

January 30, 2023
MSE 2101 topics

- Case study: the motion of planets in the solar system
 - Ptolemy's geocentric model
 - Copernicus' heliocentric model
 - Galileo's dispelling of "heavenly perfection"
 - Tycho Brahe's observations
 - Kepler's laws of planetary motion
 - Newton's law of gravity explains (nearly) everything
- 1st Kepler's law: circles? Nope, ellipses!
- 2nd Kepler's law: equal times? Equal areas!
- 3rd Kepler's law: distance from the Sun connected with period!
- Newton's law: masses and distance