

I. CORE CURRICULUM 44

Courses totaling 32 semester hours must be completed in addition to the 12 semester hours of courses required for the major that will also meet core curriculum requirements (CHE 1101, 1110, 1102, 1120 & MAT 1110).

Recommended humanities course: PHL 1100, Logic I (3 semester hours)

Recommended social science course: ECO 2030, Principles of Economic Price Theory (3 semester hours)

II. MAJOR REQUIREMENTS (Not including 12 s.h. already counted in I, above).....54-56

2.0 major GPA is required for graduation. Major GPA calculation will include all courses taken in the major department, plus any other courses under II.

A. Chemistry (42 semester hours)

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|----------|-----------|---|
| CHE 1101 | _____ (3) | Introductory Chemistry I (ND) |
| CHE 1110 | _____ (1) | Introductory Chemistry I Lab |
| CHE 1102 | _____ (3) | Introductory Chemistry II (ND) |
| CHE 1120 | _____ (1) | Introductory Chemistry II Lab |
| CHE 2201 | _____ (3) | Organic Chemistry I |
| CHE 2203 | _____ (1) | Organic Chemistry I Lab |
| CHE 2202 | _____ (3) | Organic Chemistry II |
| CHE 2204 | _____ (1) | Organic Chemistry II Lab (W) |
| CHE 2210 | _____ (2) | Quantitative Analysis |
| CHE 2211 | _____ (2) | Quantitative Analysis Lab (W) |
| CHE 3000 | _____ (1) | Introduction to Chemical Research (S) |
| CHE 3301 | _____ (3) | Physical Chemistry I (C) |
| CHE 3303 | _____ (1) | Physical Chemistry I Laboratory (W) |
| CHE 3302 | _____ (3) | Physical Chemistry II (C) |
| CHE 3304 | _____ (1) | Physical Chemistry II Laboratory (W) |
| CHE 3404 | _____ (3) | Inorganic Chemistry |
| CHE 3405 | _____ (1) | Inorganic Chemistry Lab |
| CHE 4000 | _____ (1) | Chemistry Seminar (S) |
| CHE 4400 | _____ (1) | Senior Research (S) OR CHE 4510_____ (1) Chemistry Honors Thesis |
| CHE 3560 | _____ (3) | Instrumental Methods of Analysis |
| CHE 3561 | _____ (1) | Instrumental Methods of Analysis Lab (W) |
| CHE 4580 | _____ (3) | Biochemistry I |

Major Designators

| | | |
|--|-------|-------|
| 2 Writing (W) | _____ | _____ |
| 1 Speaking (S) | _____ | |
| Certified Proficiency in Communication (CPC) | _____ | |
| CPC is met by completion of CHE 2211 (W), CHE 3303 (W), and CHE 3000 (S) with a minimum grade of C- in each course | | |
| <u>Other Designators</u> | | |
| 4 Writing (W) | _____ | _____ |
| 4 Multi Cultural (MC) | _____ | _____ |
| 2 Numerical Data (ND) | _____ | _____ |
| 2 Computer (C) | _____ | _____ |
| 1 Cross Disciplinary (CD) | _____ | |

B. Physics (10 semester hours)

| | | |
|----------|-----------|----------------------------|
| PHY 1150 | _____ (5) | Analytical Physics I (ND) |
| PHY 1151 | _____ (5) | Analytical Physics II (ND) |

C. Mathematics* (8 semester hours)

| | | |
|----------|-----------|---|
| MAT 1110 | _____ (4) | Calculus with Analytic Geometry I (ND) |
| MAT 1120 | _____ (4) | Calculus with Analytic Geometry II (ND) |

*Students taking a college algebra course before MAT 1110 should enroll in MAT 1025, Algebra and Elementary Functions

D. Other Science (6-8 semester hours)

An additional 6-8 semester hours selected from: astronomy, biology, geology, or physics. (Physics courses at the 1000 level, and PHY 3350, are not accepted)

E. A course in computer programming is also recommended

(Suggested courses are CS 1440 (C), Computer Science I or CS 1400 (C), Fortran Programming)

III. MINOR (optional)

IV. ELECTIVES (taken to total 122 hours for the degree)22-24

2 semester hours of free electives must be outside the major discipline.