General Science / Secondary Education
Bachelor of Science (BS.GENSC(SEC))


| Major <br> Requirements | Credits | Major <br> Requirements | Credits | Secondary Education Requirements | Credits |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Take two of the |  | Track Course* | 3-4 | EDUC 202 | 3 |
| following with labs: |  | Track Course* | 3-4 | EDUC 231 | 1 |
| BIOL 113 ${ }^{2}$ |  | Track Course* | 3-4 | EDUC 232 | 1 |
| BIOL 113L |  | Track Course* | 3-4 | EDUC $235{ }^{3}$ | 3 |
| BIOL $210^{\text {PR }}$ | 8 | Track Course* | 3-4 | EDUC $240^{3}$ | 3 |
| BIOL 210 L | credits | Track Course* | 3-4 | EDUC $270^{3}$ | 3 |
| BIOL $213{ }^{\text {PR }}$ |  | Track Course** | 3-4 | EDUC 3023,4 | 3 |
| BIOL 213L |  | Track Course** | 3-4 | EDUC 3053,4 | 3 |
| CHEM 113 ${ }^{2}$ | 3 | (Track Course**) | (3-4) | EDUC 3503,4 | 3 |
| CHEM 113L | 1 |  |  | EDUC 366 ${ }^{\text {, } 4}$ | 3 |
| CHEM 114 ${ }^{\text {PR }}$ | 3 |  |  | EDUC $440^{4}$ | 3 |
| CHEM 114L | 1 |  |  | EDUC 4673, ${ }^{3}$ | 10 |
| PHYS 111 or 113 | 3 |  |  | EDUC 4683,4 | 2 |
| PHYS 111L or 113L | 1 |  |  |  |  |
| PHYS $112^{\text {PR }}$ or $114^{\text {PR }}$ | 3 |  |  |  |  |
| PHYS $112 L^{\text {PR }}$ or $114 L^{\text {PR }}$ | 1 |  |  |  |  |
| MATH 125 \& 128 |  |  |  |  |  |
| OR | 8 |  |  | Other Requirements |  |
| MATH 129 \& 130 |  |  |  | HCE 101 Holy Cross Exp. | 1 |
| Total Minimum M | Credits |  | 60** | Total Sec Ed / Other Credits | 45 |

## Minimum Credits Required for Graduation = 144

*A student majoring in General Science must choose one of the following Tracks (minor concentrations) below:
**Elective courses in Science and/or Math to accumulate a minimum of 60 credits in Science and Math.
NOTE: Some courses required for certain minor programs will have prerequisites that must be fulfilled.

| Biology | Chemistry | Mathematics | Neuroscience | Environmental Science | Physics |
| :---: | :---: | :---: | :---: | :---: | :---: |
| BIOL 370 | CHEM 241 | MATH 126 | PSYC 101 | ENST 201 | PHYS 231 |
| BIOL 490 | CHEM 242 | MATH 129 | NEUR 211 | ENST 202 | PHYS Elective* |
| $3^{\text {rd }}$ Foundational BIOL $(113,210,213+\text { Lab })$ | CHEM 243 | MATH 130 | NEUR 212 | One of the following: | PHYS Elective* |
| BIOL Elective* | CHEM 493 | MATH 237 | NEUR 310 | ENST 490 | PHYS Elective* |
| BIOL Elective* | CHEM 494 | MATH Capstone | NEUR 480 | ENST 491 | MATH 129 |
| BIOL Elective* | CHEM Elective* | Plus one (1) of the | Plus two (2) of the | ENST 499 | MATH 130 |
| *Minimum of Four (4) | *One chemistry | following: | following: | Plus three (3) of the | Plus one (1) of the following: |
| BIOL electives | elective, excluding | MATH 231 | NEUR 342 | following: | MATH 231 |
| approved by the | CHEM 351. | MATH 238 | NEUR 346 | ENST 200 | MATH 237 |
| departmental advisor. |  |  | NEUR 348 | ENST 355 | *Three PHYS elective courses |
|  |  |  | NEUR 349 | ENST 401 (A-L) | numbered 300 or higher with |
|  |  |  | NEUR 390 | ENST 410 | lab if offered |

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## Suggested Sequence

A suggested course sequence of degree requirements is listed below. Refer to the college catalog for course titles, descriptions, and prerequisites. Always consult your Academic Advisor when planning and scheduling your classes.


## NOTES:

${ }^{1}$ Choose one course from each of the Core Requirements listed on the reverse side.
${ }^{2}$ Course may satisfy both a Major and a Core requirement. BIOL 113 and CHEM 113 satisfy the Scientific Endeavor and Science in Context Core requirement. MATH 125 will satisfy the Quantitative Reasoning Core requirement.
${ }^{3}$ Updated Child Abuse \& Criminal Record \& FBI Clearances REQUIRED for EDUC 235, EDUC 240, EDUC 270, EDUC 302, EDUC 305, EDUC 350, EDUC 366, EDUC 440, EDUC 467, and EDUC 468. ${ }^{4}$ PR Course has a prerequisite - check college catalog.
Students considering the Physics track should take PHYS 113, 113L, 114, \& 114L during their freshman year in exchange for the Biology courses.
The standard semester course load is five courses consisting of 15-17 credits. A student may take 18 credits if the science lab puts them over 17 credits (for more information about credit loads, please see the college catalog). Students are encouraged to take some Core courses during the summer months to help "lighten" their course load during a semester. All Secondary Teacher Certification candidates must complete six credits of college level mathematics and six credits of college level English:

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\text { MATH: } 125,128 \quad \text { ENGL: 110. 140-149 }
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The Pennsylvania Department of Education requires secondary teachers to have a degree in the content area for certification. Students seeking secondary certification must meet with his/her specific content area department for content area courses required for the degree. The Education Division is not responsible for content area or Core courses for secondary certification candidates.

