BIOTECHNOLOGY (BTEC)

BTEC 10210  INTRODUCTION TO BIOTECHNOLOGY  3 Credit Hours
Basic principles and applications of modern biotechnology, including
recombinant DNA technology, microbial technology, fermentation,
genetic engineering, plant and animal tissue culture and medical
biotechnology. Lecture three hours weekly.
Prerequisite: BSCI 10120.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

BTEC 40191  SEMINAR: RECENT DEVELOPMENTS IN BIOTECHNOLOGY  1 Credit Hour
Recent developments in biotechnology explored through the presentation
and discussion of research articles and reviews in the biotechnology
literature.
Prerequisite: BTEC 10210; BSCI 30140, 30171, 30156; CHEM 30284.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter

BTEC 40192  INTERNSHIP IN BIOTECHNOLOGY  2-9 Credit Hours
(Repeatable for credit) Work experience in a biotechnology laboratory.
Registration requires approval of program director and is dependent on
availability of internship sites. Written report of activities required.
Prerequisite: Biotechnology (BTEC) major.
Schedule Type: Practicum or Internship
Contact Hours: 2-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP

BTEC 40196  INDIVIDUAL INVESTIGATION IN BIOTECHNOLOGY (ELR)  2-9 Credit Hours
(Repeatable for credit) Research experience in biotechnology.
Registration requires approval of program director and research director.
Written report required.
Prerequisite: Biotechnology (BTEC) major.
Schedule Type: Individual Investigation
Contact Hours: 2-9 other
Grade Mode: Satisfactory/Unsatisfactory-IP
Attributes: Experiential Learning Requirement

BTEC 40210  CASE STUDIES IN BIOTECHNOLOGY (WIC)  3 Credit Hours
Case studies used to explore biotechnology practice and the application
of various technologies in industry and medicine. Emphasis placed on
developing problem solving, information gathering, inductive reasoning
and technical communication skills.
Prerequisite: BTEC 10210; BSCI 30140, 30171, 30156, 40158;
CHEM 30284, 40248.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

BTEC 40463  MEDICAL BIOTECHNOLOGY  3 Credit Hours
(Cross-listed with BSCI 40463, BSCI 50463 and BSCI 70463) Medical
Biotechnology provides a basic understanding of how living cells and
cellular materials can be used for medical applications, particularly in the
diagnosis and therapy of human diseases. Prerequisite: BSCI 30140
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter