

**Integrated Science Content Mastery**

**Double Degree and Master of Science**

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| **Name:** |  | **Date:** |  |

The purpose of this form is to demonstrate competence in the above field. List the courses or experiences that you have had as well as those to be completed before the beginning of the program.

The Content Domains align with the NES *General Science* exam required for licensure in Integrated Science.  
<https://www.orela.nesinc.com/Content/Docs/NES_Framework_311.pdf>   
If you have questions how the courses fit within your science program, please contact your program advisor.

Complete this form digitally and submit with your application.   
Students are required to complete at least 45 credits of content mastery courses. A cumulative 3.0 GPA is preferred on all required courses. All content mastery courses must be taken on an A to F basis; no P/N or S/U grades accepted for content mastery courses. Grades below C- are not accepted.

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| **Content Domains** | **Examples of OSU Courses** | **Course Designator & Number** | **Credits** | **Term/Year** | **Grade** |
| **Physical Science: Physics**  **Minimum 12 credits** | PH 201\*, 202\*, 203\*  **or**  PH 211\*/221, 212\*/222, 213\*/223 |  |  |  |  |
| **Physical Science: Chemistry**  **Minimum 12 credits** | CH 231\*/261\*, 232\*/262\*, 233\*/263\*  **or (for Chemistry majors)**  CH 231\*/271\*, 232\*/272\*, 233\*/273\* |  |  |  |  |
| **Life Science**  **Minimum 15 credits** | BI 101, 102, 103  **or**  BI 211\*, 212\*, 213\*  **And**  one additional biology class  or  SOIL 205, 206, or 395 |  |  |  |  |
| **Earth & Space Science**  **Minimum 18 credits   Include at least one class from each subject area** | **Astronomy:** PH 104\*, 205\*, 206\*, 207\*  **Atmospheric Sciences:** ATS 201\*, 310  **Geology:**  GEO 201\*, 202\*, 203\*, 221\*, 305\*, 306\*, 307\*, 308\*, 352\*  **Oceanography:** OC 201\*, 332 |  |  |  |  |
| **Science Education**  **Minimum 3 credits** | SED 413 (secondary section)  **or** SED 416 |  |  |  |  |

\*Meets Baccalaureate Core Requirement

Note: 1 Semester hour = 1 ½ Quarter hours

If you have questions about content mastery and teacher licensure, please contact Carol McKiel, carol.mckiel@oregonstate.edu