

General Science / Secondary Education

Bachelor of Science (BS.GENSC(SEC))

| Core Requirements | | | Credits | Notes/Instructions |
|-------------------------------------|----------------------------|---|-----------|---|
| College Sem. | Quest for Meaning | CSEM 100 | 3 | †A student may be required to take ENGL 105 and/or MATH 100 based on placement exams administered prior to their first semester at King's College. ENGL 105 and MATH 100 are 3-credit courses and will count as free electives. †† The Intercultural Competence requirement can be satisfied by taking a 100-level language class for 3 credits or participating in an approved Study Abroad experience. SBM = Satisfied By Major requirement listed below. |
| Communication & Creative Expression | Writing | ENGL 110† | 3 | |
| | Oral Communication | COMM 101 | 3 | |
| | Literature | ENGL 140-149 | 3 | |
| | The Arts | ARTS 100-149 | 3 | |
| Citizenship | History | HIST 100-149 | 3 | |
| | Intercultural | FREN/GERM/SPAN 100-level or Study Abroad†† | 3 | |
| | Global Connections | ECON 150-199; GEOG 150-199; HIST 150-199; PS 150-199; SOC 150-199 | 3 | |
| Quantitative & Scientific Reasoning | SBM Quantitative Reasoning | MATH 120+ or higher level | - | |
| | SBM Scientific Endeavor | NSCI 100 | - | |
| | SBM Science in Context | NSCI 171-199 | - | |
| | Human Beh. & Soc. Inst | ECON 111, 112; GEOG 101, 102; PS 101, PSYC 101, SOC 101 | 3 | |
| Wisdom, Faith, & the Good Life | Introduction to Phil. | PHIL 101 | 3 | |
| | Phil. Investigations | PHIL 170-199; MSB 287 | 3 | |
| | Theology & Wisdom | THEO 150-159 | 3 | |
| | Theology & the Good Life | THEO 160-169 | 3 | |
| Total Core Credits | | | 39 | |

| Major Requirements | Credits | Major Requirements | Credits | Secondary Education Requirements | Credits |
|---|-----------|--------------------|-------------------------|----------------------------------|-----------|
| Take two of the following with labs: | | Track Course* | 3 - 4 | EDUC 202 | 3 |
| <i>BIOL 113²</i> | | Track Course* | 3 - 4 | EDUC 231 | 1 |
| <i>BIOL 113L</i> | | Track Course* | 3 - 4 | EDUC 232 | 1 |
| <i>BIOL 210^{PR}</i> | 8 credits | Track Course* | 3 - 4 | EDUC 235 ³ | 3 |
| <i>BIOL 210L</i> | | Track Course* | 3 - 4 | EDUC 240 ³ | 3 |
| <i>BIOL 213^{PR}</i> | | Track Course* | 3 - 4 | EDUC 270 ³ | 3 |
| <i>BIOL 213L</i> | | Track Course** | 3 - 4 | EDUC 299⁴ | 0 |
| CHEM 113 ² | | Track Course** | 3 - 4 | EDUC 302 ^{3,4} | 3 |
| CHEM 113L | | (Track Course**) | (3 - 4) | EDUC 305 ^{3,4} | 3 |
| CHEM 114 ^{PR} | | | EDUC 350 ^{3,4} | 3 | |
| CHEM 114L | | | EDUC 366 ^{3,4} | 3 | |
| PHYS 111 or 113 | | | EDUC 440 ⁴ | 3 | |
| PHYS 111L or 113L | | | EDUC 467 ^{3,4} | 7 | |
| PHYS 112 ^{PR} or 114 ^{PR} | | | EDUC 468 ^{3,4} | 2 | |
| PHYS 112L ^{PR} or 114L ^{PR} | | | | | |
| MATH 125 & 128 | | | | | |
| OR | 8 | | | | |
| MATH 129 & 130 | | | | | |
| Total Minimum Major Credits | | | 60** | Other Requirements | |
| | | | | HCE 101 Holy Cross Exp. | 1 |
| Total Sec Ed / Other Credits | | | | | 42 |

