

# PhD in Physics

In general, programs of study should be developed by students with their advisors.

\*Required Courses – 17 credits

\*\*Electives – 17 credits

Doctoral Thesis – 26 credits

## Year 1

*First attempt at Qualifying Exam (August)*

### Fall semester

- PHSX 501 - Mathematical Methods and Their Applications in Classical Mechanics (3)\*
- PHSX 506 - Quantum Mechanics I (3)\*
- PHSX 594-001 - Teaching Seminar (1)\*
- Elective (optional)\*\*

*Second attempt at Qualifying Exam if needed (January)*

### Spring semester

- PHSX 519 - Mathematical Methods and Their Applications in Electromagnetic Theory (3)\*
- PHSX 535 - Statistical Mechanics (3)\*
- PHSX 594-015 - Introduction to Research (1)\*
- Elective (optional)\*\*

## Year 2

*Third attempt at Qualifying Exam if needed (August)*

### Fall semester

- PHSX 520 - Electromagnetic Theory II (3) **or** ASTR 550 - Radiative Processes in Astrophysics (offered Spring even years)\*
- Elective\*\*
- Elective (optional)\*\*

*Fourth attempt at Qualifying Exam if needed (January)*

### Spring semester

- Elective\*\*
- Elective\*\*
- Elective (optional)\*\*

*PhD Candidacy/Comprehensive Exam (scheduled no later than Spring of the second year)*

## Year 3

- Complete electives\*\*
- PHSX 690 - Doctoral Thesis

## Year 4

- PHSX 690 - Doctoral Thesis

## Year 5/6

- PHSX 690 - Doctoral Thesis