BIOTECHNOLOGY MINOR

Required Courses
BIO/CHEM 202 Orientation to Biotechnology 2
Select from the following: 4-5
   BIO 161 Introduction to Cell and Molecular Biology
   BOT 121 General Botany
   MCRO 221 Microbiology
   MCRO 224 General Microbiology I
Select from the following: 3-5
   BIO 303 Survey of Genetics
   BIO 351 Principles of Genetics
   CHEM 373 Molecular Biology
Select from the following: 5
   CHEM 313 Survey of Biochemistry and Biotechnology
   CHEM 371 Biochemical Principles
Laboratory elective- select from the following: 3-5
   ASCI 403 Applied Biotechnology in Animal Science
   BIO/CHEM 475 Molecular Biology Laboratory
   CHEM 474 Protein Techniques Laboratory

Approved Electives
Select from the following: 6-11
   Animal Biotechnology
      ASCI 403 Applied Biotechnology in Animal Science
      ASCI 406 Applied Animal Embryology and Assisted Reproduction
      ASCI 440 Immunology and Diseases of Animals
      ASCI 503 Advanced Molecular Techniques in Animal Science
      DSCI 330 Artificial Insemination and Embryo Biotechnology
   Bioinformatics
      BIO/CHEM 441 Bioinformatics Applications
      CSC 448 Bioinformatics Algorithms
   Cell and Molecular Biology/Microbial Biotechnology
      BIO 426 Immunology
      BIO 452 Cell Biology
      BIO/CHEM 475 Molecular Biology Laboratory
      BIO 476 Gene Expression Laboratory
      CHEM 474 Protein Techniques Laboratory
      CHEM 528 Nutritional Biochemistry
      MCRO 225 General Microbiology II
      MCRO 320 Emerging Infectious Diseases
      MCRO 402 General Virology
      MCRO 433 Microbial Biotechnology
   Engineering-related Biotechnology
      BRAE 448 Bioconversion
      ENGR 581 Biochemical Engineering
   ENVE 443 Bioremediation Engineering
   Ethics
      PHIL 339 Biomedical Ethics
      or PHIL 341 Professional Ethics
      or SCM 451 Ethics in the Sciences
   Pharmaceutical Biotechnology
      CHEM 377 Chemistry of Drugs and Poisons
      CHEM 477 Biochemical Pharmacology
   Plant Biotechnology
      BOT 323 Plant Pathology

Total units 28