

**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 Integrated Science. Students are required to complete **at least 60 credits** of content mastery courses. To complete the form, list courses taken; include the planned terms for courses not taken. A University Honors course can be substituted for the corresponding course. If you have questions how the courses fit within your major, please contact your program advisor. Submit the completed form with your application.

The suggested courses help students prepare for the NES *General Science* exam required for a teaching endorsement in Integrated Science. <https://www.orela.nesinc.com/Content/Docs/NES_Framework_311.pdf>   
  
A cumulative 3.0 GPA is preferred on all required courses. Grades below C- are not accepted. All content mastery courses must be taken on an A-F basis; no P/N or S/U grades can be accepted for content mastery courses.

If you have questions about this form, please contact Carol McKiel at [carol.mckiel@oregonstate.edu](mailto:carol.mckiel@oregonstate.edu)

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| **Content** | **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\* (or BI 221, 222, 223)\*  **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**  **3 credits** | SED 413  (or take SED516 during the program) |  |  |  |  |

\*Meets Baccalaureate Core Requirement Note: 1 Semester hour = 1 ½ Quarter hours