

CLAS BACHELOR OF SCIENCE IN ENGINEERING PHYSICS BS
Mechanical Engineering (ME)

FRESHMEN YEAR

Fall Semester	Credits	Spring Semester	Credits
MATH 1131Q – Calculus I	4	MATH 1132Q – Calculus II	4
*CHEM 1127Q – Gen. Chem. I	4	CHEM 1128Q – Gen. Chem. II	4
PHYS 1501Q – Physics for Engineers I	4	PHYS 1502Q – Physics for Engineers II	4
ENGL 1010 or ENGL 1011 Acad. Writing	4	Gen Ed Content Area I-A	3
ENGR 1000 - Orientation	1	CSE 1010C – Intro To Computing	3
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SOPHOMORE YEAR

Fall Semester	Credits	Spring Semester	Credits
MATH 2110Q – Multivariable Calculus	4	MATH 2410Q – Differential Equations	3
PHYS 3101Q – Mechanics I	3	*ME 2233 – Thermodynam. Principles I	3
PHYS 2501W – Lab in Electricity	3	PHYS 2300Q – Quantum Physics	3
Gen Ed Content Area II	3	CE 3110 – Mechanics of Materials	3
CE 2110 – Applied Mechanics I	3	Gen Ed Content Area I-B	3
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JUNIOR YEAR

Fall Semester	Credits	Spring Semester	Credits
ME 3250 – Fluid Dynamics I	3	ME 2234 – Applied Thermo	3
PHYS 3201 – Elect. & Magnetism I	3	PHYS 3202Q – Elect. and Magnetism II	3
ME 3253 Linear Systems Theory	3	STAT 3345Q – Prob. Mod. For Engr.	3
MATH 3410 – Diff. Eqns. Appl.	3	Gen Ed Content Area I-D	3
Gen Ed Content Area I-C	3	**ME 3220 – Dynam. Mech. Systems	3
Gen Ed Content Area IV (if needed)	3	Gen Ed Content Area IV (if needed)	3
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SENIOR YEAR

Fall Semester	Credits	Spring Semester	Credits
ME 4972 – Senior Design I	3	ME 4973W – Senior Design 2	3
ME 3242 – Heat Transfer	3	PHYS Elective	3
ME 3227 – Machine Design	3	ME Elective	3
PHYS 3401Q – Quantum Mechanics	3	ME Elective	3
BIO 1107	4	PHYS Elective	3
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NOTES:

*CHEM 1127 (or CHEM 1124 AND 1125) is a prerequisite for ME 2233 taken spring semester of sophomore year.

**CE 2120 is a prerequisite for ME 3220.

128 total credits are required for a degree.

ME Electives: ME 3214, 3224, 3228, 3229, 3239, 3260, 3262, 3295

PHYS Electives: 2000 Level or above

Beginning Fall 2019 one “E” course required (can simultaneously fulfill a Gen Ed Content Area requirement).