**Central Gwinnett High School**

High School Course Syllabus

**Course Title** Biotechnology **Term**…Fall 2013  
Teacher Brenda Clark room #...702

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| Email Address **Teacher Web Page** | Brenda\_Clark@gwinnett.k12.ga.us |
| Teacher Support (Help sessions etc.) | Tutoring is available by appointment |

### Course Description:

Concepts for this course two-semester course include: 1. A general knowledge of the goals and functions of the biotechnology industry—“The Big Picture.” 2. Experience with the processes used in biotechnology industry, including experimental design, use of scientific equipment, data analysis and interpretation, critical thinking, and communication. 3. The development of good business practices, organizational skills, and self-reliance.\*\*For a listing of specific course related skills, please refer to the *Gwinnett County Public Schools Academic Knowledge and Skills* handbook or on the World Wide Web at www.gwinnett.k12.ga.us/

**Course Curriculum Content**

The entire list of Academic, Knowledge and Skills for each of the following curriculum strands in this course can be accessed through the district web address at www.gwinnett.k12.ga.us

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| **AKS Strands** | **Units/Topics** |
| 1. Characteristics of Science 2. Academic Knowledge | 1. What is Biotechnology? 2. Raw Materials of Biotechnology 3. Basic Skills of the Biotechnology Workplace 4. Introduction to Studying DNA 5. Introduction to Studying Proteins 6. Identifying Potential Products 7. Spectrophotometers and Assays 8. Recombinant Biotechnology Products 9. Biotechnology in Medicine |

### Instructional Materials and Supplies

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| **Published Materials** | **Instructional Supplies** |
| Pearson – Forensic Science | 1. Pocket Folder 2. ***Gridded*** Composition Book 3. #2 Pencils/Black Pens 4. Chlorox Wipes |

**Evaluation and Grading**

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| **Assignments** | **Grade Weights** | **Grading Scale** |
| Quizzes  Laboratory Reports/Classwork  Unit Tests/Projects  Final Exam | Quizzes 20%  Classroom Activities 15%  Summative Assessments 45%  Performance Final 5%  Final Exam 15% | A: 90 and above  B: 80 – 89  C: 74 – 79  D: 70 – 73 F: 69 or below |

**Other Information**

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| **Expectations for Academic Success** | **Additional Requirements/Resources** |
| 1. Review daily; use class time wisely 2. Ask questions for understanding 3. Participate constructively as a team member 4. Proof read written assignments and edit meaningfully 5. Review multiple sources of information 6. Challenge yourself to continuously improve | * Tutoring Available Upon Request * Helpful Resources * Lab Safety Procedures * Parent Center |