Department: Physics
Degree: MS

GRADUATE LEARNING GOALS & OUTCOMES

CORE SKILLS:
After completing their Masters degree, students will
1. be able to teach Physics at the high school level,
2. be able to effectively present, both orally and in writing, their knowledge of physics,
3. recognize and practice ethical behavior in the sciences, and
4. be prepared for a career in Physics.

KNOWLEDGE:
After completing their Masters degree, students will
1. have a broad understanding of the major fields of Physics,
2. have an understanding and proficiency at the graduate level of Quantum Mechanics, Electromagnetism, Statistical Mechanics, and Laboratory Methods.

SOCIAL JUSTICE:
After completing their Masters degree, students will
1. understand the potential impact of scientific discoveries on society, and
2. understand the responsibilities of conducting publicly funded research.

GRADUATE OUTCOMES:
After obtaining their Masters degree, our students go on to PhD programs, become teachers in high schools, and are employed in industry and the public sector.
Department: Physics
Degree: PhD

GRADUATE LEARNING GOALS & OUTCOMES

CORE SKILLS:
After completing their PhD, students will
1. be able to perform independent and original research in their area of specialization,
2. be able to teach Physics at the college or high school level,
3. be able to effectively present, both orally and in writing, their research findings,
4. recognize and practice ethical behavior in the sciences, and
5. be prepared for a career in Physics.

KNOWLEDGE:
After completing their PhD, students will
1. have a broad understanding of the major fields of Physics,
2. have an understanding and proficiency at the graduate level of Quantum Mechanics,
   Electromagnetism, Statistical Mechanics, and Laboratory Methods, and
3. have an in-depth understanding of the field of Physics relevant to their thesis research.

SOCIAL JUSTICE:
After completing their PhD, students will
1. understand the potential impact of scientific discoveries on society, and
2. understand the responsibilities of conducting publicly funded research.

GRADUATE OUTCOMES:
After obtaining their PhDs, our students become postdoctoral fellows at top research labs and universities, become lecturers at universities, and are employed in industry and the public sector.