**Mathematics / Secondary Education**

**Course Requirements Fall 2011 / Spring 2012**

* **Required courses for a major in Mathematics/Secondary Education.**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **CORE Requirements** | **Credits** |  |  | **Major Requirements** | **Credits** |  | **Major Requirements** | **Credits** |  |  | **Secondary Education** | **Credits** |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | CORE 090 | 1 |  |  | MATH 127 | 3 |  | MATH 2363 | 3 |  |  | EDUC 202 | 3 |
|  | CORE 100 | 3 |  |  | MATH 129 | 4 |  | MATH 3613 | 3 |  |  | EDUC 231 | 1 |
|  | CORE 110 | 3 |  |  | MATH 130 | 4 |  | MATH 3623 | 3 |  |  | EDUC 2352 | 3 |
|  | CORE 115 or 116 | 3 |  |  | MATH 231 | 4 |  | MATH Elective\*\* | 3 |  |  | EDUC 2402 | 3 |
|  | CORE 131 or 133 | 3 |  |  | MATH 235 | 3 |  |  |  |  |  | EDUC 270 | 3 |
|  | CORE 140 or 141 – 146 | 3 |  |  | MATH 250 | 4 |  |  |  |  |  | EDUC 3052 | 3 |
|  | CORE 1501 – 158 | 3 |  |  | MATH 367 | 3 |  |  |  |  |  | EDUC 331 | 1 |
|  | CORE 161 – 164 | 3 |  |  | MATH 425 | 3 |  |  |  |  |  | EDUC 3202 | 3 |
|  | CORE 171 – 179 | 3 |  |  | MATH 490 | 1 |  |  |  |  |  | EDUC 3502,4 | 3 |
|  | CORE 1801 – 188 | 3 |  |  | CS 116 | 3 |  |  |  |  |  | EDUC 3662 | 3 |
|  | CORE 1901 – 198 | 3 |  |  | CS 117or CS 115 | 3 |  |  |  |  |  | EDUC 440 | 3 |
|  | CORE 250 – 259 | 3 |  |  | Science Group\* | 3 |  |  |  |  |  | EDUC 4672 | 7 |
|  | CORE 260 – 269 | 3 |  |  | Science Group\* | 3 |  |  |  |  |  | EDUC 4682 | 2 |
|  | CORE 280 | 3 |  |  |  |  |  |  |  |  |  |  |  |
|  | CORE 281 – 289 | 3 |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | Total Credits for Secondary Education | |  |
|  | Total Credits for CORE | 43 |  |  |  |  | Total Credits for Major | | 53 |  | 38 |

**Total Credits Required for Graduation = 131 – 132**

\*All students majoring in Mathematics must take one of the Science Groups below:

|  |  |  |
| --- | --- | --- |
| **Science Group 1\*** |  | **Science Group 2\*** |
| CHEM 113 | OR | PHYS 111 |
| CHEM 114 |  | PHYS 112 |

\*\*One additional Math Elective numbered 363 or Higher

|  |  |  |  |
| --- | --- | --- | --- |
| **MATH Electives** | | | |
| MATH 361 | MATH 363 | MATH 416 | MATH 420 |
| MATH 362 | MATH 365 | MATH 418 | MATH 491 |

1Students are required to take CORE 150, CORE 180 **OR** CORE 190 to fulfill the Interdisciplinary CORE requirement.

* If a student takes CORE 150, then he/she should choose from 181 – 188 to fulfill the 18x requirement AND from 191 – 198 to fulfill the 19x requirement.
* If a student takes CORE 180, then he/she should choose from 151 – 158 to fulfill the 15x requirement AND from 191 – 198 to fulfill the 19x requirement.
* If a student takes CORE 190, then he/she should choose from 151 – 158 to fulfill the 15x requirement AND from 181 – 188 to fulfill the 18x requirement.

2 Updated Child Abuse & Criminal Record & FBI Clearances **REQUIRED** for EDUC 235, EDUC 240, EDUC 320, EDUC 305, EDUC 350, EDUC 366, EDUC 467 and EDUC 468.

3MATH 236, MATH 361, and MATH 362 are offered alternating years. Students should take the course in the semester it is offered whenever possible.

4PRAXIS I must be passed before taking EDUC 350.

**General Information:**

A student must earn a minimum of 120 credit hours to be awarded the baccalaureate degree. The number of credit hours required for graduation may be higher in certain major programs **or** if the student elects to pursue a second major.

