

Assessment: Assessment Plan

Degree Program - AS - Physics (MS)

CIP Code: 40.0801.00

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Program Purpose Statement: To evaluate the effectiveness of the MS Program in Physics.

Options and Degree Requirements per catalog statement:

M.S. Degree in Physics, Thesis Option: A minimum of 24 hours of course credit plus 6 hours of thesis research with a minimum of 18 hours in the department. The thesis is defended in a final oral examination.

M.S. Degree in Physics, Nonthesis Option: 36 hours of course credit with a minimum of 24 hours in the department, plus passing a master's comprehensive examination.

Modality: Face-to-Face

Student Learning Outcome: Employability

MS graduates will predominantly take jobs after graduation for which skills acquired during the MS are important or will enroll in a PhD program at TTU or elsewhere

Outcome Status: Active

Outcome Type: Student Learning

Assessment Methods

Course Level Assessment - Tracking student employment or enrollment status after MS degree is obtained (Active)

Criterion: Within one year from graduation, 80% of the students are employed in jobs normally occupied by MS or continue towards PhD

Student Learning Outcome: Rapid Progression towards the MS Degree

Full-time students will successfully complete their MS requirements within 2.5 years of entering the graduate program in physics or astronomy

Outcome Status: Active

Outcome Type: Student Learning

Start Date: 08/01/2017

Assessment Methods

Master's Comprehensive Exam - The Graduate Advisor and the Academic Advisor will be responsible for tracking the time it takes MS students to obtain their degree (Active)

Criterion: 60% of MS students should obtain their degree in 2.5 years

Degree Program - AS - Physics (MS)

Student Learning Outcome: Teaching Proficiency

MS students employed as TAs and GPTIs become proficient in teaching physics and/or astronomy

Outcome Status: Active

Outcome Type: Student Learning

Start Date: 08/01/2017

Assessment Methods

Survey - Student - Analysis of TA and GPTI student evaluations (Active)

Criterion: Less than 25% TAs and GPTIs in the MS program should have the average score below 3.5 for the student survey question asking whether the instructor was an effective teacher