CHEMISTRY PLANNING FORM

**Student Name:**

**Education Program: Secondary Chemistry**

**BA or MAT:**

**Content Major:**

**Content Major Advisor:**

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| **Secondary Chemistry Required Content Area/ Licensure Courses** | | |
| **Course** | **Semester Enrolled** | **FFC Requirement** |
| **CHEM 115—**Chemistry I |  | Natural Sciences |
| **CHEM 116—**Chemistry II |  | Natural Sciences |
| **CHEM 220**—Organic Chemistry I |  |  |
| **CHEM 221—**Organic Chemistry II |  |  |
| **CHEM 320**—Physical Chemistry I |  | Technology |
| **CHEM 321—**Physical Chemistry II |  | Technology and Experiential Learning |
| **One additional course from the following: CHEM** 300, 340, 430, 494 |  |  |
| **CHEM 410—**Senior Seminar |  | Experiential Learning |
| **Other Courses Required for Full Chemistry Major** | | |
| **PHYS 110 OR 120—**Introductory Physics |  | Natural Sciences |
| **PHYS 111 OR 121—**Introductory Physics |  | Natural Sciences |
| **MATH 110—**Calculus I |  | Quantitative Reasoning |
| **MATH 111—**Calculus II |  | Quantitative Reasoning |
| **Broad Field Science Courses Required for Licensure** | | |
| **BIOL 120—**Organismal Biology |  | Natural Sciences |
| **BIOL 220**—Ecology and Evolution |  | Natural Sciences and Technology |
| **PHYS 101, 102, or 103--**Astronomy |  | Natural Sciences |

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| **Additional Required Licensure Courses** | **Semester Enrolled** | **FFC Requirement** |
| **PSYC 110**—Intro. to Psychology |  | Natural Sciences (only if taken at LFC) |
| **PSYC 210—**Develop. Psychology |  | Social Sciences |

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| **Secondary Education Required Courses** | | |
| **COURSE** | **Semester Enrolled** | **FFC Requirement** |
| **EDUC 210**--Observing the Schooling Process |  | Writing Intensive |
| **EDUC 215-**-Instructional Communication |  | Speaking Intensive |
| **EDUC 220/PHIL 220**--Philosophy of Education (EDUC 220 required for MAT candidates)  **OR**  **SOAN 244**--Anthropology of Education  **OR**  **HIST 239**--History of Education |  | Humanities for EDUC 220  Humanities and Domestic Pluralism (EDUC 239) |
| **EDUC 313/413**--Reading in the Content Areas |  |  |
| **EDUC 315/415** —Middle School Fieldwork & Seminar |  | Experiential Learning |
| **EDUC 314/414** —Inclusive Learning Environments |  | Social Sciences and Domestic Pluralism |
| **EDUC 419/ 519L**-- Secondary Curriculum & Instructional Design |  | \*Technology Intensive for BA candidates |
| **EDUC 420/520** -- Discipline Specific Secondary Instructional Design |  |  |
| **EDUC 421/521L** —Secondary Student teaching |  | \*Experiential for BA candidates |
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| **MAT Stand-Alone Courses** | | |
| **EDUC 501**—Introduction to Teacher Research |  |  |
| **EDUC 519X –** Seminar on Advanced Themes |  |  |
| **EDUC 521X**—Teacher Action Research Project |  |  |

\*EDUC 519 and 521 take place AFTER graduating/earning your BA for MAT students, so cannot count toward technology or experiential tag for MAT students

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| **Additional Required Courses for Optional Endorsements** | | |
| **ESL/ Bilingual** | **LBSI** | **Additional Content Area Endorsement** |
| LING 300 |  |  |
| EDUC 448/548  (Pre-requisite EDUC 215) | EDUC 486/586  (Pre-requisite EDUC 314/414) | EDUC 406/506  (Pre-requisite 18 semester hours in relevant content) |

