

SHU CHIEN - GENE LAY DEPARTMENT OF BIOENGINEERING

BIOENGINEERING: BIOTECHNOLOGY (BTEC) TRANSFER COURSE PLAN

ACCREDITED BY ABET
ALL COURSES MUST BE TAKEN FOR A LETTER GRADE

BTEC MAJOR REQUIREMENTS

LOWER DIVISION

BENG 1

BILD 1, 3*

CHEM 6A, 6B

CHEM 6C, 7L

CHEM 41 A, B

MATH 18, 20E

MATH 20A, B, C, D

PHYS 2A, B, 2CL

PHYS 2C, MAE 8

UPPER DIVISION

BENG 100, 103B

BENG 123, 125

BENG 130, 160

BENG 161A, 161B

BENG 162

BENG 166A, 168

BENG 186A

BENG 187A

BENG 187B, C, D

BENG 188A, B

BICD 100

CENG 101A

MAE 170

TE (4 units)

TE (4 units)

TE (4 units)



required transfer screening courses



recommended transfer prep courses

FIRST YEAR (JUNIOR YEAR)

FALL

BENG 100

F,S, SU
PREREQS:
MATH 18,
MATH 20C

BENG 166A

F
PREREQS:
BILD 1, CHEM 6C or
CHEM 7L, Math 20D
and PHYS 2A,B,C

CENG 101A

F,W
PREREQS:
Grades of C- or
better in PHYS 2A,
MATH 20D, and
MATH 20E

MAE 170

F,S
PREREQS:
PHYS 2C or PHYS
4B, PHYS 2CL or
MAE 140 or MAE 40

WINTER

BENG 1

F, W

BENG 168

W
PREREQ:
BILD 1

BENG 130

W
PREREQS:
CHEM 6B; MATH
20A, 20B, 20D;
PHYS 2A, 2B, 2C

BICD 100

F,W,S
PREREQS:
BILD 1 and BILD 3 *
(Although not
required for the
BTEC major BILD 3
MUST be taken as a
prereq for BICD
100)

SPRING

BENG 187A

S

PREREQS:
BENG 112A or BENG
152 or BENG 168 or
BENG 181

BENG 103B

S

PREREQS:
CENG 101A or MAE
101A or BENG 112A

BENG 160

S

PREREQS:
BICD 100, CHEM 40B
or BENG 120,
BENG 100, MAE 170

**Technical
Elective (TE)**

SECOND YEAR (SENIOR YEAR)

FALL

BENG 187B

F

PREREQ:
BENG 187A

BENG 188A

F

PREREQ:
BENG 187A

BENG 162

F

PREREQ:
BENG 160

BENG 161A

F

PREREQS:
MATH 20D, BENG
103B

WINTER

BENG 187C

W

PREREQ:
BENG 187B

BENG 188B

W

PREREQ:
BENG 188A

BENG 123

W

PREREQS:
MATH 18, MATH 20D
BENG 120 or CHEM
40B

BENG 161B

W

PREREQS:
MATH 20D, BENG
103B, BENG 160

SPRING

BENG 187D

S

PREREQ:
BENG 187C

BENG 125

S, SU

PREREQS:
BENG 122A or BENG
123 or BENG 181

BENG 186A

S

PREREQS:
BILD 1, BENG 130,
PHYS 2A or PHYS 2AR

**Technical
Elective (TE)**

ALL PREREQUISITE COURSES IN **BOLD** ARE REQUIRED FOR THE BTEC MAJOR AND MUST BE MET. COURSES ARE ONLY AVAILABLE IN THE QUARTERS NOTED ABOVE (FALL, WINTER, SPRING, SUMMER).

PLAN ACCORDINGLY TO INCLUDE GE/COLLEGE COURSES IN ADDITION TO THESE MAJOR COURSES