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Get a top-level understanding of the interdisciplinary scientific foundations of biotechnology. Topics include the molecular foundations of biotechnology; molecular microbiology; receptor pharmacology; drug development processes; biotech process development and scale-up; drug approval and regulatory affairs; genomics; microarray analysis; proteomics; computational biology; molecular modeling; analytical biotechnology; bioterrorism; and biotechnology.

Get an overview of the activities and knowledge required to

Explore a survey of biochemistry, cellular and molecular biology. Topics include the structure of cells; proteins,

pricing and implementing an integrated marketing strategy; entrepreneurial leadership; innovation ecosystems and networks of innovation; hiring talent and managing incentives; financial management; and acquisition of capital.

This course consists of an off-campus internship supervised by a staff person at the internship site and overseen by a faculty advisor. The internship site must be approved by the program director, and the overall duration of student work must be no less than 150 hours (based on a 3-credit course). At the start of the internship, you and the faculty advisor will jointly develop specific learning objectives tailored to the nature of the internship. Over the course of the internship, you will be required to submit weekly reflections, and at the end of the internship, write a final paper that represents the culmination of the work performed.

This course provides the opportunity to offer boutique short-term courses on emerging phenomena, policies, processes, technologies, and techniques. The expectation is that this will be an advanced class requiring an appropriate student project and deliverable in line with the number of credits awarded for the course.

This independent study course provides you with the flexibility to learn more about a topic of interest outside of the formal course setting. The subject should be chosen in consultation with a faculty advisor who acts as your supervisor, and with the permission of the program director. You will be required to submit a course contract describing the course of study and its specific learning objectives. Course credit is determined in advance of the course, by the instructor with the approval of the program director.

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