

BIO61 – Human Heredity
6/20/13

Student Learning Objectives

By the end of this class you should understand the following:

- The purpose of a pedigree
- How to read and interpret a pedigree chart
- How to construct a pedigree chart given sufficient information
- How to use a pedigree chart to identify the behavior of a particular allele
- How to construct a Punnett square for a particular pedigree chart crossing
- The nature of autosomal vs. sex-linked genes

Support videos:

- Khan Academy
 - <http://www.youtube.com/watch?v=D5ymMYcLtv0>

Vocabulary:

- Pedigree
- Proband
- Autosomal trait
- Sex-linked trait
- Autosomal dominant inheritance
- Autosomal recessive inheritance
- X-linked gene
 - X-linked dominant inheritance
 - X-linked recessive inheritance
- Y-linked inheritance
- Mitochondrial inheritance