1. Apply core scientific and business principles to distinguish the
difference between scientific and commercial success, and gain
insight into the challenge of balancing product usefulness with
positive return on investment.
2. Understand how regulation is developed and how it interacts with
business and finance to influence the formation and growth of
technology companies.
3. Understand and apply modern biotechnology methods and practice,
as well as effective written and oral scientific communication,
through hands-on participation in the laboratory.
4. Apply knowledge of seven functional specialties (regulatory affairs,
quality assurance, biomanufacturing, quality control, non-clinical
development, clinical development and project management) to the
coordinated process of product development.
5. Understand the processes, technologies, scientific principles and
major challenges of the early drug discovery process as it continues
to evolve.
6. Evaluate the potential of a product or technology based on the
organizational resources required for full commercialization.
7. Understand firm-level strategic development, and apply strategic
business principles in day-to-day operations.
8. Demonstrate an ability to identify a global problem, and how
biotechnology may offer a novel solution(s).
9. Integrate the technical, sociological and leadership skills that are
necessary to design, use and defend a global project management
plan.
10. Integrate topics in science, policy, law and business in order to lead
the development and commercialization of new and promising
technologies.
11. Recognize and apply principles of ethical and professional conduct
develop long-term networks and relationships with industry partners.
12. Understand the ethical and safety issues that help shape public
policies on biotechnology and its applications.