

Student Learning Goal 1: Physics majors will know how to learn physics.

Students will:

- Objective A: Critically assess written expositions of physics, contrasting those ideas which are fundamental from those which are consequential;
- Objective B: Identify the circumstances under which a principle applies.

Student Learning Goal 2: Physics majors are critical thinkers that can produce analytical solutions to physical problems.

Students will:

- Objective A: Identify a problem and generate equivalent statements of a problem;
- Objective B: Delineate the principles of physics and analytical techniques used to obtain a solution to a problem;
- Objective C: Apply the principles and techniques of physics to obtain a solution to a problem;
- Objective D: Demonstrate the correctness of a solution by showing that it yields expected results in limiting and other special cases.

Student Learning Goal 3: Physics majors possess the technical skills needed to function effectively in a physics laboratory.

Students will:

- Objective A: Collect a broad range of data with an ability to adapt to new experimental methods, apparatus and tools;
- Objective B: Apply fundamental statistical methods to analyze data;
- Objective C: Display data with clarity;
- Objective D: Draw sound conclusions from the results of data analysis.

Student Learning Goal 4: Physics majors communicate ideas in physics with precision and clarity.

Students will:

Objective A: Produce precise and clear expository written material about physics;

Objective B: Produce well-organized and clear oral presentations of physics material