

# CLARION UNIVERSITY OF PENNSYLVANIA

Degree: **B.S. Biology**

## College of Arts, Education and Sciences

Ecology and Evolutionary Biology Conc.

NAME \_\_\_\_\_  
 SS# \_\_\_\_\_  
 ENTRANCE DATE \_\_\_\_\_  
 PROGRAM ENTRY DATE \_\_\_\_\_  
 ADVISOR \_\_\_\_\_

TRANSFER: \* \_\_\_\_\_  
 \*\* \_\_\_\_\_  
 CUP: \_\_\_\_\_  
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### GENERAL EDUCATION REQUIREMENTS – 48 CREDITS

Please refer to the approved list of Gen. Ed. courses that appears in the newspaper schedule.

#### I. LIBERAL EDUCATION SKILLS – 12 CREDITS CR. GR.

- A. English Composition (3-6 credits)  
ENG 110: Writing I \_\_\_\_\_  
ENG 111: Writing II \_\_\_\_\_
- B. Mathematics Competency (3 credits)\*  
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- C. Credits to total 12 in Category I, selected from at least two of the following: Academic Enrichment, MMAJ 140 or 340, Computer Information Science, CSD 465, Elementary Foreign Language, English Composition, Hon 128, Logic, Mathematics, & CMST  
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#### II. LIBERAL KNOWLEDGE – 27 CREDITS

- A. **Physical and Biological Sciences** – (9 credits) selected from at least two of the following: Biology, Chemistry, Earth Science, ENVR 275, GS 411, HON 230, Mathematics\*, Physical Science, & Physics  
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- B. **Social & Behavioral Sciences** – (9 credits) selected from at least two of the following: Anthropology, CSD 125, CSD 257, Economics, Geography, GS 140, History, HON 240, NURS 320, Political Science, Psychology, Sociology, Social Work, & Women and Gender Studies  
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- C. **Arts & Humanities** – (9 credits) selected from at least two of the following: Art, English Language and Literature, HON 130, Humanities, Intermediate Foreign Language and Cultures, Music, Philosophy, Speech Communication, & Theater  
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#### III. HEALTH AND PERSONAL PERFORMANCE – 3 CREDITS

- A. Health and Wellness  
HPE 111 : Health Education \_\_\_\_\_ 2 \_\_\_\_\_
- B. Personal Performance  
 \_\_\_\_\_ 1 \_\_\_\_\_

#### IV. GEN. ED. ELECTIVES – CR. TO TOTAL 48 GEN. ED. excluding credits from Biology and no more than 1 credit from area III.B.

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\* All students are required to take MATH 260 or 270 and MATH 221 or 222 or BIOL 402. MATH courses can be counted under General Education. <sup>1</sup>

**No changes since Fall 2014**

#### V. REQUIREMENTS IN MAJOR – 47-59 CREDITS

- |  | <u>CR.</u> | <u>GR.</u> |
|--|------------|------------|
| 1. Required in Biology – 23-24 credits                             |            |            |
| BIOL 155: Principles of Biology I                                  | 3          |            |
| BIOL 165: Principles of Biology I Lab                              | 1          |            |
| BIOL 156: Principles of Biology II                                 | 3          |            |
| BIOL 166: Principles of Biology II Lab                             | 1          |            |
| BIOL 201: Genetics   | 3          |            |
| BIOL 202: Principles of Ecology                                    | 3          |            |
| BIOL 203: Cell Biology   | 3          |            |
| BIOL 382: Evolution  | 3          |            |
| BIOL 493: Comm. & Ecosystem Dynamics <u>or</u>                     | 4          |            |
| BIOL 494: Population Biology                                       | 3          |            |
| 2. Electives in Biology <sup>2</sup> – 12-14 credits               |            |            |
| BIOL _____:  | 3          |            |
| BIOL _____:  | 3          |            |
| BIOL _____:  | 3-4        |            |
| BIOL _____:  | 3-4        |            |
| 3. Required Supplemental Courses <sup>3</sup> – 15-24 credits      |            |            |
| CHEM 153: General Chemistry I <sup>4</sup>                         | 3          |            |
| CHEM 163: General Chemistry I Lab <sup>4</sup>                     | 1          |            |
| CHEM 154: General Chemistry II <sup>4</sup>                        | 3          |            |
| CHEM 164: General Chemistry II Lab <sup>4</sup>                    | 1          |            |
| CHEM 251: Organic Chemistry I                                      | 3          |            |
| CHEM 261: Organic Chemistry I Lab                                  | 1          |            |
| CHEM 252: Organic Chemistry II                                     | 3          |            |
| CHEM 262: Organic Chemistry II Lab                                 | 1          |            |
| PH 251: General Physics I  | 4          |            |
| PH 252: General Physics II   | 4          |            |
| 4. Other Required Courses in the Sciences <sup>6</sup> – 6 credits |            |            |
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#### VI. Free Electives

