

**Physics Content Mastery**

**Double Degree or Master of Science**

The purpose of this form is to demonstrate competence in the above field. Complete this form digitally and submit with your application. Students are required to complete at least 48 credits of content mastery courses.

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

A cumulative 3.0 GPA is preferred on all required courses. All content mastery courses must be taken on an A-F basis; no P/N or S/U grades accepted for content mastery courses. Grades below C- are not accepted.

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| **Standard/Outcome** | **Examples of OSU courses that satisfy standard** | **Course Designator & Number** | **Credits** | **Term/Year** | **Grade** |
| **Standard 1:** Physics Sequence  **15 credits** | PH 211\*/221, 212\*/222, 213\*/223 |  |  |  |  |
| **Standard 2:** Chemistry Sequence  **15 credits** | CH 231\*/261\*, 232\*/262\*, 233\*/263\* |  |  |  |  |
| **Standard 3:** Paradigms in Physics\*\*  **12 credits** | **Choose 12 credits:**  PH 422, 423, 424, 425, 426, 427 |  |  |  |  |
| **Standard 4:** Modern Physics Electives  **3 credits min** | **Choose at least 3 credits:**  PH 315, 335, 411, 415, 465, 481  PH/ECE 482, 483 |  |  |  |  |
| **Standard 5.** Science Education  **DD students: 3 credits**  **MS students: 6 credits** | **DD students:** SED 413(Secondary Section)  **MS students:** SED 412 **AND** SED 413 (Secondary Section) **OR** SED 416 |  |  |  |  |

\*Meets Baccalaureate Core Requirement

\*\*The Paradigms series of course is unique to OSU. If you received a degree from another institution these courses equate to 12 quarter credits of a mixture of advanced physics and modern physics courses.

Note: A degree in engineering is largely sufficient for acceptance into the program. Most engineers will be required to take course work in thermodynamics and modern physics (e.g. PH 314 if not part of an undergraduate degree).

Note: 1 semester hour=1 ½ quarter hours

If you have questions about this form, please contact Carol McKiel at 541-737-1546.