

CLARION UNIVERSITY OF PENNSYLVANIA
Degree: B.S. in Mathematics Concentration in Financial Mathematics & Actuarial Science

NAME _____
 SID# _____
 CUP ENTRANCE DATE _____
 PROGRAM ENTRY DATE _____
 ADVISOR _____

College of Arts, Education and Sciences
 Other: _____

TRANSFER: * _____
 ** _____

GENERAL EDUCATION REQUIREMENTS - 48 CREDITS
 Please refer to the approved list of Gen. Ed. courses that appears in the published class schedule.

REQUIREMENTS IN MAJOR: (58 credits)

- I. LIBERAL EDUCATION SKILLS - 15 CREDITS CR. GR.
- A. English Composition (3-6 credits)¹
- ENGL 110: Writing I _____ 3 _____
- ENGL 111: Writing II _____ 3 _____
- B. Mathematics Competency (4 credits)¹
- MATH 270: Calculus I _____ 4 _____
- C. Freshman Inquiry Seminar (3 credits)
- INQ _____: _____ 3 _____
- D. Credits to total 12 in Category I, selected from at least two of the following: Academic Support, Communication, Computer Information Science, Elementary Foreign Language, English Composition, Logic, and Speech Communication
- CPSC 201: Survey of Computational Science 3 _____
- ENGL 371: Workplace Writing 3 _____
- II. LIBERAL KNOWLEDGE - 27 CREDITS
- A. **Physical and Biological Sciences** (9 credits) selected from at least two of the following: Biology, Chemistry, Earth Sci., and Physics.
- _____ : _____ _____
- _____ : _____ _____
- _____ : _____ _____
- B. **Social & Behavioral Sciences** (9 credits) selected from at least two of the following: Anthropology, Economics, Geography, History, Pol. Sci., Psychology, and Sociology.
- ECON 211: Prin. of Macro Economics 3 _____
- ECON 212: Prin. of Micro Economics 3 _____
- _____ : _____ _____
- 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, Speech and Theater.
- _____ : _____ _____
- _____ : _____ _____
- _____ : _____ _____
- III. HEALTH AND PERSONAL PERFORMANCE – 3 CREDITS
- A. Health and Wellness (2 credits)
- _____ : _____ 2 _____
- B. Personal Performance (1 course and 1 credit)
- _____ : _____ _____
- 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.
- _____ : _____ _____

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| 1. Required courses in Mathematics (58 credits) | CR. | GR. |
| MATH 221: Elem. Applied Statistics ¹ | 3 | _____ |
| MATH 270: Calculus I ¹ | 0 | _____ |
| MATH 271: Calculus II ¹ | 4 | _____ |
| MATH 272: Calculus III ¹ | 4 | _____ |
| MATH 285: Mathematical Modeling | 3 | _____ |
| MATH 297: Math. Interest Theory | 3 | _____ |
| MATH 300: Intro to Advanced Math. | 3 | _____ |
| MATH 321: Intermediate Applied Statistics | 3 | _____ |
| MATH 350: Ordinary Differential Equations | 3 | _____ |
| MATH 360: Numerical Methods I | 3 | _____ |
| MATH 370: Introduction to Linear Algebra | 3 | _____ |
| MATH 421: Math. Statistics I | 3 | _____ |
| ECON 211: Prin. of Macro. Econ. ² | 0 | _____ |
| ECON 212: Prin. of Micro Econ. ² | 0 | _____ |
| FIN 370: Financial Management | 3 | _____ |
| FIN 373: Fundamentals of Insurance | 3 | _____ |
| FIN 375: Mgmt. of Fin. Institutions | 3 | _____ |
| FIN 376: Investments | 3 | _____ |
| FIN 476: Portfolio Theory and Mgmt. | 3 | _____ |
| MATH 390: Junior Seminar in Mathematics | 1 | _____ |
| MATH 490: Seminar | 1 | _____ |
| ACTG 251: Financial Accounting | 3 | _____ |
| ACTG 252: Managerial Accounting | 3 | _____ |

2. Required Supplemental Courses (0 credits)³
- CPSC 201: Survey of Computational Science 0 _____
- ENGL 371: Workplace Writing 0 _____

VII. FREE ELECTIVES CR. GR.

Credits to total 120 credits for graduation.

_____ : _____ _____

_____ : _____ _____

_____ : _____ _____

_____ : _____ _____

1. Minimum of "C" grade in MATH 270, MATH 271, MATH 272, and ENGL 111 is required. MATH 270 will 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.
2. ECON 211 and ECON 212 will be used to fulfill Social and Behavioral Sciences electives.
3. CPSC 201 and ENGL 371 are used to fulfill General Education requirements. If used for Gen. Ed., check off here but do not count the credits again under Major Requirements.

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

_____ First Year Values (V)

_____ Quantitative Reasoning (Q)

_____ Second Values (S)

FLAGS - Record below courses to meet Major requirements:

_____ Writing Intensive (W)

_____ Writing Intensive (W) in Major

_____ Information Literacy (I) in Major

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 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>