

**Integrated Science Content Mastery**

**Evidence of Content Mastery for Requested Authorization Level and/or Endorsement Area**

Authorization Level: Middle/High School

The Standard/Outcomes matrix is based on the following State and/or National Standards:

National Science Teacher Association

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_

\*\* **3.0 accumulative GPA preferred** on all coursework used to fulfill the 49-54 credits of content mastery requirements. All content mastery courses must be taken on the A-F grading basis; **no courses can earn P/N or S/U. No grades below C-**

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| --- | --- | --- | --- | --- | --- |
| **Standard/Outcome** | **OSU courses that**  **satisfy standard** | **Course** | **Credits** | **Term** | **Grade** |
| **WIC choose one:** | BI 317 or BI 317 or MB 311 |  |  |  |  |
| **Choose One Emphasis Area** |  |  |  |  |  |
| **Standard 1:** Introductory Physics Sequence  **9-10 Credits/15 Credits for emphasis** | **PH** 201, 202, 203 **or**  **PH** 211, 212, 213  **Optional:** May replace 1 course in series with an Astronomy course  **PH** 104\*, 205\*, 206\*, 207\* |  |  |  |  |
| **Standard 2**: Introductory Chemistry Sequence  **10 Credits/15 Credits for emphasis** | **CH** 231, 232, 233 with labs  **CH** 261 |  |  |  |  |
| **Standard 3:** Biology Sequence  **8 Credits/ 12 Credits for emphasis** | **BI** 101, 102, 103 **or**  **BI** 211, 212, 213 |  |  |  |  |
| **Standard 4: Geosciences Sequence**  *Geosciences include geology (excluding geography and geographic information systems) as well as appropriate atmospheric science and oceanography courses. Chose full series plus 1 additional course if this is an emphasis area. If not emphasis, minimum of 1 introductory sequence course.*  **7-8 Credits/15 Credits for emphasis** | Introductory Sequence:  **GEO** 201\*, 202\*, 203\*  Other Geology:  **GEO** 221\*, 305\*, 306\*, 307\*, 308\*, 352\*  Atmospheric Sciences:  **ATS** 210, 320\* |  |  |  |  |
| **Standard 5:** Upper-division Course Work  Must be completed in your emphasis area.  **6 Credits** |  |  |  |  |  |
| **Standard 6:** Science Education  **3 Credits** | **SED** 413 (Secondary Section) |  |  |  |  |

\*Baccalaureate Core Course \*^ Writing Intensive Course (WIC)



If you have questions about this form or the Integrated Science endorsement, please contact College of Education Student Services, 104 Furman Hall, 541 737-4661.