

# SHU CHIEN - GENE LAY DEPARTMENT OF BIOENGINEERING BIOENGINEERING (BENG) TRANSFER COURSE PLAN

ACCREDITED BY ABET

ALL COURSES REQUIRED FOR THE MAJOR **MUST** BE TAKEN FOR A LETTER GRADE.

THIS PLAN ASSUMES THAT ALL THE REQUIRED TRANSFER SCREENING COURSES AND ALL RECOMMENDED TRANSFER PREP COURSES HAVE BEEN COMPLETED FOR THE BENG MAJOR.



## FIRST YEAR (JUNIOR YEAR)

FALL	WINTER	SPRING
<b>BENG-100</b> F,S PREREQS: MATH-018; MATH-020C	<b>BENG-001</b> F,W (2 units)	<b>BENG-187A</b> S PREREQS: BENG-112A or BENG-152 or BENG-168 or BENG-181 (1 unit)
<b>BENG-110</b> F PREREQS: MATH-020D; MATH-020E; MATH-018; PHYS-002A or PHYS-002AR; PHYS-002BL; PHYS-002C	<b>BENG-112A</b> W PREREQ: BENG-110	<b>BENG-103B</b> S PREREQS: CENG-101A or MAE-101A or BENG-112A
<b>MAE-040</b> F,W PREREQS: MATH-020D; MATH-031AH or MATH-018 or MATH-020F; PHYS-002B	<b>BENG-140A</b> W PREREQS: CHEM-006A; PHYS-002A; PHYS-002B; BILD-001 or BENG-102	<b>BENG-112B</b> S PREREQ: BENG-112A
<b>MAE-107</b> F,S PREREQS: MAE-008; MATH-018 or MATH-020F or MATH-031AH	<b>Technical Elective (TE)</b>	<b>BENG-140B</b> S PREREQS: CHEM-006A; PHYS-002A; PHYS-002B; BILD-001 or BENG-102

## SECOND YEAR (SENIOR YEAR)

FALL	WINTER	SPRING
<b>BENG-187B</b> F PREREQ: BENG-187A (1 unit)	<b>BENG-187C</b> W PREREQ: BENG-187B (1 unit)	<b>BENG-187D</b> S PREREQ: BENG-187C (1 unit)
<b>BENG-188A</b> F PREREQ: BENG-187A (3 units)	<b>BENG-188B</b> W PREREQ: BENG-188A (3 units)	<b>BENG-125</b> S PREREQS: BENG-122A or BENG-123 or BENG-181
<b>BENG-122A</b> F PREREQS: MAE-040 or ECE-035	<b>BENG-130</b> W PREREQS: CHEM-006B; MATH-020A, 020B, 020D; PHYS-002A, PHYS-002B, PHYS-002C	<b>BENG-172</b> S PREREQ: BENG-152
<b>BENG-152</b> F,S PREREQS: ECE-035 or MAE-040	<b>BENG-186B</b> W PREREQS: ECE-035 or MAE-040	<b>BENG-186A</b> S PREREQS: BILD-001; BENG-130; PHYS-002A or PHYS-002AR
<b>MAE-003</b> F,S PREREQS: PHYS-002A or PHYS-004A	<b>Technical Elective (TE)</b>	<b>MAE-150</b> F,S PREREQS: MAE-030A or MAE-130A or SE-101A or BENG-110; MAE-107 or SE-121; MAE-003 or MAE-002

ALL PREREQUISITE COURSES IN **BOLD** ARE REQUIRED FOR THE BENG MAJOR AND MUST BE MET. COURSES ARE ONLY AVAILABLE IN THE QUARTERS NOTED ABOVE (FALL, WINTER, SPRING). PLAN ACCORDINGLY TO INCLUDE GE/COLLEGE COURSES IN ADDITION TO THESE MAJOR COURSES

## BENG MAJOR REQUIREMENTS

### LOWER DIVISION

<b>BENG-001; MAE-040</b>
<b>MAE-003</b>
<b>BILD-001; CHEM-007L</b>
<b>CHEM-006A; CHEM-006B</b>
<b>MAE-008</b>
<b>MATH-018; MATH-020E</b>
<b>MATH-020A; MATH-020B</b>
<b>MATH-020C; MATH-020D</b>
<b>PHYS-002A; PHYS-002B</b>
<b>PHYS-002BL; PHYS-002CL</b>
<b>PHYS-002C</b>

### UPPER DIVISION

<b>BENG-100; BENG-103B</b>
<b>BENG-110; BENG-112A-B</b>
<b>BENG-122A; BENG-125</b>
<b>BENG-130</b>
<b>BENG-140A; BENG-140B</b>
<b>BENG-152; BENG-172</b>
<b>BENG-186A; BENG-186B</b>
<b>BENG-187A</b>
<b>BENG-187B-D</b>
<b>BENG-188A; BENG-188B</b>
<b>MAE-107</b>
<b>MAE-150</b>
<b>TE (4 UNITS)</b>
<b>TE (4 UNITS)</b>