

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.
 _____: _____
 _____: _____

FLAGS – Record Below

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

Free Electives
 _____: _____
 _____: _____
 _____: _____
 _____: _____

V. REQUIREMENTS IN MAJOR: 54-60 CREDITS CR. GR.
 1. **Required in Core Courses {all concentrations}** (23 credits)
 ES 150: Physical Geology w/Lab 4 _____
 ES 260: Environmental Geology 4 _____
 ES 385: Climatology 3 _____
 ES/GEOG 400: Intro. Remote Sensing w/Lab 3 _____
 ES/GEOG470: Intro to Geog. Info. Sys. w/Lab 4 _____
 ES 455: Field Methods in Geoscience 5 _____

GIS CONCENTRATION (19 credits)
 ES/GEOG 210: Fund. Digital Mapping 3 _____
 ES/GEOG 425: Adv. Remote Sensing w/Lab 3 _____
 ES/GEOG 460: Geospatial Data 3 _____
 ES/GEOG 481: Spatial Analysis Mod 4 _____
 ES/GEOG 490: Adv. Geog. Info. Sys. w/Lab 3 _____
 CIS 202: Intro to Program/Algorithms 3 _____
 _____: _____
 _____: _____
 _____: _____

GEOSCIENCE CONCENTRATION (16 credits)
 ES 255: Geomorphology w/Lab 4 _____
 ES 330: Hydrogeology w/Lab 4 _____
 CHEM 153: Gen Chemistry I 3 _____
 CHEM 163: Gen Chemistry I (Lab) 1 _____
 CHEM 154: Gen Chemistry II 3 _____
 CHEM 164: Gen Chemistry II (Lab) 1 _____
¹ES _____: _____
¹ES _____: _____
¹BIOL _____: _____
¹MATH _____: _____

MINERAL RESOURCES EXPLORATION CONCENTRATION (24 cr)
 ES 350: Structural Geology w/Lab 4 _____
 ES 360: Mineralogy w/Lab 4 _____
 ES 370: Petrology w/Lab 4 _____
 ES 390: Strat. & Sed. Petrology w/Lab 4 _____
 CHEM 153: Gen Chemistry I 3 _____
 CHEM 163: Gen Chemistry I (Lab) 1 _____
 CHEM 154: Gen Chemistry II 3 _____
 CHEM 164: Gen Chemistry II (Lab) 1 _____
¹MATH _____: _____

ATMOSPHERIC/OCEANIC SCIENCE CONCENTRATION (21-22 cr.)
 ES 140: Natural Disasters 3 _____
 ES 270: Oceanography 3 _____
 ES 280: Meteorology 3 _____
 PH 251: Gen. Physics I 4 _____
 PH 252: Gen. Physics II 4 _____
¹MATH _____: _____

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:

- (GIS CONCENTRATION)**
Students must select ONE course from the following: CIS 301 (CIS 202 pre-requisite) or ES/GEOG 345
AND select SIX credits from the following: BIOL 202, CIS 206, CIS 270, CIS 306, CIS 330, CIS 370, CIS 402, MATH 225
 - (GEOSCIENCE CONCENTRATION)**
Students must choose up to EIGHT credits from the following Earth Science Electives: ES 350, ES 390, ES 360, ES 370
AND a Biology elective BIOL 324 (3-4 credits) – fills Gen. Ed. Requirement
 - (MINERAL RESOURCES EXPLORATION CONCENTRATION)**
Students must choose MATH 260 or MATH 270 – fills Gen. Ed. Requirement
 - (ATMOSPHERIC/OCEANIC SCIENCE CONCENTRATION)**
Students must choose MATH 221 or MATH 260 – fills Gen. Ed. Requirement
- 2 A total of 9 credits may be used in Phy/Biol Sci. MATH 221 may be used in I.C.

B.S. Environmental Geoscience