

Name _____
Clarion ID _____
Entrance Date _____
Program Entry Date _____
Advisor _____

Transfer:* _____
** _____
CUP: _____

GENERAL EDUCATION REQUIREMENTS - 48 CREDITS

I. LIBERAL EDUCATION SKILLS - 12 CREDITS CR. GR.

- A. English Composition (3 credits)
Eng 111: Writing II _____
- B. Mathematics Requirement (3 credits)

- C. Credits to total 12 in Category I, selected from at least two of the following: COM 140 or 340, Computer Information Science, CSD 465, Elementary Foreign Language, English Composition, HON 128, INQ 100, Logic, and Mathematics

II. LIBERAL KNOWLEDGE - 27 CREDITS

- A. **Physical & Biological Science** (9 credits) selected from at least two of the following: Biology, Chemistry, Earth Sci., ENVR275, GS411, HON230, Mathematics, Phys. Sci. & Physics.

- B. **Social & Behavioral Science** (9 credits) selected from at least two of the following: Anthropology, CSD 257, Economics, Geography, GS 140, History, HON 240, NURS 320, Pol. Sci., Psychology, Social Work, Sociology, and Women & Gender Studies

- C. **Arts & Humanities** (9 credits) selected from at least two of the following: ART, COM, English Language and Literature, HON 130/131, Intermediate Foreign Language and Cultures, INQ 100, Music, Philosophy, Speech and Theater

III. HEALTH AND PERSONAL PERFORMANCE - 3 CREDITS

- A. **Health and Wellness (2 credits)**

- B. **Personal Performance (1 course and 1 credit)**

IV. GEN. ED. ELECTIVES - CREDITS TO TOTAL 48 FROM GEN. ED. excluding credits from Biology and no more than 1 credit from area III.B.

* 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. ¹

V. REQUIREMENTS IN MAJOR – 58-61 CREDITS

	<u>CR.</u>	<u>GR.</u>
1. Required in Biology – 39-42 credits		
BIOL 155: Principles of Biology I	<u>3</u>	_____
BIOL 156: Principles of Biology II	<u>3</u>	_____
BIOL 165: Principles of Biology I Lab	<u>1</u>	_____
BIOL 166: Principles of Biology II Lab	<u>1</u>	_____
BIOL 201: Genetics	<u>3</u>	_____
BIOL 202: Principles of Ecology	<u>3</u>	_____
BIOL 203: Cell Biology	<u>3</u>	_____
BIOL 341: General Microbiology	<u>4</u>	_____
BIOL 450: Cell Physiology	<u>4</u>	_____
BIOL 483: Molecular Biology	<u>4</u>	_____
BIOL 485: Biotechnology	<u>4</u>	_____
BIOL ² _____:	<u>3-4</u>	_____
BIOL ² _____:	<u>3-4</u>	_____
BIOL ² _____:	<u>3-4</u>	_____
2. Required Supplemental Courses ³ – 19 credits		
CHEM 153: General Chemistry I ⁴	<u>3</u>	_____
CHEM 163: General Chemistry I Lab ⁴	<u>1</u>	_____
CHEM 154: General Chemistry II ⁴	<u>3</u>	_____
CHEM 164: General Chemistry II Lab ⁴	<u>1</u>	_____
CHEM 251: Organic Chemistry I	<u>3</u>	_____
CHEM 261: Organic Chemistry I Lab	<u>1</u>	_____
CHEM 252: Organic Chemistry II	<u>3</u>	_____
CHEM 262: Organic Chemistry II Lab	<u>1</u>	_____
BCHM 453: Biochem. I or BCHM 454 Biochem. II	<u>3</u>	_____
BCHM 463: Biochemistry Lab	<u>1</u>	_____
PH 251: General Physics I ⁶	<u>4</u>	_____
PH 252: General Physics II ⁶	<u>4</u>	_____

VI. Free Electives

FLAGS – Record Below

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

University Policies 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 30 of the last 60 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 DD 214, the university grants a maximum of 4 credits in Health and Physical Education for active military service of 6 months or more. Credit is normally given for NFSS 111 (2 credits) and 2 activity hours of 1 credit each.
- Maximum loads: Students with a GPA of 3.0, 21 hours; students in good standing*, 18 hours; students on probation, 15 hours.
 - * To be in good standing, undergraduate students must maintain a minimum cumulative grade point average of 2.0.
- After a student has earned a minimum of 30 semester hours of credit and if he/she is in good academic standing, he/she may schedule a maximum of six courses of 18 credit hours for Credit-No Record. One 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.
- All candidates for an undergraduate degree must be in good academic standing (i.e., have a cumulative GPA of 2.0).
- A second major may be pursued (a) after the completion of a baccalaureate degree and (b) in the same degree area as the first major. It does not lead to a second degree awarded unless the student completes an additional 30 credits. If the student completes an additional 30 credits, a second degree is awarded. Students must successfully complete all requirements for the second major.
- Students may simultaneously earn two degrees from Clarion University from a different college of the university or different degree (B.S., B.A., or B.F.A.) within the same college by completing all coursework for those degrees. In this case, the student will receive two diplomas. Students who have earned their first baccalaureate degree from another institution are responsible for satisfying Clarion University's residence requirement.

Post-Baccalaureate Students Returning for a Second Undergraduate Degree:

- Students need to complete an additional 30 credits (regardless of number of earned credits of the first degree) and complete degree requirements in effect at the time of matriculation for second undergraduate degree.
- Students may obtain teacher certification in conjunction with many degrees by completing the required course work in professional education. For more information, contact the Dean of the College of Arts, Education and Sciences, or the Director of Education. With careful course selection, ordinarily no more than 120 credits will be required.

Academic Policy information can be found on the Registrar's web page at the following link:

<http://www.clarion.edu/academics/registrars-office/academic-policies/index.html>

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 under category IC or IIA.
2. Complete 3 courses in: BIOL 251, 300-499; BCHM 453, 454.
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. In some instances, students may be advised to substitute PH 258, 259, 268, and 269 for PH 251, 252.

Degree: B.S. Molecular Biology and Biotechnology