**Computed Tomography:**

**Specific learning goals**

Students will be able to:

1. Describe the properties of substances that affect light penetration and characterize the rate of attenuation.
2. Compare the radiation exposure of CT and its medical consequences to normal planar x-rays and explain why this is so.
3. Represent the process of back projection with a schematic illustration and describe what the CT images represent.
4. Describe the advantage to images produced by back projection and contrast it with images produced in other ways.
5. Compare the pros and cons of short vs. long scan times.
6. Compare and contrast the energy and atomic interactions of x-ray light to lower energy light.