

HCS 604F03 Section (F) Call # 14928-6 (Wooster Campus) “Molecular Methods”

Overview. This class is intended to provide students with an overview of Molecular Methods used in plant biology. Methods will be presented in a manner that allows students to extrapolate across kingdoms, and the course content will be appropriate for students working in animal and microbial systems.

Supplies. There are no textbooks for the class. Instructors will provide students with protocols and background information as appropriate. Students will purchase a bound “Composition” notebook of size 24.7 x 19 cm (9 ¾ X 7 ½ inch) or larger. Students will also purchase a three-ring binder (large diameter rings). The bound notebook will be used for record keeping and the three-ring notebook will be used for protocols and background information. By the end of the class the three-ring notebook will provide a Molecular Methods resource for each student.

Grading. Grading will be based on notebook content, interpretation and analysis of the data from experiments and exercises. Notebooks will be organized as follows:

Purpose:	A clear and concise statement of the purpose of the laboratory exercise.
Methods:	A reference to a specific protocol and description of any modifications. A description of controls and expected results for controls. Reagents with lot numbers of enzymes if appropriate. Calculations Check lists
Results:	Raw data from the experiments (cell counts, photographs, etc...)
Summary:	Interpretation and analysis. Conclusions. Summary statement (include a statement of what can be done differently).
Signature:	Sign off on your notebook and have a witness sign off.

Notebooks will be graded at the end of each section (approximately two weeks).

Teams. Students will be organized into teams for each experiment or exercise. The purpose of the teams will be to foster cooperative learning and networking amongst your cohort. You are building relationships with present and future colleagues. Each student brings his/her own strengths to a team, and you are expected to contribute. Team structure will change exercise to exercise.