

**Introduction to Physics
Course Syllabus**

**Textbook**

Our sole text for this course will be [Introduction to Physics, Second Edition](https://www.washington.edu/accesscomputing/AU/after.html), authored by the instructor.

Course Objectives

● To offer students exposure to basic principles of Physics

● To provide students with rich, thought-provoking discussions during laboratory sessions

● To provide students with experiential learning opportunities during laboratory sessions

**Class Schedule**

|  |  |  |
| --- | --- | --- |
| Week | Topic | Reading Assignment |
| 1 | Course Introduction | Chapter 1 |
| 2 | Inertia, equilibrium, kinematics | Chapters 2-3 |
| 3 | Newton’s laws, vectors, momentum, energy | Chapters 4-7 |
| 4 | Matter, elasticity, scaling | Chapters 8-10 |
| 5 | Wave kinematics, sound, electricity, magnetism, induction | Chapters 11-15 |
| 6 | Light, reflection and refraction, emission | Chapters 15-18 |
| 7 | Review, final exam |  |

**Grades**

Grades will be assigned on a ten-point scale (90 to 100 is an A, 80 to 89 is a B, etc.). Homework, exams, and projects will be weighted as follows:

|  |  |  |
| --- | --- | --- |
| **Homework** | **Exams** | **Projects** |
| **1** | **2** | **Final** | **1** | **2** | **Final** |
| 15% | 15% | 15% | 20% | 10% | 10% | 15% |

Ce programme est également disponible en français sur demande.