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#### FLAGS

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First Year Values (V)  
 Second Values (S)  
 Writing Intensive (W)  
 Writing Intensive (W)  
 Quantitative Reasoning (Q)  
 Information Literacy (I)

## University Requirements Relating to Academic Requirements

- A student is obligated by those requirements, which are in effect at the time of his/her matriculation, but if he/she changes majors he/she is obligated by the requirements in effect at the time of the change. If a student has been out of school for more than two years and is readmitted, he/she is treated as a new student for requirement purposes.
- A minimum of 120 credits must be presented for graduation, of which at least 45 of the last 64 credits must have been earned in residence.
- No more than 2 credits of Personal Performance (III.B.) may be counted for graduation.
- Upon presentation of form DD 214, the university grants a maximum of 4 credits in Health and Physical Education for active military service of 4 months or more. Credit is normally given for HPE 111 (2 credits) and 2 HPE activity courses of 1 credit each.
- Maximum loads: students with a QPA of 3.0, 21 hours; students in good standing\*, 18 hours; students on probation, 15 hours.  
\*To be in good academic standing, undergraduate students must maintain a quality point average of 2.00 for both semester and cumulative averages.
- After a student has earned a minimum of 30 semester hours of credit and if he/she is good academic standing, he/she may schedule a maximum of six courses or 18 credit hours for Credit-No Record. Once such course may be taken each semester. Courses in the student's major may not be taken on a Credit-No Record basis.
- Course credits not to exceed 18 semester hours may be earned by departmental examination at Clarion. Application should be made in the Office of the Registrar.
- All candidates for an undergraduate degree must be in good academic standing (i.e., have a cumulative QPA of 2.00).

•Students may take a double major by satisfying the major requirements of two programs within a single degree. For example, one may take a B.A. with majors in English and Speech Communication. Ordinarily a double major (two majors within one degree) can be effected in 120 hours. Students who have earned their first baccalaureate degree from Clarion University may earn a second baccalaureate degree from a different university or different degree (B.S., B.A., or B.F.A.) within the same college. This can be accomplished by completing all of the requirements of both degrees. In this case, the student will receive two diplomas.

Students also may pursue two baccalaureate degrees concurrently by completing all of the requirements of both degrees.

Students who have earned their first baccalaureate degree from another institution are responsible for satisfying Clarion University's residence requirements.

## NOTES

- 1 All students are required to take MATH 260 or 270. This course will fulfill the Mathematics Competency requirement for General Education. MATH 221 or 222 will fulfill the Quantitative Reasoning flag for General Education, but it can also be applied in category IC or IIA.
- 2 Four courses from the following (12-14 credits) BIOL 305, 341, 360, 402, 405, 424, 425, 427, 428, 432, 451, 452, 456, 460, 470, 471, 473, 478, 491, 492, 493, 494, 497, 499
- 3 As many as 9 credits from this list may be entered under Liberal Knowledge category II.A. If entered there, the credits are not counted as supplemental courses in the major.
- 4 In some instances, students may be advised to substitute CHEM 151, 161, 152, and 162 for CHEM 153, 163, 154, and 164.
- 5 CHEM 205 and 211 may not be used to meet this requirement.
- 6 Complete two courses (9 credits) from the following list: ES 150, 210, 225, 255, 260, 270, 280, 330, 345, 360, 385, 400, 404, 425, 455, 460, 470, 481, 490, BCHEM 453, 454 CHEM 265, 351, 353, 354, 359 MATH 271, 272, 321, 322, 350, 370, PH 254, 261, 410, any 300-400 level BIOL elective approved for Biology major credit.