

## Instructor Contact Information

Name: Dr. Travis Lund  
Email: [travis.lund@oit.edu](mailto:travis.lund@oit.edu) (or use Canvas messaging)  
Office hours: TBA (Always available by Zoom appointment!)

## Course Overview

Course title: Medical Genetics  
Course number: BIO 341  
Prerequisite(s): BIO 213 or BIO 233 or BIO 123

Course description: Principles of heredity, chromosome mechanisms, and molecular genetics applied to disease processes in humans. Review of case histories of selected inherited disorders. Discussion of genetic intervention therapies.

In this course, we will study a variety of simple and complex (multi-factorial) human genetic diseases. We will also examine areas (such as cancer) in which inheritance and the environmental factors are mixed together, as well as modern technological applications of genetics (genetic testing, gene therapy, forensic identification, etc.). As the study of human genetics has always been controversial, we will spend some time discussing ethics.

## Textbook

**Required Textbook:** Cuh97.02 3q04 G[ )JT&TQq0.00000912 0 612 792 reW\*nBT/F1 12 Tf1 0 0 1 19

## Course Content Overview

BIO 341 is organized into ten week-long content modules, with assessments (quizzes or exams) scheduled every two weeks. Below is a general overview of the course content and timeline. Specific due dates for this particular academic term are listed in the **Course**

## Course Components

During each module/week of the course, you will typically encounter the following **optional** and **required** course components. For best success in this course, it is recommended to complete most or all of them, particularly for content that you find more challenging. However, note that **some components are optional** and are simply available to you to aid in your studying as needed.

***(Optional) Warm-ups:***

## Grading Policy

**Point distribution:** Your grade in this course will be calculated as follows. (The following point distribution is subject to minor adjustments if necessary.)

Assignment Title and Description	Points
"Homework" Assignments	240
Writing Assignments (Discussion posts, etc.) Quizzes	160