

Bachelor of Science in Engineering Mechanical Concentration

Course #
Course Name
Prerequisite
Semester Taken

1st-fall
1st-spring

2nd
2nd

3rd
3rd

4th
4th

Pre-Engineering (49 cr.)

MATH 111
Calculus I (F,S)

MATH 112
Calculus II (F,S)
MATH 111

MATH 211
Calculus III (F,S)
MATH 112

MATH 261
Linear Algebra (F,S)
MATH 112

MATH 308
Diff. Equations (S)
MATH 211

PHYS 211
Gen. Physics I (S)
MATH 111

PHYS 212
Gen. Physics II (F)
PHYS 211

ENGR 101
Engr. Graphics (J)

ENGR 102
Intro. to Engr. (F)

ENGR 201
Group Orien. (S)
ENGR 102

ENGR 231
Statics (F)
PHYS 211

ENGR 242
Exp. Methods (F,S)
PHYS 211

ENGR 254
Materials Engr. (S)
MATH 211/OPI

ENGR 262
Circuits Analysis (F,S)
MATH 111

CHEM 105
Gen. Chemistry I (F)

Upper Division Engineering (14 cr.)

ENGR 288
Project I (F)
ENGR 201

ENGR 290
Engr. Economics (J)
UD Standing

ENGR 301
Seminar I (F,S)
Adm. to Major

ENGR 302
Seminar II (F,S)
ENGR 301

ENGR 366
Control Systems (F)
MATH 308

ENGR 388
Project II (S)
ENGR 288

ENGR 488
Project III (F)
ENGR 388

ENGR 489
Project IV (S)
ENGR 488

Mechanical Concentration (26 cr.)

ENGR 232
Engr. Dynamics (S)
E231/P211

ENGR 333
Mechanics of Mat. (F)
M211/E231/OPI

ENGR 371
Thermodynamics (F)
M211/P212/OPI

ENGR 372
Fluid Mechanics (S)
M211/E232

ENGR 373
Instrument. Meas. (F)
ENGR 262

ENGR 374
Heat Transfer (F)
E371,E372/M308

ENGR 381
Mechanical Design (S)
ENGR 333

ENGR 384
Manufact. Proc. (S)
E254/E333/Sr. Stat.

General Education (42 cr.)

IDFY 101
First Year Seminar

Oral Communications

IDCR 151
Created & Called

Social Sci./History

History

Literature

PHED 101
Intro. to Wellness

Physical Fitness

Philosophy and Religion

Language I

Language II

Non-West./Cross Cult.

Bible

Christian Beliefs

Ethics/W.View/Pluralism

Writing Enriched