## Major: Physics, B.S.

Department of physics
The physics major is primarily for students planning to work toward an advanced degree in physics or a related area.
The physics courses emphasize conceptual foundations, problem-solving skills, and experimental techniques. Students participate in research focused primarily on theoretical physics, instrumentation, experimental solid state and high-energy physics, and physical oceanography. The department also offers courses required for professional and pre-professional programs such as engineering and medicine.

${ }^{\wedge}$ First math course is determined by math placement exam. This schedule presupposes placement into Math 1296. Students may take MATH 1596 and 1597, Honors Calculus I and II, in place of MATH 1296 and 1297.
\# With departmental approval, a different one-semester computer-programming course may be substituted for CS 1131
${ }^{1}$ Or Chem 1161 Honors General Chemistry I. A second semester of chemistry is recommended (Chem 1152 or Chem 1162.)
*Courses numbered above 3000 will be offered in alternate years only. Some courses listed for years 3 and 4 may need to be interchanged to match the course offerings.

## FOR ADDITIONAL INFORMATION:

> Department of Physics
> 371 Marshall W. Alworth Hall
> 218.726.7124
> phys@d.umn.edu
> http://www.d.umn.edu/physics

## Physics, B.S.


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NOTE: In addition to the above requirements, students must complete the liberal education program and a minor (or a second major) to earn a B.S. degree.