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| **FFC Requirements** | **Semester Enrolled** | **Course** |
| **1 Natural Science** |  | PSYC 110 (only if taken at LFC); multiple content courses above |
| **1 Quantitative Reasoning** |  | MATH 110, 111 |
| **1 Humanities** |  | EDUC 220 or 239 |
| **1 Social Sciences** |  | EDUC 210, 215, 314  PSYC 210 |
| **1 Creative and Performing Arts** |  |  |
| **1 Global Perspectives** |  |  |
| **1 Domestic Pluralism** |  | EDUC 239, 314/414, 315/415 |
| **1 Writing Intensive** |  | EDUC 210 |
| **1 Speaking Intensive** |  | EDUC 215 |
| **1 Technology Intensive** |  | EDUC 419 (for BA candidates only);  CHEM 320, 321  BIOL 220 |
| **Experiential Learning** |  | EDUC 315/415;  EDUC 421 (for BA candidates only) |

SECONDARY CHEMISTRY SEMESTER PLANNING SHEET (BA)

**Student Name:**

**Education Program: Secondary Chemistry (BA)**

**Content Major:**

**Content Major Advisor:**

\*\*Courses in **BOLD** must be taken in that specific semester. Other courses not in BOLD are flexible and can be moved around to other semesters, but should be taken before Fieldwork semester (EDUC 315)\*\*

\*\*Note, the FFC tags noted here are as of spring of 2022. FFC tags may change. It is YOUR responsibility to ensure you are meeting all FFC requirements by the time you graduate

\*\*Need to earn at least B- in all EDUC courses; at least C in all major and licensure courses

**Academic year:**

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| **Fall** | **Spring** | **Summer** |
| **FIYS** | PSYC 110 |  |
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**Academic year:**

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| **Fall** | **Spring** | **Summer** |
| EDUC 210 | EDUC 215 |  |
| PSYC 210 | EDUC 220 |  |
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**Academic year:**

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| **Fall** | **Spring** | **Summer** |
|  | **EDUC 313** |  |
|  | **EDUC 315 (fieldwork)** |  |
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**Academic year:**

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| **Fall** | **Spring** | **Summer** |
| **EDUC 419** | **EDUC 314** |  |
| **EDUC 422** | **EDUC 421↓ (student teaching, 3 credits)** |  |
| **\*EDUC 448 or 486 (optional endorsement courses)** |  |  |
| **EDUC 406 (optional content endorsement course)** |  |  |

\*If earning LBS1 endorsement, EDUC 314 is a pre-requisite for that course. Talk with your advisor about taking EDUC 314 the previous spring rather than during student teaching.

SECONDARY CHEMISTRY SEMESTER PLANNING SHEET (MAT)

**Student Name:**

**Education Program: SECONDARY CHEMISTRY (MAT)**

**Content Major:**

**Content Major Advisor:**

\*\*Courses in **BOLD** must be taken in that specific semester. Other courses not in BOLD are flexible and can be moved around to other semesters, but should be taken before Fieldwork semester (EDUC 315)\*\*

\*\*Note, the FFC tags noted here are spring of 2022. FFC tags may change. It is YOUR responsibility to ensure you are meeting all FFC requirements by the time you graduate

\*\*Need to earn at least B- in all EDUC courses; at least C in all major and licensure courses

**Academic year:**

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| **Fall** | **Spring** | **Summer** |
| **FIYS** | PSYC 110 |  |
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**Academic year:**

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| **Fall** | **Spring** | **Summer** |
| EDUC 210 | EDUC 215 |  |
| PSYC 210 | EDUC 220 |  |
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**Academic year:**

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| **Fall** | **Spring** | **Summer** |
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**Academic year:**

***Complete BA in content major at end of Spring semester (complete minor in Education)***

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| **Fall** | **Spring** | **Summer** |
|  | **EDUC 413** | **EDUC 501** |
|  | **EDUC 415 (fieldwork)** |  |
|  | **EDUC 414** |  |
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**Academic year:**

***Complete MAT and Licensure at end of Spring semester***

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| **Fall** | **Spring** | **Summer** |
| **EDUC 519L** | **EDUC 521L (student teaching)** |  |
| **EDUC 519X (MAT Seminar)** | **EDUC 521X (MAT Seminar** |  |
| **EDUC 520** |  |  |
| **EDUC 506 (optional endorsement course)** |  |  |
| **EDUC 548 or 586 (optional endorsement course)** |  |  |