Beyond the requirements of the Core Curriculum and of a student’s chosen major program, the balances of the credit hours required for graduation are “free electives.” **Because of the CORE, Major, and Secondary Education requirements, there are no “Free Electives” for students majoring in Mathematics/Secondary Education.**

**Mathematics / Secondary Education**

**Suggested Sequence**

* Use the information below as a guide when selecting courses.
* Refer to the reverse side when selecting major courses, major electives, core courses, and free electives when applicable.
* Consult your Academic Advisor prior to course registration.
* Refer to the King’s College Catalog and/or website for course titles and descriptions.
* Choose one course from each CORE category as listed on the reverse side.
  + CORE courses may be taken in any order approved by the academic advisor with the following conditions:
    - CORE 100 and CORE 110 should be taken in the first year.
    - CORE 115 (or 116) should be taken within the first two years.
    - If CORE 098, CORE 099, and/or CORE 110L is required, then the student will need to take summer courses to graduate within 4 years.
    - For students selecting a Foreign Language (CORE 14x), every effort should be made to register for that language in the first semester at King’s.

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **4 Years (Student Teaching in Spring Semester of Senior Year)** | | | | | | | | | | | | | |
|  | **1st Year - Fall** | | cr. | |  | |  | | **1st Year - Spring** | | cr. | | |
|  | MATH 127 | | 3 | |  | |  | | MATH 130 | | 4 | | |
|  | MATH 129 | | 4 | |  | |  | | CS 115 or CS 117 | | 3 | | |
|  | CS 116 | | 3 | |  | |  | | CORE | | 3 | | |
|  | CORE | | 3 | |  | |  | | CORE | | 3 | | |
|  | CORE | | 3 | |  | |  | | CORE | | 3 | | |
|  | CORE 090 | | 1 | |  | |  | |  | |  | | |
|  |  | | **17** | |  | |  | |  | | **16** | | |
|  | **Summer Session\*\*\*** | |  | |  | |  | |  | |  | | |
|  | CORE | | 3 | |  | |  | |  | |  | | |
|  | **2nd Year - Fall** | |  | |  | |  | | **2nd Year – Spring** | |  | | |
|  | MATH 231 | | 4 | |  | |  | | MATH 250 | | 4 | | |
|  | MATH 235 | | 3 | |  | |  | | MATH 2363 /CORE | | 3 | | |
|  | Science Group\* | | 3 | |  | |  | | CORE | | 3 | | |
|  | EDUC 202 | | 3 | |  | |  | | Science Group\* | | 3 | | |
|  | EDUC 2352 | | 3 | |  | |  | | EDUC 2402 | | 3 | | |
|  | EDUC 231 | | 1 | |  | |  | |  | |  | | |
|  |  | | **17** | |  | |  | |  | | **16** | | |
|  | **PRAXIS I4** (PPST’s taken and passed) | | | | | | | | | | | | |
|  | **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) | | | | | | | | | | | | |
|  | | **Summer Session\*\*\*** | |  | |  | |  | |  | |  | |
|  | | CORE | | 3 | |  | |  | |  | |  |
|  | | **3rd Year – Fall** | |  | |  | |  | | **3rd Year – Spring** | |  |
|  | | MATH 367 | | 3 | |  | |  | | MATH 490 | | 1 |
|  | | MATH 3613 | | 3 | |  | |  | | MATH 2363 /CORE | | 3 |
|  | | EDUC 3662 | | 3 | |  | |  | | MATH 3623 | | 3 |
|  | | EDUC 3202 | | 3 | |  | |  | | EDUC 270 | | 3 |
|  | | CORE/ MATH Elective\*\* | | 3 | |  | |  | | EDUC 3052 | | 3 |
|  | | EDUC 331 | | 1 | |  | |  | | CORE / MATH Elective\*\* | | 3 |
|  | |  | | **16** | |  | |  | |  | | **16** |
|  | | **4th Year - Fall** | |  | |  | |  | | **4th Year - Spring** | |  |
|  | | MATH 425 | | 3 | |  | |  | | EDUC 4672 | | 7 |
|  | | CORE / MATH Elective\*\* | | 3 | |  | |  | | EDUC 4682 | | 2 |
|  | | EDUC 3502,4 | | 3 | |  | |  | | EDUC 440 | | 3 |
|  | | CORE | | 3 | |  | |  | |  | |  |
|  | | CORE | | 3 | |  | |  | |  | |  |
|  | | CORE | | 3 | |  | |  | | **Take Praxis II** | |  |
|  | |  | | **18** | |  | |  | |  | | **12** |

**Total Credits Required for Graduation = 134 - 134**

\*\*\* Summer Session is suggested in order to finish the degree in four years (including student teaching).

**NOTE:** All Secondary Teacher Certification candidates must complete six credits of college level mathematics and six credits of college level English:

|  |  |  |
| --- | --- | --- |
| **Math Courses** | MATH 129 | MATH 130 |
| **English Courses** | CORE 110 | CORE 16\_\_ |

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.