## change of COURSE PROPOSAL FORM

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| --- | --- |
| Academic area: | **School of Pure and Applied Sciences** |
| PROGRAM: | ASSOCIATE IN ARTS |
| PROPOSEd by: | DR. MARCELA TREVINO |
| PRESENTER: | DR. DANIEL MCDEVIT |
| SUBMISSION DATE: | 1/15/2014 |
| CURRENT COURSE PREFIX, NUMBER AND TITLE: | **BSC 1010 BIOLOGICAL SCIENCE I** |

### SECTION I

|  |  |
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| **TYPE(S) OF COURSE CHANGE:** | **TYPE PROPOSED CHANGE HERE FOR EACH ITEM CHECKED:** |
|  | lecture/lab course must have “c” / lab course must have “l” |
|  | type new COURSE TITLE HERE |
|  | ENTER NEW SCHOOL, DIVISION, OR DEPARTMENT |
|  | LIST ALL PREREQUISITES IN SEQUENTIAL ORDER and include the minimum grade for each |
| **DO YOU ANTICIPATE THAT STUDENTS WILL BE TAKING ANY OF THE PREREQUISITES LISTED FOR THIS COURSE IN DIFFERENT PARTS OF THE SAME TERM?** | NO |
|  | LIST ALL COREQUISITES IN SEQUENTIAL ORDER |
| **IS ANY COREQUISITE LISTED ON THIS COURSE LISTED AS A COREQUISITE ON ITS PAIRED COURSE?**  eXAMPLE: CHM 2032 IS A COREQUISITE FOR CHM 2032L AND CHM 2032L IS A COREQUISITE FOR CHM 2032. | SELECT ANSWER |
|  | Click here to ENTER THE NUMBER of CREDITS OR cLOCK HOURS |
|  | SELECT A CREDIT TYPE |
|  | Click here to enter CONTACT HOURS |
|  | SELECT GRADE MODE |
|  | |
| Type your course description as you would like it to appear in the catalog and syllabus. | |
|  | |
| * Characteristics of living organisms * Basic atomic structure * Chemical bonding and biomolecules * Properties of water * Prokaryotic and eukaryotic cells * Thermodynamics * Enzyme structure and function * Membrane structure and function * Cell communication * Photosynthesis * Cellular respiration and fermentation * DNA structure and protein synthesis * Regulation of gene expression * DNA replication and the cell cycle * Meiosis * Patterns of inheritance | |

**** YES

If yes, list below (for information purposes only). TYPE IN ALL OF THE LEARNING OUTCOMES, ASSESSMENTS, AND GENeral EDucation COMPETENCIES AS THEY SHOULD BE DISPLAYED IN THE SYLLABUS

|  |  |  |
| --- | --- | --- |
| **LEARNING OUTCOMES** | **ASSESSMENTS** | **GENERAL EDUCATION COMPETENCIES** |
| Describe the characteristics of living organisms. | Successfully complete one or more of the following: exams; quizzes; writing assignments; debates; case studies; oral, written, or electronic presentations; discussion forums; collaborative problem solving exercises; or data interpretation and analysis exercises. | COM, GSR |
| Describe basic atomic structure and its role in the formation of chemical bonds. |  |
| Relate chemical bonds to the structure of the major biomolecules. |  |
| Explain how the special properties of water make life possible. |  |
| Compare and contrast the structure and function of prokaryotic and eukaryotic cell components. |  |
| Explain the role of energy transfer in biological processes. |  |
| Describe the function of enzymes and enzyme inhibitors in biochemical reactions. |  |
| Relate the structure of biological membranes to their functions. |  |
| Identify mechanisms involved in cell communication and response to stimuli. |  |
| Explain how photosynthetic organisms convert light energy to chemical energy. |  |
| Explain how cells convert chemical energy in fuel molecules into useable energy. |  |
| Explain how cells store and use genetic information. |  |
| Explain how prokaryotes and eukaryotes regulate gene expression. |  |
| Explain the cellular life cycle including DNA replication, cell division and control mechanisms. |  |
| Summarize how genetic information is passed from one generation to the next during reproduction. |  |
| Interpret the laws governing inheritance. | QR, CT |

### SECTION II (must complete each item below)

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| If you intend to restrict student registration based on the students’ major(s), enter all applicable major restriction codes: | Click here to enter text |
| Is this an “International or Diversity Focus” course? | NO |
| Is this a General Education course? | YES |
| Is this a Writing Intensive course? | NO |
| Is this an Honors Course? | NO |
| Is this a Repeatable Course?\*  (A repeatable course may be taken more than one time for additional credits. For example, MUT 2641, a 3-credit hour course, can be repeated 1 time and a student can earn a maximum of 6 credits.)  \*not the same as Multiple Attempts or Grade Forgiveness  If “Yes”, what is the maximum number of credits a student can earn for this course? If “No”, enter NA. | NO  TYPE NUMBER HERE |
| Will these changes have an impact on other courses, programs, departments, or budgets? | NO |
| If “Yes”, please explain or submit comments below, if no enter NA | |
| CLICK HERE TO ENTER TEXT | |
| If “Yes”, have you discussed this proposal with anyone (from other departments, programs, or other institutions) regarding the impact? Were any agreements made? | |
| CLICK HERE TO ENTER TEXT | |

### SECTION III (MUST COMPLETE EACH ITEM BELOW)

**PROVIDE JUSTIFICATION FOR EACH CHANGE ON THIS PROPOSED CURRICULUM ACTION (OTHER EXPLANATORY INFORMATION):**

This update to the topic outline and learning outcomes is proposed to better define the course content in order to (a) provide a better course guideline for instructors and students; (b) help promote a more consistent level district-wide; and (c) support the creation of more valuable common assessment materials.

**nOTE:** Changes for the Fall 2014 Term must be submitted by the January 2014 deadline and approved no later than the February 2014 Curriculum Committee meeting prior to the start of the next academic year. Changes during mid-school year are NOT permitted. Extreme circumstances will require approval from the appropriate dean as well as the Vice President, Academic Affairs to begin in either the spring or summer term.

**TERM IN WHICH PROPOSED ACTION WILL TAKE PLACE:**

FALL 2014

TYPE IN TERM IF “EXCEPTION” AND OBTAIN BOTH SIGNATURES BELOW OR TYPE “NA”

**oRDER OF APPROVAL FOR EXCEPTIONS IS AS FOLLOWS:**

SIGNATURE #1 NEEDED FOR EFFECTIVE TERM EXCEPTION:

dean \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

SIGNATURE #2 NEEDED FOR EFFECTIVE TERM EXCEPTION:

VICE PRESIDENT, ACADEMIC AFFAIRS \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ dATE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**FACULTY ENDORSEMENTS:**PLEASE SEPARATE FACULTY MEMBERS WITH A COMMA



**DEPARTMENT CHAIR / PROGRAM COORDINATOR ENDORSEMENT:**

 1/23/2014

**DEAN ENDORSEMENT:**

 02/05/2014

**DEANS’ COUNCIL Representative:**

 March 17, 2014

**FOR CURRICULUM COMMITTEE MEETING DATE:** March 28, 2014

Completed curriculum proposals must be uploaded to Dropbox by the deadline. Please refer to the *Curriculum Committee Critical Dates for Submission of Proposals* document available in the document manager in the MyEdisonState Portal:

* Document Manager
* VP Academic Affairs
* Curriculum Process Documents