

NAME _____
CLARION ID _____
ENTRANCE DATE _____
PROGRAM ENTRY DATE _____
ADVISOR _____

TRANSFER: * _____
** _____
CUP: _____

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 - 12 CREDITS **CR. GR.**

A. English Composition (3-credits)
Eng 111: Writing II _____ 3 _____

B. Mathematics Competency (3 credits)
_____ : _____ _____

C. Credits to total 12 in Category I, selected from at least two of the following: Academic Enrichment, Communication, Computer Information Science, Elementary Foreign Language, English Composition, Logic, Mathematics, & Speech Communication

PHIL 311: Logic II – Symbolic Logic _____ 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.
_____ : _____ _____
_____ : _____ _____
_____ : _____ _____

B. **Social & Behavioral Science** (9 credits) selected from at least two of the following: Anthropology, Economics, Geography, GS140, History, HON240, NURS320, Pol. Sci. Psychology, Social Work, Sociology, & Women’s Studies
_____ : _____ _____
_____ : _____ _____
_____ : _____ _____

C. **Arts & Humanities** (9 credits) selected from at least two of the following: Art, English Language and Literature, HON130, Humanities, Intermediate Foreign Language and Cultures, Music, Philosophy, Speech and Theater.
_____ : _____ 3 _____
_____ : _____ _____
_____ : _____ _____

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 Computer Science major. Up to one credit of Personal Performance may be placed here.
_____ : _____ _____
_____ : _____ _____
_____ : _____ _____

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: 57 CREDITS

A. Required courses in Math/Computer Sci. (39 crs.) **CR. GR.**
CIS/MATH 140: Ess. Topics in Dis. Math for CS 3 _____
ECON 221: Econ-Bus Statistics I _____

OR

MATH 221: Elementary Applied Statistics 3 _____

CIS 202: Intro. to Program. & Algorithms I 3 _____

CIS 244: Intro. to Program. & Algorithms II 3 _____

CIS 253: Comp. Organiz. & Assembly Lang. 3 _____

CIS 254: Data Structures 3 _____

CIS 306: Object-Oriented Programming 3 _____

CIS 355: Operating Systems I 3 _____

CIS 356: Analysis of Algorithms 3 _____

CIS 375: Software Engineering 3 _____

CIS 411: Systems Development Project 3 _____

CIS 412: Parallel Processing 3 _____

CIS 460: Prog Langs & Computation Theory 3 _____

B. Electives in Major (18 credits)

CIS 270: Client Side Web Programming 3 _____

CIS 301: Computer Systems Analysis 3 _____

CIS 303: Local Area Networks 3 _____

CIS 305: Artificial Intelligence in Dec. Making 3 _____

CIS 312: Special Topics in Computing 3 _____

CIS 330: Information Systems Programming 3 _____

CIS 333: Info. Systems Auditing & Security 3 _____

CIS 370: Server Side Web Programming 3 _____

CIS 377: Computer Graphics 3 _____

CIS 402: Data Base Management Systems 3 _____

CIS 403: Data Communications 3 _____

CIS 406: Mobile Application Development 3 _____

CIS 422²: Internship (1-6) _____

CIS 462: Simulation and Modeling 3 _____

CIS/MGMT 470: Project Management 3 _____

*MATH 271: Calc. w/Analytic Geometry II 4 _____

MATH 272: Calc w/Analytic Geometry III 3 _____

*MATH 300: An Intro to Advanced Mathematics 3 _____

*MATH/CIS 340: Discrete Math. Structures 3 _____

MATH 360: Numerical Methods in Math I 3 _____

*MATH 370: Linear Algebra 3 _____

MGMT 420: Operations Research 3 _____

VI. FREE ELECTIVES

Credits to total 120 credits for graduation. **CR. GR.**

_____ : _____ _____

_____ : _____ _____

_____ : _____ _____

_____ : _____ _____

* Recommended choices for students planning to pursue graduate work in computer science.

NOTES:

- PHIL 311 and either MATH 260 or MATH 270 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.
- 1-6 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 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. One is required under III.B.; a second credit of Personal Performance may be elected under IV. or Free Electives.
- Upon presentation of form DD 214, the university grants a maximum of 4 credits in Health and Physical Education for active military service of 4 months or more. Credit is normally given for HPE 111 (2 credits) and 2 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 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. Students who have earned their first baccalaureate degree from Clarion University may earn a second baccalaureate degree from a different college of the university or different degree (B.S., B.A., or B.F.A.) within the same college. This can be accomplished by completing all of the requirements of both degrees. In this case, the student will receive two diplomas. Students also may pursue two baccalaureate degrees concurrently by completing all of the requirements of both degrees. Students who have earned their first baccalaureate degree from another institution are responsible for satisfying Clarion University's residence requirements.