Mrs. Marando John F. Kennedy High School Bellmore, NY 11710

### **Course Description**

This course, College Genetics, is designed as a half-year science elective with the opportunity to earn college credits from St. John's University College Advantage Program. The course title is Human Biology – BIO 1050. Successful completion of the Living Environment is required as a prerequisite to take this course. Genetics is recommended for all students who are interested in pursuing a career within the biomedical sciences or other sciences. Some of the topics we will be learning about include:

Reproduction and meiosis Genetic disorders Pedigree analysis Protein synthesis Genetic technology

Mendelian genetics Inheritance patterns DNA and RNA Genetic testing and counseling

### **Course Assessment and Grading**

Final Course Grade Determination: 40.5% for each of the two quarter averages and 19% for the final exam

Points System: Quarter average is determined by dividing total points earned by total points possible

Exams	~ 40 - 80 points each
Quizzes	<ul><li>~ 10 - 30 points each</li></ul>
Homework	~ 2 - 10 points each
Classwork	<ul><li>~ 5 - 10 points each</li></ul>
Effort	~ 20 points per quarter
Special projects	varies by assignment

(approximately 30% of average) (approximately 20% of average) (approximately 15% of average) (approximately 10% of average) (approximately 10% of average) (approximately 15% of average)

# Special Assignments/Projects

- Meiosis modeling stop motion video
- Mutagens Doctor's Office Advertisement
- Genetic Disease Research Brochure
- Family Pedigree Poster, inheritance patterns
- Assisted Reproductive Technology Slides Presentation

# Suggested Materials

- Notebook or binder with loose-leaf
- Folder for handouts

- Pens and pencils
- Colored pencils

<u>Textbook</u> - Human Genetics, sixth edition, by Ricki Lewis The book may be kept at home as a study tool as well as for use for homework assignments.

# Contact Info

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College Genetics St. John's CAP - BIO 1050 Course Syllabus