

CBE Concentrations

Advanced Materials Concentration - see website for full description

Bioscience Elective (select minimum of 3 cr from the following)

BC411 (4), BC521/Chem521 (3), BIOM 525/MECH525 (3), CBE570 (3)

Engineering Elective (select minimum of 3 cr from the following)

BIOM574/MECH574 (3), CBE514 (3), MECH 331 (3), MECH432 (3), MECH 525/BIOM 525 (3), MECH 530 (3), MECH 531/BIOM 531 (3), MECH532/BIOM532 (3), MECH 537/BIOM 537 (3)

Technical Elective (select minimum of 6 cr from the following)

BIOM441 (3), CHEM315 (3), Chem461 (3), CHEM462 (2), MSE502A (1), MSE 502B (1), MSE 503C (1), MSE502d (1), MSE502F (1), MSE 503 (2), MSE504 (3), MSE 505 (3)

Biomanufacturing Concentration - see website for full description

Bioscience Elective (select minimum of 3 cr from the following)

MIP300 (3)

Engineering Elective (select minimum of 3 cr from the following)

BIOM422(3), CBE504/BIOM504 (3), CBE505 (1), CBE522/BIOM522 (3) CBE540/CIVE540 (3), CBE560 (3) CBE570 (3)

Technical Elective (select 6 credits from the following, or additional credits from the engineering elective list)

BC406A (2), BC406B (2), BC411 (4), BC441 (1), BC463 (3), BC465 (3), BIOM533/CIVE533 (3), GES542 (3), LIFE210 (3), MIP334 (3), MIP 450 (3)

Molecular Medicine Concentration - see website for full description

Bioscience Electives (select a minimum of 3cr from the following)

BMS300 (4), BMS450 (3), BZ 240 (3), BZ350 or LIFE201B (4), BZ360 (4), MIP 300 (3), MIP315 or MIP 555 (3),

Technical Electives (select a minimum of 6 credits from the following, or select additional credits from Bioscience Electives or Engineering Electives)

BC367 (3), CHEM 448 (3), Math 455 (3), MIP410 (2), STAT 307 (3)

Engineering Electives (select a minimum of 3 cr from the following)

BIOM350B (1), BIOM 421 (3), BIOM525/MECH525 (3), BIOM533/MECH533 (3), CBE560 (3), ECE527D/BIOM527D (1), ECE527E/BIOM527E (1)

Sustainable Engineering Concentration - see website for full description

Bioscience Electives (select minimum 3cr from the following)

LIFE320 (3), MIP432/ESS432 (3),

Engineering Electives (select a minimum of 3cr from the following)

ATS555 (3), CIVE330 (3), CIVE438 (3), CIVE442 (3), MECH403 (3), MECH436/MSE436 (3), MECH516 (3), SYSE530 (3), SYSE532/ECE532 (3)

Technical Electives (select a minimum of 6 credits from the following, or select additional credits from Bioscience Electives or Engineering Electives)

CHEM338 (3), CHEM335 (3), CHEM465 (1), CHEM55 (3), CIVE371 (3), ENGR382B (3), ERHS320 (3), ERHS410 (3), ERHS 446 (3), ERHS 448 (3), ESS311 (3), ESS312 (3), ESS330 (3), ESS440 (4), ESS501 (3), ESS524 (3), GES362 (3), GES441 (3), GES465/MSE465 (3), GES528/CIVE528 (3), GES542 (3), NR319 (4), NR323/GR323 (3), SOCR322 (3), SOCR375 (3)