Minimum Credits Required for Graduation = 141

| *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* |
| BIOL Elective* | 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 following: | Plus two (2) of the following: | ENST 499 | MATH 130 |
| *Minimum of Four (4) BIOL electives approved by the departmental advisor. | *One chemistry elective, excluding CHEM 351. | MATH 231 | NEUR 342 | Plus three (3) of the following: | Plus one (1) of the following: |
| | | MATH 238 | NEUR 346 | ENST 200 | MATH 231 |
| | | | NEUR 348 | ENST 355 | MATH 237 |
| | | | NEUR 349 | ENST 401 (A-L) | *Three PHYS elective courses numbered 300 or higher with lab if offered |
| | | | NEUR 390 | ENST 410 | |

General Science / Secondary Education

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.

| Fall 2019 | Credits | Spring 2020 | Credits |
|--|--------------|---|--------------|
| ♦BIOL 113 ² or BIOL 213 | 3 | ♦BIOL 210 ^{PR} Organisms & Their Ecosystems | 3 |
| ♦BIOL 113L or BIOL 213L | 1 | ♦BIOL 210L ^{PR} Organisms & Their Ecosystems Lab | 1 |
| CHEM 113 ² General Chemistry I | 3 | CHEM 114 ^{PR} General Chemistry II | 3 |
| CHEM 113L General Chemistry I Lab | 1 | CHEM 114L ^{PR} General Chemistry II Lab | 1 |
| MATH 128 ² Statistics or 129 ² Calculus I | 4 | MATH 125 ² Calculus I or MATH 130 Calculus II | 4 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| HCE 101 Holy Cross Experience | 1 | | |
| | 16 | | 15 |
| Fall 2020 | Credits | Spring 2021 | Credits |
| Track Course* | 3 - 4 | Track Course* | 3 - 4 |
| Track Course* | 3 - 4 | Track Course* | 3 - 4 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| EDUC 202 Educ. Philos., Ethics, Issues & Trends | 3 | EDUC 240 ³ Sec. Multicult., Linguistic & Inst. Meth. | 3 |
| EDUC 235 ³ Sec. Development, Cognition, & Learn | 3 | EDUC 270 ³ Introduction to Special Education | 3 |
| EDUC 231 Technology Module I | 1 | EDUC 299⁴ | 0 |
| | 15-17 | | 15-17 |
| Admission to Candidacy (Complete and return "Application for Teacher Education Program Candidacy" to Education Administrative Assistant no sooner than the completion of 48 credits and no later than 65 credits) | | | |
| Fall 2021 | Credits | Spring 2022 | Credits |
| ♦PHYS 111 or 113 General Physics I | 3 | ♦PHYS 112 or 114 General Physics II | 3 |
| ♦PHYS 111L or 113L General Physics I Lab | 1 | ♦PHYS 112L or 114L General Physics II Lab | 1 |
| Track Course* | 3 - 4 | Track Course* | 3 - 4 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| EDUC 305 ^{3,4} Assessment I | 3 | Core Course ¹ | 3 |
| EDUC 232 Technology Module II | 1 | | |
| | 16-17 | | 16-17 |
| Fall 2022 | Credits | Spring 2023 | Credits |
| Track Course* | 3 - 4 | Track Course* | 3 - 4 |
| Core Course ¹ | 3 | Track Course* | 3 - 4 |
| Core Course ¹ | 3 | Core Course ¹ | 3 |
| Core Course ¹ | 3 | EDUC 366 ^{3,4} Methods For Teaching Diverse Learners | 3 |
| EDUC 302 ^{3,4} Secondary Science Methods | 3 | EDUC 350 ^{3,4} Secondary Classroom Management | 3 |
| | 15-17 | | 15-17 |
| Fall 2023 | Credits | Students who wish to finish in four (4) years (including Student Teaching) MUST take summer courses. | |
| EDUC 467 ^{3,4} Observation & Student Teach. (Sec.) | 7 | | |
| EDUC 468 ^{3,4} Student Teaching Seminar | 2 | | |
| EDUC 440 ⁴ Inclusive Education | 3 | | |
| Take Praxis II | | | |
| | 12 | | |
| Minimum Credits Required for Graduation = 141 | | | |

NOTES:

¹Choose one course from each of the Core Requirements listed on the reverse side.

²Course 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.

³Updated 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 **EDUC 299** Basic Skills is a pre-requisite for all 300 and 400 level education courses. In order to register for this course, you must take and pass all basic skills tests. **A student will be required to change their major after their sophomore year if EDUC 299 is not passed.**

^{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:

| | | |
|------------------------|----------|----------------|
| Math Courses | MATH 125 | MATH 128 |
| English Courses | ENGL 110 | ENGL 140 - 149 |

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.