

**2022 Summer Institute
Special Programs for Global Engagement, Office of International Initiatives
Georgia State University**

*Biology 4905
July 4-29, 2022*

Instructor: Dr. John Houghton
Department / Office Information: 520 Petit Science Center
Contact Information:
Course Time: Monday - Friday 9:00 am - 11:20 pm & 2:00 pm - 4:20 pm
Classroom: 657 Petit Science Center
Lab Location: Room 164 Petit Science Center/ABCORE Facilities

1. COURSE DESCRIPTION

The primary objective of this course is to introduce students to the relatively high technology that is available in the ABCORE Facilities at Georgia State University. To achieve this goal, students will be given hands-on experience in performing "wet lab" experiments, purifying their RNA and DNA and then taking these samples and analyzing them on a variety of instruments. Employing a variety of standard techniques. Informational lectures will be provided, where needed, to cover the scientific background behind the techniques as well as other more advanced techniques.

2. REQUIRED MATERIALS

Students will be expected to maintain an legible and well organized notebook of their activities.

3. COURSE GRADING

Grading Policy:	Attendance	(70%)
	Notebooks	(30%)

Letter grades for this course have the following meanings:

A+	97-100	A	93-96	A-	90-92
B+	87-89	B	83-86	B-	80-82
C+	77-79	C	73-76	C-	70-72
D	60-69	F	below 60		

4. ATTENDANCE

Students will be expected to attend ALL classes at the scheduled time. Owing to the nature of the course some laboratory activities may extend beyond the assigned time. On these occasions, students who need to leave early should talk to the instructor in advance. A formal letter or document is required for any and all health- or duty- related absences. All other absences must be agreed to with the instructor in advance. Failure to attend two or more class days without this agreement will forfeit ALL points given for attendance. Project Presentation: Students will be trained how to work independently in the laboratory

This syllabus is a guide. Changes can be made by the instructor as needed.

setting, but on occasion will be assigned into groups. Each individual (groups of 2) must finish the projects assigned to them by the instructor. At the end of the Summer each student will then present the lab notebook to the faculty member for evaluation.

5. ACADEMIC HONESTY & PLAGIARISM

Unless otherwise stated, all examination answers that are submitted for evaluation are considered to be the sole property and ideas of each individual student. Any student(s) caught copying or cheating will automatically receive zero credit for that submission, and possibly be subject to further disciplinary action.

Be aware of Plagiarism. All students should be aware of the academic honesty policy (<http://deanofstudents.gsu.edu/faculty-staff-resources/academic-honesty/>).