| MS in Physics or Astronomy | | | | |
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| (1) Where are the learning outcomes for this level/program published? (please specify) Include URLs where appropriate. | (2) Other than GPA, what data/ evidence is used to determine that graduates have achieved the stated outcomes for the degree? (e.g., capstone course, portfolio review, licensure examination) | (3) Who interprets the evidence? What is the process? (e.g. annually by the curriculum committee) | (4) What changes have been made as a result of using the data/evidence? | (5) Date of most recent program review (for general education and each degree program) |
| Master's recipients demonstrate minimum competency in outcomes defined for the PhD, assessed in a different way and to a different level of achievement: Students will be able to: Demonstrate the tools to create new knowledge in the discipline of physics or astronomy Communicate effectively orally and in writing Solve physics or astronomy problems using logical, mathematical and computational skills Demonstrate an understanding of the key concepts in the core areas of physics or astronomy Demonstrate competency teaching physics or astronomy topics and problem solving in a classroom setting | Master's recipients demonstrate competence in one of three ways: 1. A co-authored paper 2. Successful completion of core competency requirements (formerly the qualifying exams) 3. A master's thesis | Every year the department reviews students who leave with a master's degree, paying special attention to the two- thirds for whom the department initiated departure. | Recent changes have largely been a response to concerns about equity in students' opportunity to demonstrate achievement of outcomes. Since a time-limited qualifying exam does not reflect real-world circumstances, students demonstrate readiness for candidacy based on high grades in certain courses or, if the high grade threshold is not met, a take-home written assessment and an oral component. | Fall 2018 |