

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

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

GENERAL EDUCATION REQUIREMENTS - 48 CREDITS

Please refer to the approved list of Gen. Ed. courses that appears in the published class schedule.

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.

_____ : _____ _____
 _____ : _____ _____

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

College of Arts and Sciences

Other: _____

TRANSFER: * _____
 ** _____

REQUIREMENTS IN MAJOR: (55 credits)

- | | | |
|---|------------|------------|
| 1. Required courses in Mathematics (55 credits) | <u>CR.</u> | <u>GR.</u> |
| MATH 221: Elem. Applied Statistics ¹ | <u>3</u> | _____ |
| MATH 270: Calculus I ¹ | <u>0</u> | _____ |
| MATH 271: Calculus II ¹ | <u>4</u> | _____ |
| MATH 272: Calculus III ¹ | <u>4</u> | _____ |
| MATH 300: Intro to Advanced Math. | <u>3</u> | _____ |
| MATH 305: Math. Interest Theory | <u>3</u> | _____ |
| MATH 321: Intermediate Applied Statistics | <u>3</u> | _____ |
| MATH 350: Ordinary Differential Equations | <u>3</u> | _____ |
| MATH 360: Numerical Methods I | <u>3</u> | _____ |
| MATH 370: Introduction to Linear Algebra | <u>3</u> | _____ |
| MATH 421: Math. Statistics I | <u>3</u> | _____ |
| ECON 211: Prin. of Macro. Econ. ² | <u>0</u> | _____ |
| ECON 212: Prin. of Micro Econ. ² | <u>0</u> | _____ |
| FIN 370: Financial Management | <u>3</u> | _____ |
| FIN 373: Fundamentals of Insurance | <u>3</u> | _____ |
| FIN 375: Mgmt. of Fin. Institutions | <u>3</u> | _____ |
| FIN 376: Investments | <u>3</u> | _____ |
| MATH 390: Junior Seminar in Mathematics | <u>1</u> | _____ |
| MATH 490: Seminar | <u>1</u> | _____ |
| ACTG 251: Financial Accounting | <u>3</u> | _____ |
| ACTG 252: Managerial Accounting | <u>3</u> | _____ |
| CPSC 301: Advanced Computational Science | <u>3</u> | _____ |

- 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.

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 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 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 HPE 111 (2 credits) and 1 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 on probation, 15 hours.
*To be in good academic standing, undergraduate students must maintain a minimum quality point average of 2.00 for both 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 departmental examination at Clarion. Application should be made in the Office of Academic Affairs.
- All candidates for an undergraduate degree must be in good academic standing (i.e., have a cumulative QPA of 2.00).
- Students may earn two undergraduate degrees (B.A., B.S., BSED), simultaneously or in sequence, by completion of 30 approved credit 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. For example, one may take a B.A. with majors in English and Speech Communication. 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.A. in English and BSED in Communication Arts) 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 Arts and Sciences or the Dean of Education and Human Services.