | <i>Approval date</i> |

| President        |                      |
|------------------|----------------------|
| _____            | _____                |
| <i>Signature</i> | <i>Approval date</i> |

## BIOL 101 Student Learning Outcomes

1. Students will understand the basic philosophical approaches to science; that is, what science can deal with well and its limitations.
2. Students will identify major anatomy and physiology aspects of the human body and major problems encountered in human medicine.
3. Students will understand and appreciate the interactions between plants, animals, and microorganisms in the environment. This will include nutrient cycles, energy flow, and basic ecologic concepts.
4. Students will understand the basic mechanism points of evolutionary theory and be exposed to some Christian responses to the concept.
5. Students will understand the cellular basis of life including cell anatomy, cell physiology, genetics, and inheritance.

## **BIOL 112 Student Learning Outcomes**

1. Students will demonstrate knowledge and understanding of the structural and functional differences distinguishing the major groups of organisms including viruses, bacteria, protists, plants, fungi, and animals.
2. Students will demonstrate knowledge and understanding of the structure and life processes in plants, including major tissue systems, life cycles, and growth and development. This includes a consideration of plant anatomy and physiology.
3. Students will demonstrate knowledge and understanding of the structure and life processes in animals including tissues, organs, organ-systems, reproduction, and development. This includes a consideration of animal anatomy and physiology.
4. Students will demonstrate competency in understanding the basic structure of the tree of life representing hypotheses of common ancestry.

## **BIOL 113 Student Learning Outcomes**

1. Students will be able to distinguish between living organisms and nonliving things by describing the features that characterize living organisms.
2. Students will be able to summarize the basic principles of heredity and define the importance of DNA as the carrier of genetic information. This will involve understanding the importance of information transfer within living systems.
3. Students will be able to explain the importance of gene expression and regulation in terms of development, disease, and daily life.
4. Students will understand the basics of ecology including the roles of producers, consumers, and decomposers and their interdependence.
5. Students will be knowledgeable regarding metabolism and homeostasis and their relationship.
6. Students will understand the hierarchy of biological organization including individual and ecological levels.
7. Students will be knowledgeable regarding the basics of evolutionary theory as the principal unifying concept in biology.

## **BIOL 291 Student Learning Outcomes**

1. Students will be able to define anatomy and physiology and the major anatomical terms relating to the human body.
2. Students will understand the hierarchical organization of the human body from the cellular to organ system level.
3. Students will understand the structure and function of the integumentary system.
4. Students will understand the interdependence of the skeletal, muscle, and nervous systems including their structure and function.
5. Students will understand the interactions of the above systems and how they relate to homeostasis.

## **BIOL 292 Student Learning Outcomes**

1. Students will be able to discuss knowledgeably the anatomy and physiology of the following systems: circulatory, respiratory, digestive, and genito-urinary.
2. Students will understand how the autonomic nervous system and endocrine systems regulate maintenance systems to achieve homeostasis.
3. Students will understand how nutrients and wastes are distributed, utilized, and eliminated from the body to maintain homeostasis.
4. Students will understand the body's defense mechanisms when homeostasis is disrupted.