# CLARION UNIVERSITY OF PENNSYLVANIA
## COLLEGE OF BUSINESS ADMINISTRATION AND INFORMATION SCIENCES
### B.S. INFORMATION SYSTEMS REQUIREMENT SHEET

---

**GENERAL EDUCATION REQUIREMENTS - 48 CREDITS**

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

1. **LIBERAL EDUCATION SKILLS - 15 CREDITS**

   **A. English Composition (3 credits)**
   - Engl 111: Writing II ________________________ 3 ___

   **B. Mathematics Requirement (3 credits)**
   - Math 131: ________________________ 3 ___

   **C. Freshman Inquiry Seminar (3 credits)**
   - INQ: ____________________ 3 ___

2. **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 ___
   - Math 232: ________________________ 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: Principles of Macroeconomics 3 ___
   - ECON 212: 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, Music, Philosophy, Communication, and Theater.

3. **HEALTH AND PERSONAL PERFORMANCE - 3 CREDITS**

   **A. Health and Wellness (2 credits)**
   - ________________________ 2 ___

   **B. Personal Performance (1 course and 1 credit)**
   - ________________________ 1 ___

4. **GEN. ED. ELECTIVES - CREDITS TO TOTAL 48 FROM GEN. ED. excluding credits in I.S. major. Up to 1 credit from III.B. allowed.**

   - ________________________ 1 ___

   **FLAGS - Record below courses used to meet Gen. Ed. requirements:**
   - First Year Values (V)
   - Quantitative Reasoning (Q)
   - Second Values (S)
   - Writing Intensive (W)

---

**V. REQUIREMENTS IN MAJOR: 57-60 CREDITS**

(See NOTE 1 and 3)

- Required courses in Information Systems (48-51 crs.)
  - **A.** MATH 221: Elementary Applied Statistics 3 ___
    - **OR**
    - ECON 221: Econ-Bus Statistics I 3 ___
    - 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 110: Intro. to Computers Info. Syst. 3 ___
    - CIS 202: Intro. to Program. & Algorithms I 3 ___
    - CIS 206: Intro. To Java Programming 3 ___
    - CIS 217: Applications of Microcomputers 3 ___
    - CIS 301: Computer Systems Analysis 3 ___
    - CIS 303: Local Area Networks 3 ___
    - CIS 317: Microcomputer Maintenance 3 ___
    - CIS 330: Information Systems Programming 3 ___
    - CIS 402: Database Design and Implementation 3 ___
    - CIS 403: Data Communications 3 ___
    - CIS 411: Systems Development Project 3 ___

- **B. Electives in Major (9 credits)**
  - 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 312: Special Topics in Computing 3 ___
  - CIS 333: Information System Auditing & Security 3 ___
  - CIS 370: Server Side Web Programming 3 ___
  - CIS 406: Mobile Application Development 3 ___
  - CIS 420: Intro to Data Warehousing 3 ___
  - CIS 422: Internship 3 ___
  - CIS 462: Simulation and Modeling 3 ___
  - CIS/MGMT 470: Project Management 3 ___
  - DA 412: Special Topics in Data Analytics 3 ___

5. **VI. FREE ELECTIVES**

   Credits to total 120 credits for graduation.

   - ________________________ 3 ___
   - ________________________ 3 ___
   - ________________________ 3 ___
   - ________________________ 3 ___
   - ________________________ 3 ___
   - ________________________ 3 ___
   - ________________________ 3 ___
   - ________________________ 3 ___

   **FLAGS - Record below:**

**NOTES**

1. All students in the Information Systems program are required to take MATH 131, MATH 232, ECON 211, and ECON 212 or their equivalents. These courses may be placed in General Education. If used for General Education, check off under Major Requirements, but do not count the credits again under Major Requirements.

2. 1-3 credits of CIS 422 may be applied to Electives in Major.

3. MATH 221 may be placed in General Education. If used for General Education, check off under Major Requirements, 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 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 2018

B.S. Info Systems