CLARION UNIVERSITY OF PENNSYLVANIA
COLLEGE OF BUSINESS ADMINISTRATION AND INFORMATION SCIENCES
B.S. INFORMATION SYSTEMS WITH A CONCENTRATION IN CYBERSECURITY
REQUIREMENT SHEET

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

I. LIBERAL EDUCATION SKILLS - 15 CREDITS   CR. GR.
   A. English Composition (3 credits)
      Engl 111: Writing II _____   3 ___
   B. Mathematics Requirement (3 credits)[1]
      Math 131[1]: Applic of Math in Business I   3 ___
   C. Credits to total 15 in Category I, selected from at least two of the following: COM 140 or 340, Computer Information Science, CDS 465, Elementary Foreign Language, English Composition, HON 128, INQ 100, Logic, Mathematics, & Communication
      CIS 110: Intro to Computer Concepts   3 ___
      CIS 303: Local Area Networks   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., ENVR275, GS411, HON230, Mathematics, Phys. Sci. & Physics.
      Math 221[3]: Elementary Applied Stats   3 ___
      Math 232[1]: Calc Business I   3 ___
      _____: _____ ___ ___
   B. **Social & Behavioral Science** (9 credits)   selected from at least two of the following: Anthropology, CSD 125, CSD 257, Economics, Geography, GS 140, History, HON 240, NURS 320, Pol. Sci. Psychology, Social Work, Sociology, & Women & Gender Studies
      ECON 211[1]: Principles of Macroeconomics   3 ___
      ECON 212[1]: Principles of Microeconomics   3 ___
      _____: _____ ___ ___
   C. **Arts & Humanities** (9 credits) selected from at least two of the following: Art, English, HON 130, Humanities, Intermediate Foreign Language and Cultures, INQ 100, Music, Philosophy, Communication, 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 I.S. major. 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)
_____ Writing Intensive (W)
_____ Writing Intensive (W)

V. REQUIREMENTS IN MAJOR: 60 CREDITS
   (**See NOTE 1**)
   A. Required courses in Information Systems (57 crs.)   CR. GR.

Course	Title	CR	GR
ACTG 251:	Financial Accounting	3	___
ACTG 252:	Managerial Accounting	3	___
MGMT 320:	Management Theory & Practice	3	___
MKTG 360:	Principles of Marketing	3	___
FIN 370:	Financial Management	3	___
CIS 202:	Intro. to Program. & Algorithms I	3	___
CIS 206:	Intro. To Java Programming	3	___
CIS 210:	Intro to Cybersecurity	3	___
CIS 217:	Spreadsheets and Office Apps	3	___
CIS 220:	Cybersecurity Concepts	3	___
CIS 301:	Computer Systems Analysis	3	___
CIS 317:	Microcomputer Maintenance	3	___
CIS 323:	Cyber Forensics and Incident Response	3	___
CIS 330:	Information Systems Programming	3	___
CIS 333:	Information System Auditing & Security	3	___
CIS 402:	Database Design and Implementation	3	___
CIS 403:	Data Communications	3	___
CIS 411:	Systems Development Project	3	___
CIS 433	Security Management	3	___

   B. Electives in Major (3 credits)

Course	Title	CR	GR
CIS 208:	Introduction to Robotics Programming	3	___
CIS 253:	Comp. Organiz. & Assembly Lang.	3	___
CIS 270:	Client Side Web Programming	3	___
CIS 305:	Artificial Intelligence in Dec. Making	3	___
CIS 306:	Object-Oriented Programming	3	___
CIS 310:	Natural Language Processing	3	___
CIS 312:	Special Topics in Computing	3	___
CIS 422[2]:	Internship	___	___
CIS 435:	Machine Learning	3	___
CIS/MGMT 470:	Project Management	3	___
DA 412:	Special Topics in Data Analytics	3	___

VI. FREE ELECTIVES
                                                 CR. GR.
   Credits to total 120 credits for graduation.
      _____: _____ ___ ___
      _____: _____ ___ ___
      _____: _____ ___ ___
      _____: _____ ___ ___
      _____: _____ ___ ___
      _____: _____ ___ ___

FLAGS - Record below:

NOTES
1. 1-3 credits of CIS 422 may be applied to Electives 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) by be counted for graduation.

- Upon presentation of for 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).

- 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

No changes since Fall 2021   **B.S. Info Systems conc. Cybersecurity**