

**\*BIOLOGY SECONDARY EDUCATION GRADUATION REQUIREMENTS – 50 hours**

(Certification in Science with designation in Biology)

I. Core (30 hrs)

- a. BIOL 241 Organization of Life: Genetics & Cell Biology (4) **Fall only**
- b. BIOL 242 Diversity of Life: Introduction to Zoology & Botany (4) **Spring or Summer at the Black Hills**
- c. BIOL 243 Processes of Life: Ecology & Evolution (4) **Fall or Summer at the Black Hills**
- d. BIOL 252 Modeling the Systems of Life (4) **Fall and Spring**
- e. BIOL 356 Genetics (4) **Spring only**
- f. **Choose 1:** BIOL 364 Microbiology and Immunology **Fall Only** OR BIOL 362 Cell and Developmental **Alternating SPRING semesters, EVEN years**
- g. BIOL 3xx Any other Biology Lab Course (4)
- h. BIOL 494 The Integrated Biologist (2) **Fall and Spring**

II. Required supporting courses (20 hrs)

- a. CHEM 231 (**Fall**) & 232 (**Spring**) General Chemistry I & II (8)
- b. CHEM 241 Principles of Organic Chemistry (4) **Fall**
- c. Choose 1: GEOL 201(4), GEOL 211(4), GEOL 221(4), ASTR 305 (4), PHYS 221(4) or ENVR 221 (4)
- d. SCI 325 Middle School Science Methods (2) **Fall Only**
- e. SCI 321 High School Science Methods (2) **Spring Only**  
**\*\*SCI 321** must be taken the school year before you plan to student teach (example. If you take SCI 321 in Spring 2017, you would student teach the following Fall 2017 or Spring 2018)

III. Lab work – highly recommended

- 2 semesters of lab assistance in department

---

**MAT Program:**

Those interested in pursuing an **Accelerated** Masters in Teaching as an undergraduate can complete **either** the Biology Education track of courses listed above **OR** the traditional biology major track with the addition of the supporting science classes above. **Either track** of Biology coursework may be chosen to meet the MAT requirement but a hybrid of Biology courses between the two tracks cannot. All Education coursework remains the same regardless of what track is chosen.

Those interested in pursuing the MAT who already obtain a Bachelors Degree should contact Dr. IL-Hee Kim, our MAT coordinator and/or Mrs. Betsy Leong, our Science Education Coordinator with any questions: [betsy.leong@wheaton.edu](mailto:betsy.leong@wheaton.edu).

---