

**Industrial & Environmental Biotechnology
(BIOL 521 or BIOL 631 or 484) Winter 2017**

Instructor: Dr. Andrew Wieczorek
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Location: Loyola CC-314 **Time:** Wed 13:15-16:00

Office hours: Make appointment for either before or after class

Textbook: None. Material developed from the primary literature.

Prerequisites to the course: BIOL 511 (Structural Genomics) and BIOL 512 (Functional Genomics). I will expect everyone to have a solid background in biochemistry, molecular biology and microbiology as well.

The course's purpose and philosophy: This course is designed to provide an overview of the application of cutting edge molecular biology and genomics technology to the areas of industrial and environmental biotechnology. The emphasis is on processes and products, existing and in development.

The format of the course is designed to encourage self-learning, class discussion and participation, as I believe this is the most efficient way of learning and assimilating new information.

Grading scheme: 20% - Oral Presentation (you choice of paper/topic)
30% - Term Paper #1
10% - Assignment on IP
30% - Term Paper #2
10% - Participation (this includes assignments and class participation)

Guest lectures: We will tentatively have the following guest lecturers (may change)

Dr. Justin Powlowski, Department of Chemistry and Biochemistry

M. Philip Conrad, Senior Council, Robic LLP

Topics: The list is tentative. We will try to stay on this schedule but it should not be regarded as a strict guide. If you have personal interests let me know and I will try to include them in the course.

University policy on recording of lectures: In 2015, Senate passed a motion requiring students to obtain written consent from their instructors to make audio or video recordings of lectures — on any device. Such recordings cannot be shared, reproduced or uploaded to any publicly accessible web environment. Any authorized access to these recordings, through Moodle, for example, can only be for personal use.

Enjoy!