For the chemistry option, a minimum of 124 credits is required, with at least 24 credits at the 400 level. Within these 124 credits, students also must satisfy the University’s First Year Seminar, Intercultural and International Competence or U.S. Cultures/International Cultures, and Writing Across the Curriculum requirements. Students must have a grade of C or better in all prescribed and additional courses (see Degree Programs Bulletin). Courses required for entrance to major (ETM) are marked with (*).

### REQUIREMENTS FOR THE MAJOR (124 credits)

#### WRITING/SPEAKING – GWS (9 credits)
- ENGL 15 or 30  
- ENGL 202 A, B, C or D (A or C preferred)  
- CAS 100 A, B, or C - Speech

#### ARTS – GA (6 credits)

#### HUMANITIES – GH (6 credits)
- PHIL 132 – Bioethics

NOTE: All freshmen must take a first year seminar; PSU 016 Forensic Science is recommended

#### QUANTIFICATION (11 credits)(6 GQ credits)
- **MATH 140** – Calculus I (GQ)  
- MATH 141 – Calculus II (GQ)  
- STAT 250 – Biostatistics (GQ)

#### PHYSICS (8 credits)
- PHYS 250 (GN) – Introductory Physics I  
- PHYS 251 (GN) – Introductory Physics II  
- **PHYS 211** (GN) – Mechanics  
- PHYS 212 (GN) – Electricity and Magnetism

#### CHEMISTRY (23 credits)
- **CHEM 110/111** – General Chemistry I/Lab (GN)  
- **CHEM 112** - General Chemistry II (GN)  
- CHEM 113 - General Chemistry II Lab (GN)  
- CHEM 210 – Organic Chemistry I  
- CHEM 212 - Organic Chemistry II  
- CHEM 213 - Organic Chemistry Lab  
- CHEM 227 – Analytical Chemistry  
- CHEM 425 – Chromatography & Electrochemistry

#### LIFE SCIENCES (8 credits)
- BIOL 110 – General Biology (GN)  
- BIOL 230W – Biology: Molecules and Cells (GN)  
- **BMB 251** – Molecular and Cell Biology  
- MICRB 201 – Introductory Microbiology  
- MICRB 202 – Intro. Microbiology Lab

#### FORENSIC SCIENCE (26 credits)
- FRNSC 100 – Intro. To Forensic Science  
- *FRNSC 210 – Essential Practices of FRNSC*  
- FRNSC 400 – Courtroom Testimony  
- FRNSC 410 – A Scientific Approach to CSI  
- FRNSC 411 – Crim: Trace & Impression Evid.  
- FRNSC 413 – Crim: Biology  
- FRNSC 415W – Lab in CSI  
- FRNSC 427W – Forensic Chemistry  
- FRNSC 475 – Forensic Science Seminar  
- FRNSC 485W – Coalescence of Forensic Science Concepts

#### ADDITIONAL AND SUPPORTING COURSES (6 credits)
Select at least one 400 level courses – See recommendations from LIST A and B, and see LIST C for courses that cannot be used in this category

### 400-Level Science (9 credits)
- **LIST A**  
- **LIST A**  
- **LIST A**

### CRIMINAL JUSTICE (3 credits)
- CRIM 100 – Intro to the Criminal Justice System  
- CRIM 113 – Intro to the Law

### CREDITS EARNED/DO NOT APPLY TO MAJOR
There may be credits that are earned but do not apply to graduation – List these courses below

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Eberly College of Science

FORENSIC SCIENCE MAJOR (Chemistry)
Degree Requirement Checksheet
Program Year: 2014 (pending Faculty Senate approval)