

**Recommended Academic Plan – Science B.A. (SCNCE at Penn State Erie, The Behrend College)
Effective Date Summer 2000**

Semester 1	Credits	Semester 2	Credits
ENGL 015 Rhetoric and Composition or ENGL 030 Honors Composition (GWS)	3	GA/GH/GS General Education Selection	3
MATH 140 (GQ) <i>Calculus with Analytic Geometry</i>	4	MATH 141 (GQ) <i>Calculus with Analytic Geometry II</i>	4
CHEM 110 (GN) <i>Chemical Principles I</i>	3	CHEM 112 (GN) <i>Chemical Principles II</i>	3
CHEM 111 (GN) <i>Experimental Chemistry I</i>	1	CHEM 113 (GN) <i>Experimental Chemistry II</i>	1
Arts (GA) or Humanities (GH) or Social and Behavioral Science (GS) General Education Selection	3	GA/GH/GS General Education Selection	3
First Year Seminar	1	Health and Physical Activity (GHA)	1.5
Total Credits:	15	Total Credits:	15.5
Semester 3	Credits	Semester 4	Credits
GA/GH/GS General Education Selection	3	GA/GH/GS General Education Selection	3
CAS 100 (GWS) Effective Speech	3	Other Cultures Course	3
PHYS 250 Introductory Physics I or PHYS 211 General Physics: Mechanics	4	Science Supporting Course	3
MATH 230 Calculus and Vector Analysis	4	PHYS 251 Introductory Physics II or PHYS 212 General Physics: Electricity and Magnetism	4
		B.A. Knowledge Domain Course	3
Total Credits:	14	Total Credits:	16
Semester 5	Credits	Semester 6	Credits
GA/GH/GS General Education Selection	3	GA/GH/GS General Education Selection	3
ENGL 202C <i>Effective Writing: Technical</i>	3	Science Supporting Course	3
Foreign Language Level One	4	Foreign Language Level Two	4
PHYS 213 General Physics: Fluids and Thermal Physics AND PHYS 214 General Physics: Wave Motion and Quantum Physics or Elective (if following the PHYS 250/251 track)	4	Science Supporting Course	3
		Biological Science	3
Total Credits:	14	Total Credits:	16
Semester 7	Credits	Semester 8	Credits
Biological Science	3	Science Supporting Course	3
Science Supporting Course	3	Biological Science	3
Foreign Language Level Three	4	Elective	3
GA/GH/GS General Education Selection	3	Elective	3
Health and Physical Activity (GHA)	1.5	Arts (GA) or Humanities (GH)	3
Total Credits:	14.5	Total Credits:	15

- *Italics* indicates courses that satisfy both major and General Education requirements.
- GWS, GHA, GQ, GN, GA, GH, and GS are codes used to identify General Education requirements.
- US, IL, and US;IL are codes used to designate courses that satisfy University United States/International Cultures requirements. Students must complete 3 credits in US and 3 credits in IL. If a student takes a 3 credit course that is both US and IL, to complete the requirement, he/she must take another 3-credit course that is US, IL, or both US and IL. Education abroad courses and other credit-bearing experiences such as internships that meet this requirement, will be designated US, IL or both US and IL.
- Students who have not met the admission requirement of two units of a high school foreign language must complete a college level-one foreign language within their first 60 credits.

Scheduling patterns for courses not taught each semester: Some major requirements will be offered only once a year or every other year depending on demand. Students should meet with their academic adviser to discuss their intended plan.

- Program Notes:**
- All first-year baccalaureate degree candidates are required to complete, during the first academic year, a seminar course.
 - Six credits must be chosen from the GA, GH, GS categories. Three credits must meet the US Culture sub-requirement and three credits must meet the IL Culture sub-requirement.
 - Students must earn at least a grade of C in each 300- and 400-level prescribed, additional, and supporting course.
 - Students must demonstrate language proficiency to the 12th credit level. A student may substitute credits from the program list if they have demonstrated proficiency through the 12th credit level/003 level of a language by coursework, examination or placement action.

- e. For Science Supporting Courses, students must select 12 credits in one of the following categories and three additional credits from any of the following categories: (a) biological sciences, (b) earth and mineral sciences, (c) mathematical sciences, or (d) physical sciences.
- f. At least 6 credits of major requirements must be at the 400 level,
- g. W is the code used to designate courses that satisfy University Writing Across the Curriculum requirements. Students must complete at least 3 credits of Writing Across the Curriculum (W) credits. Note that only one credit of each of the BIOL 220W, BIOL 230W, and BIOL 240W courses can be used to meet the W requirement

Academic Advising Notes: Science Supporting Courses

Biological sciences include B M B, BI SC, BIOL, and MICRB

Earth and mineral sciences include EARTH, EM SC, GEOSC, and METEO

Mathematical sciences include MATH and STAT;

Physical sciences include ASTRO, CHEM and PHYS

B.A. Knowledge Domains

Students are required to take 3 credits from one of the six domains: Arts (GA), Humanities (GH), Social & Behavioral Sciences (GS), Natural Sciences (GN), Quantification (GQ), and Foreign Language *if* the coursework is in a second foreign language or beyond the 12th credit proficiency of the first foreign language.