

# BIOT - BIOTECHNOLOGY

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## BIOT 601 Biotechnology Principles and Techniques I

**Credits 4. 0 Lecture Hours. 8 Lab Hours.** Basic theories and techniques essential to laboratory research in agricultural, environmental or medical biotechnology such as laboratory safety and records keeping, genome informatics, DNA analysis, RNA analysis, protein analysis and analysis of biological systems. **Prerequisite:** Graduate classification and approval of instructor.

## BIOT 602 Biotechnology Principles and Techniques II

**Credits 4. 0 Lecture Hours. 8 Lab Hours.** Application of basic theories and principles of biotechnology to team and individual research problems in a laboratory setting. **Prerequisites:** BIOT 601; graduate classification.

## BIOT 603 Applied Principles of Biotechnology

**Credits 4. 1 Lecture Hour. 9 Lab Hours.** Applied experience with biotechnology laboratory procedures and instrumentation in a research environment. May be repeated twice for credit. **Prerequisites:** BIOT 601; graduate classification.

## BIOT 635 Molecular Biotechnology

**Credits 3. 3 Lecture Hours.** Theory and application of molecular biotechnology; consideration of the structure and function of cellular components and methods to characterize these components with reference to examples in industry. **Prerequisite:** Approval of instructor.

## BIOT 645 Biotechnology Writing

**Credits 3. 3 Lecture Hours.** Development of biotechnology writing and editorial skills; communication of specialized information to the public and peers. **Prerequisite:** Graduate classification and approval of instructor.

## BIOT 681 Biotechnology Seminar

**Credit 1. 1 Other Hour.** Review and discussion of current topics in biotechnology industries, with focus on skills essential to success in the corporate environment such as communication, interviewing and interpersonal skills. **Prerequisite:** Graduate classification and approval of instructor.

## BIOT 684 Directed Professional Internship

**Credits 4. 4 Other Hours.** A directed internship in an organization that provides on-the-job training with professionals in organizational settings appropriate to the student's professional objectives. May be taken two times for credit. **Prerequisite:** Approval of the Chair of the Faculty of Biotechnology.

## BIOT 685 Directed Studies

**Credits 1 to 4. 1 to 4 Other Hours.** Provides customized training and experience to students in the Biotechnology Program; topics can include laboratory research, scientific literature reviews, biotechnology market surveys, and training in technology commercialization. **Prerequisite:** Approval of instructor.

## BIOT 689 Special Topics in...

**Credits 1 to 4. 1 to 4 Lecture Hours.** Selected topics in an identified area of biotechnology. May be repeated for credit. **Prerequisite:** Approval of instructor.