

# DESIGNATED EMPHASIS, BIOTECHNOLOGY (DEB)

---

## Graduate Studies

### **DEB 263 – Biotechnology Fundamentals & Application (2 units)**

*Course Description:* Fundamentals of molecular biology and chemical engineering involved in recombinant DNA technology. Topics: principles of rate processes of biological systems, optimization of bioreactors, and issues related to overexpression and production of recombinant molecules. Participation in student-directed team projects.

*Prerequisite(s):* (BIS 101 or BIS 101V); BIS 102; MIC 102; or consent of instructor; must be a graduate student in good standing.

*Learning Activities:* Lecture 2 hour(s).

*Grade Mode:* Letter.

### **DEB 282 – Biotechnology Internship (7-12 units)**

*Course Description:* Research at a biotechnology company or interdisciplinary cross-college lab for a minimum of three months as part of the Designated Emphasis in Biotechnology Program.

*Prerequisite(s):* Graduate standing and consent of instructor.

*Learning Activities:* Internship 21-36 hour(s).

*Enrollment Restriction(s):* Open only to students participating in the Designated Emphasis in Biotechnology program.

*Grade Mode:* Satisfactory/Unsatisfactory only.

### **DEB 294 – Current Progress in Biotechnology (1 unit)**

*Course Description:* Seminars presented by guest lecturers on subjects of their own research activities.

*Prerequisite(s):* Graduate standing.

*Learning Activities:* Seminar 1 hour(s).

*Repeat Credit:* May be repeated.

*Cross Listing:* ECH 294.

*Grade Mode:* Satisfactory/Unsatisfactory only.