

August 27, 2019: Physics 20300 Overview

- Professor:
 - Jufeng Tu, Office: Fridays, 10:30 AM-12:30 PM, Marshall MR 300
 - Email is jtu@uconn.edu
- Units:
 - 1: Kinematics (what is motion). Followed by midterm 1.
 - 2: Dynamics (why things move? Newton's second law). Followed by midterm 2.
 - 3: Thermodynamics (heat and temperature). Followed by final exam.
- Grading:
 - 2 midterms are worth 30% of grade each, final exam is worth 40% of grade.
 - Allowed to bring calculator and a formula sheet (front and back) of your making.
 - HWs and lab reports are worth 10% of grade each.

August 29: Chapter 1: Lecture 2: Units and Vectors

- **Unit:** measure of a quantity that scientists around the world can refer to.
 - Must be accessible (easy to measure) and invariable (standard, the same everywhere, and every time)
 - E.g. 1 meter (m) is a unit of length. Any other length can be expressed in terms of 1 meter. A variable length, such as the length of a person's nose, is not appropriate because it changes.
- **SI system:** international system of units.
 - aka the metric system
 - 3 basic quantities are length (meter, m), time (second, s), and mass (kilogram, kg)
 - Many other units (e.g. for speed, m/s; force kg*m/s²) can be derived from these
 - US: use other units, but this class focuses on SI system
- **Prefixes:**
 - Correspond to powers of 10
 - Each has a specific name
 - Each has a specific abbreviation
 - Scientific notation expresses big numbers using powers of 10
 - 3,580,000,000 m = 3.58×10^9 meters, or 3.58 gigameters

Prefixes for SI Units					
Symbol	Prefix	Symbol	Prefix	Symbol	Symbol
10 ²¹	yocto	10 ⁻²¹	yocto	10 ⁻²¹	yocto
10 ¹⁸	atto	10 ⁻¹⁸	atto	10 ⁻¹⁸	atto
10 ¹⁵	femto	10 ⁻¹⁵	femto	10 ⁻¹⁵	femto
10 ¹²	pico	10 ⁻¹²	pico	10 ⁻¹²	pico
10 ⁹	nano	10 ⁻⁹	nano	10 ⁻⁹	nano
10 ⁶	micro	10 ⁻⁶	micro	10 ⁻⁶	micro
10 ³	milli	10 ⁻³	milli	10 ⁻³	milli
10 ²	centi	10 ⁻²	centi	10 ⁻²	centi
10 ¹	deci	10 ⁻¹	deci	10 ⁻¹	deci
10 ⁰	1	10 ⁰	1	10 ⁰	1
10 ⁻¹	deci	10 ⁻¹	deci	10 ⁻¹	deci
10 ⁻²	centi	10 ⁻²	centi	10 ⁻²	centi
10 ⁻³	milli	10 ⁻³	milli	10 ⁻³	milli
10 ⁻⁶	micro	10 ⁻⁶	micro	10 ⁻⁶	micro
10 ⁻⁹	nano	10 ⁻⁹	nano	10 ⁻⁹	nano
10 ⁻¹²	pico	10 ⁻¹²	pico	10 ⁻¹²	pico
10 ⁻¹⁵	femto	10 ⁻¹⁵	femto	10 ⁻¹⁵	femto
10 ⁻¹⁸	atto	10 ⁻¹⁸	atto	10 ⁻¹⁸	atto
10 ⁻²¹	yocto	10 ⁻²¹	yocto	10 ⁻²¹	yocto

*The symbol for the unit of mass is kg.

- Another good one to know is angstrom (10⁻¹⁰)
- **Basic Quantities and their Dimensions**
 - Dimension denotes the physical nature of a quantity
 - Denoted with square brackets
 - Each dimension can have many actual units

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Lauren Gardner



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