# CLARION UNIVERSITY OF PENNSYLVANIA <br> College of Arts and Sciences 

DEGREE: B.S. Mathematics
Other:
Name

GENERAL EDUCATION REQUIREMENTS - 48 CREDITS
I. LIBERAL EDUCATION SKILLS - 15 CREDITS CR. GR.
A. English Composition (3-6 credits) ${ }^{\prime}$

| Eng IIO: Writing I |  |
| :--- | :--- | :--- |
| Eng III: Writing II | - |

(See back of checksheet)
B. Mathematics Requirement (3 credits)
C. Freshman Inquiry Seminar (3 credits)

INQ

D. Credits to total I5 in Category I, selected from at least two of the following: Academic Support, Communication, Computer Information Science, Elementary Foreign Language, English Composition, Logic, and CMST.
$\qquad$ :

II. LIBERAL KNOWLEDGE - 27 CREDITS
A. Physical \& Biological Science (9 credits) ${ }^{2}$
selected from at least two of the following: Biology, Chemistry,
Earth Sci., and Physics.

B. Social \& Behavioral Science (9 credits) selected from at least two of the following: Anthropology, Economics, Geography, History, Pol. Sci., Psychology, Sociology \& Women \& Gender Studies.
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C. Arts \& Humanities (9 credits) selected from at least two of the following: Art, English Language and Literature, Humanities, Intermediate Foreign Language and Cultures, Music, Philosophy, CMST and Theater.

II. HEALTH AND PERSONAL PERFORMANCE - 3 CREDITS
A. Health and Wellness ( 2 credits)
B. Personal Performance (I course and I credit)
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IV. GEN. ED. ELECTIVES - CREDITS TO -TOTAL 48 FROM GEN. ED. excluding credits in Mathematics and areas III.A. Up to 1 credit from III.B allowed.

FLAGS - Record below courses used to meet Gen. Ed. requirements:

| Quantitative Reasoning (Q) |
| :--- |
|  |

Second Values (S) First Year Values (V)
V. REQUIREMENTS IN MAJOR: 56 CREDITS CR. GR
I. Required courses in Mathematics (43-47 credits) ${ }^{3}$

MATH 270: 'Calculus I
4
MATH 27I: Calculus II
$\frac{4}{3}=$
MATH 300: Intro to Adv. Mathematics
MATH 32I: Intermediate Applied Statistics I
MATH 360: Numerical Methods in Mathematics I
MATH 370: Linear Algebra
MATH 390: Junior Seminar in Mathematics
MATH 45I: Modern Algebra I
MATH 47I: Introduction to Real Analysis I
MATH _ : Seminar (Math 490, 49I, 492)
MATH
MATH : *
MATH
MATH
MATH $\qquad$
Selection is limited to courses numbered 300-499 but at most one of MATH 49I and 492 may be used. Also, at least 6 credits must be of MATH 400 level courses.
2. Required Supplemental Courses ( $0-9$ credits) ${ }^{6}$

CPSC 201: Survey of Computational Science
CPSC 301: Adv. Computational Science
PH 258: Intro Physics Lec. I
3 -
$\frac{3}{3}-$
VI. FREE ELECTIVES

Credits to total 120 credits for graduation.


FLAGS - Record below:

| $\ldots$ | Writing Intensive (W) |
| :--- | :--- |
| $\ldots$ | Writing Intensive (W) |
| 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) by 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 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 University of Pennsylvania.
- All candidates for an undergraduate degree must be in good academic standing (i.e., have a cumulative GPA of 2.0).
- Students may earn two degrees (B.A., B.S., BSED, BSBA), simultaneously or in sequence, by completion of 30 approved credits hours beyond those taken for one degree.
- Students may take a double major by satisfying the major requirements of two programs within a single degree. Ordinarily a double major (two majors within one degree) can be effected in 120 hours, but it is not possible to take two majors in different degree programs (e.g., B.S. in Biology and BSED in Biology) unless the 30 hour requirement for a second degree, referred to in the preceding statement, is satisfied.
- 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

I. Minimum of " $C$ " grade in MATH 270, MATH 27I, MATH 272, and ENG III is required.
2. PHSC III and II2 may not be counted towards graduation by students majoring in mathematics. Majors may select CHEM I5I/I53 instead of PHSC III.
3. Calculus courses may be used to fulfill Mathematics Proficiency requirements for General Education. If used for Gen. Ed., check off here but do not count the credits again under Major Requirements.
4. Must complete 6 credit hours in: MATH 400-499, (except MATH 45I, 47I, 490, 49I, 492).
5. Must complete 9 credit hours in: MATH 300-499, (except MATH 300, $32 \mathrm{I}, 360,370,390,45 \mathrm{I}, 47 \mathrm{I}, 490,49 \mathrm{I}, 492$ ).
6. CPSC20I, CPSC30I, and PH 258 can be used to fulfill General Education requirements. If used for Gen. Ed., check off here but do not count the credits again under Major Requirements.

