

Name \_\_\_\_\_  
 Clarion ID \_\_\_\_\_  
 Entrance Date \_\_\_\_\_  
 Program Entry Date \_\_\_\_\_  
 Advisor \_\_\_\_\_

Transfer:\* \_\_\_\_\_  
 \*\* \_\_\_\_\_  
 CUP: \_\_\_\_\_  
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**GENERAL EDUCATION REQUIREMENTS - 48 CREDITS**

I. **LIBERAL EDUCATION SKILLS - 12 CREDITS** CR. GR.  
 A. English Composition (3 credits)  
 Eng 111: Writing I \_\_\_\_\_  
 B. Mathematics Requirement (3 credits)  
 \_\_\_\_\_  
 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 & Biological Science** (9 credits) selected from at least two of the following: Biology, Chemistry, Earth Sci., ENVR275, GS411, HON230, Mathematics, Phys. Sci. & Physics.  
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 B. **Social & Behavioral Science** (9 credits) selected from at least two of the following: Anthropology, CSD125, CSD 257, Economics, Geography, GS 140, History, HON240, NURS320, Pol. Sci., Psychology, Social Work, Sociology & Women & Gender Studies.  
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 C. **Arts & Humanities** (9 credits) selected from at least two of the following: English Language and Literature, HON 130, Humanities, Intermediate Foreign Language and Cultures, Music, Philosophy, Speech and Theater.  
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III. **HEALTH AND PERSONAL PERFORMANCE - 3 CREDITS**  
 A. Health and Wellness (2 credits)  
 \_\_\_\_\_ 2 \_\_\_\_\_  
 B. Personal Performance (1 course and 1 credit)  
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IV. **GEN. ED. ELECTIVES - CREDITS TO TOTAL 48 FROM GEN. ED.**  
 excluding credits from Environmental Geoscience  
 Up to 1 credit from III.B.  
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FLAGS - Record below:  
 \_\_\_\_\_ First Year Values (V)  
 \_\_\_\_\_ Quantitative Reasoning (Q)  
 \_\_\_\_\_ Second Values (S)  
 \_\_\_\_\_ Writing Intensive (W)  
 \_\_\_\_\_ Writing Intensive (W)

**Free Electives (IN MAJOR)**  
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 \_\_\_\_\_  
 \_\_\_\_\_  
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**No changes since Fall 2014**

V. **REQUIREMENTS IN MAJOR: 54-60 CREDITS** CR. GR.  
 I. **Required in Core Courses (all concentrations)** (23 credits)  
 ES 150: Physical Geology w/Lab 4 \_\_\_\_\_  
 ES 260: Environmental Geology 4 \_\_\_\_\_  
 ES/GEOG 385: Climatology 3 \_\_\_\_\_  
 ES/GEOG 400: Intro. Remote Sensing w/Lab 3 \_\_\_\_\_  
 ES/GEOG470: Intro to Geog. Info. Sys. w/Lab 4 \_\_\_\_\_  
 ES 455/555: 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 \_\_\_\_\_  
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**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 \_\_\_\_\_  
<sup>1</sup>ES \_\_\_\_\_  
<sup>1</sup>ES \_\_\_\_\_  
<sup>1</sup>BIOL \_\_\_\_\_  
<sup>1</sup>MATH \_\_\_\_\_

**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 \_\_\_\_\_  
<sup>1</sup>MATH \_\_\_\_\_

**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 \_\_\_\_\_  
<sup>1</sup>MATH \_\_\_\_\_

## University Policies Relating to Academic Requirements

- English 111 is required for graduation. Students who qualify can take ENG 115 or HON 129 in place of ENG 111. Students required to complete English 110, Writing I, must successfully complete the course before enrolling in English 111, College Writing. Students are selected to take English 110 based on writing assessment scores when entering the university. If required to take English 110, the course will count under section I. C. Liberal Education Skills.
- 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 DD214, the university grants a maximum of 4 credits in Health and Physical Education for active military service of 4 months or more. Credits 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 of probation, 15 hours.  
\* To be in good academic standing, undergraduate students must maintain a quality point average of 2.00 for both the semester and cumulative averages.
- 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 or 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 department 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 with a single degree. For example, one may take a BA with majors in English and Speech Communication. Ordinarily, a double major (two majors with one degree) can be effected in 120 hours. Students who have earned their first baccalaureate degree from Clarion University may earn a second baccalaureate from a different college of the university or different degree (BS, BA or BFA) within the same college. This can be accomplished by completing all the requirements of both degrees. In this case, the student will receive two diplomas.

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

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

### NOTES:

1. **A. (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**
  - B. (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 (3-4 credits) – fills Gen. Ed. Requirement
  - C. (MINERAL RESOURCES EXPLORATION CONCENTRATION)**  
Students must choose **MATH 260 or MATH 270** – fills Gen. Ed. Requirement
  - D. (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.**