Dr. Padilla, Associate Professor  
Email through blackboard email system  
Office: LSB 220; Office Hours: After class, Tues/Thurs ~10:55-12:25  
Prerequisite: Freshman Biology, concurrent enrollment or credit for one semester of organic chemistry

Blackboard Learn: Course information for lectures will be posted on blackboard. I recommend you check the blackboard website prior to the lecture, download ppt information and use as a supplement for class lectures.  
Grades: Grades are based on 3 exams (100 points each) and 1 cumulative final exam (200 points). Exam format is multiple-choice. I will provide scantrons. Come to exams with a pencil. Grades will be posted on blackboard. It takes ~1 week for grades to be graded and posted.  
Grading Scale: >450 Points = A; 400-499 = B; 350-399 = C; 300-349 = D; <299 = F
It is your responsibility to keep track of your grades.  
No makeup exams: I do not give makeup exams. However, if you have a major illness, car accident etc. you need to provide me with the necessary documents to verify such. The final exam grade can then be used as a replacement for the missed exam. You must discuss this with me by the next class period following the exam. It is not in your best interest to miss an exam since the final exam is much more difficult.  
Incomplete grade: Do not ask for an “I” grade unless you have a major life event that does not allow you to attend school. I will only give an incomplete grade under extraordinary circumstances. Please refer to the UNT policy regarding incomplete grades.  
Disabilities: If you have a qualifying disability as defined by the ODA and need special accommodations, you must provide me with the paperwork by January 29.  
Academic dishonesty will not be tolerated: Any student caught cheating in any form will be punished to the full extent of UNT regulations, including receiving a zero grade for the exam and an F for the course. Since this is a large class, there will be several versions of the exam. Do not look at your peer’s exam while taking the exam- as this is ground for a zero grade.

The key to doing well in this course:  
- Attend Class (on time).  
- Be engaged during lectures- which means listening, writing notes (do not just rely on the ppt files), asking questions during class or meeting with me after class during the office hours if something needs to be clarified.  
- Read the sections of the textbook that compliments the topics I discuss in class. The ppt lecture will contain images and figures from the textbook so it will be easy for you to determine which chapters and sections we are covering in class.  
- I will post review study questions at the end of each week. Make sure you can answer these questions accurately without the lecture notes or textbook. Use as a study guide.  
- Do not procrastinate studying. Genetics is a fairly challenging topic for many students, that has many terms that you will need to know and concepts based on experimental evidence.  
- Do not be disruptive during class- otherwise you will be asked to leave.  
- You are always welcome to meet with me during my office hours. I enjoy meeting new students and helping you one-on-one to learn the concepts you find challenging. However, it is up to you to make the initiative to learn the material.
Tentative Lecture Schedule

Exam 1 Material
Introduction to Genetics and Genetic Model Systems (Ch 1)
Mitosis and Meiosis (Ch 2)
Mendelian Genetics (Ch 3)
Extensions of Mendelian Genetics (Ch 4)
RNA interference, (to assist with concepts given in Genetics lab)
Stem Cells, (to assist with concepts given in Genetics lab)
Chromosome mapping (Ch 5)
Bacteria Genome, Microbiome

Exam 1: Tuesday February 17th

Exam 2 Material
Sex Determination (Ch 7)
Chromosome Mutations (Ch 8)
Mitochondrial Genome (Ch 9)
DNA structure (Ch 10)
Chromosome Organization (Ch 12)
DNA Replication (Ch 11)

Exam 2: Tuesday March 24th

Exam 3 Material
Genetic Code and Transcription (Ch 13)
Translation and Proteins (Ch 14)
Mutations and DNA Repair (Ch 15)
Prokaryotic Gene Expression (Ch 16)
Eukaryotic Transcription (Ch 17)
Development (Ch 18)

Exam 3: Tuesday April 21st

End of Semester Material:
Cancer and Cell cycle regulation (Ch 19)
Recombinant DNA (Ch 20)
Genomics (Ch 21)
Genetic Engineering & Ethics (Ch 22)

Cumulative Final exam: Thursday May 14th, 8:00AM-10:00AM

Few final notes: Genetics is a fascinating field that provides a foundation for the understanding, at the molecular level, all living systems. Genetics contributes to improving human health and is used to develop new technologies. Genetics impacts our lives- whether we know it or not. This class will provide you with a foundation to understand this incredible area of science. It may not always be easy- but I do hope you find some interest.

Have fun learning this semester!

March 16-22 is Spring Break