

**B.S.Ed. in INTEGRATED SCIENCE EDUCATION** (Comprehensive Major) UNIVERSITY PHYSICS OPTION 8/2020  
 2020 FOUR YEAR CURRICULUM GUIDE  
 DEPARTMENT OF CHEMISTRY/GEOLOGY/PHYSICS

| Year 1        |  |           | Year 1          |                             |           |
|---------------|--|-----------|-----------------|-----------------------------|-----------|
| Fall Semester |  |           | Spring Semester |                             |           |
| Course #      | Title                                    | Cr.       | Course #        | Title                       | Cr.       |
| EDFN 130      | Intro. to Teaching                       | 3         | EDFN 202        | Teaching & Learning Process | 3         |
| CHEM 103      | Gen. Chem. I (fa only, Core 1)           | 4         | CHEM 104        | Gen. Chem. II (sp only)     | 4         |
| BIO 201       | Molec. & Cellular Basis of Life (Core 2) | 4         | BIO 202         | Organisms, Adap. & Divers.  | 4         |
| GEOL 101      | Physical Geology                         | 4         | ENG 102         | Composition II (Core 4)     | 3         |
| ENG 101       | Composition I (Core 3)                   | 3         | CORE/CCI*       | Inst. Requirement (Core 5)  | 3         |
|               | <b>TOTAL</b>                             | <b>18</b> |                 | <b>TOTAL</b>                | <b>17</b> |

| Year 2           |   |              | Year 2          |                                       |              |
|------------------|---|--------------|-----------------|---------------------------------------|--------------|
| Fall Semester    |   |              | Spring Semester |                                       |              |
| Course #         | Title   | Cr.          | Course #        | Title                                 | Cr.          |
| EDIS 250         | Intro. to Educ. Intervention                            | 3            | EDCI 230SEC     | AYA Field Experience I                | 1            |
| MATH 205         | Calculus I (fa only, Core 6)                            | 5            | EDCI 232        | Intro. to Prin. of Instr. Tech.       | 3            |
| CHEM 320 or CORE | Quant. Analysis (fa only) or Inst. Requirement (Core 7) | 3-4          | MATH 206        | Calculus II (sp only)                 | 5            |
| BIO 303          | Genetics  | 4            | GEOL 102        | Hist. Geol. (sp even) or BIO Elective | 3-4          |
| CORE             | Inst. Requirement (Core 8)                              | 3            | CORE            | Inst. Requirement (Core 9)            | 3            |
|                  | <b>TOTAL</b>  | <b>18-19</b> |                 | <b>TOTAL</b>                          | <b>15-16</b> |

| Year 3           |   |              | Year 3                 |                                       |              |
|------------------|---|--------------|------------------------|---------------------------------------|--------------|
| Fall Semester    |   |              | Spring Semester        |                                       |              |
| Course #         | Title   | Cr.          | Course #               | Title                                 | Cr.          |
| EDCI 318         | Teaching Science  | 3            | BIO choice or GEOL 102 | BIO Elective or Hist. Geol. (sp even) | 3-4          |
| EDCI 330SEC      | AYA Field Experience II                                 | 3            | PHYS 206               | University Physics II (sp only)       | 5            |
| PHYS 205         | University Physics I (fa only)                          | 5            | PSYCH 218              | Psych. of Adol. (Core 11)             | 3            |
| CORE or CHEM 320 | Inst. Requirement (Core 7) or Quant. Analysis (fa only) | 3-4          | CORE                   | Inst. Requirement (Core 12)           | 3            |
| CORE             | Inst. Requirement (Core 10)                             | 3            | CORE                   | Inst. Requirement (Core 13)           | 3            |
|                  | <b>TOTAL</b>  | <b>17-18</b> |                        | <b>TOTAL</b>                          | <b>17-18</b> |

| Year 4        |   |     | Year 4          |                                |     |
|---------------|---|-----|-----------------|--------------------------------|-----|
| Fall Semester |   |     | Spring Semester |                                |     |
| Course #      | Title   | Cr. | Course #        | Title                          | Cr. |
| EDCI 392      | Content Area Reading  | 3   | EDFN 402        | Social & Prof. Issues in Educ. | 2   |
| PHYS choice   | PHYS 107 Hidden Life of Stars or PHYS 320 Origins of Universe | 3   | EDCI 461        | Student Internship Gr. 7-12    | 10  |
| BIO choice    | BIO Elective  | 3-4 |                 |                                |     |

|          |  |              |  |              |           |
|----------|--|--------------|--|--------------|-----------|
| CHEM 350 | CHEM/GEOL/PHYS/PHIL 350<br>Sci. Cultural Force (Core 14) | 3            |  |              |           |
| CORE     | Inst. Requirement (Core 15)                              | 3            |  |              |           |
|          | <b>TOTAL</b>   | <b>15-16</b> |  | <b>TOTAL</b> | <b>12</b> |

**132-133 total credit hours required for degree**

*\*The Critical Cultural Inquiry (CCI) requirement can be completed by either one value-added foreign language course, an approved study-away or study abroad experience, or one CCI course. One slot should be allotted for CORE/CCI, but students completing the requirement with study abroad, can substitute an elective if necessary to reach 120 hours. If students are continuing a language study, it is preferable to take the course during the first semester of the first year.*