

BIC – Bachelor of Science in Mechanical Engineering (BSME) Degree Planner

BIC courses are taken in sequence and are only offered in their respective sequence semesters.

Fall – 14 hrs	Spring – 16 hrs
BIC 1112: Examined Life I	BIC 1324: World Cultures II
BIC 1314: World Cultures I	CHE 1301: Chemistry I
BIC 1313: World of Rhetoric I	EGR 1302: EGR Analysis β
EGR 1101: New Student Experience	MTH 1322: Calculus II
◊ EGR 1301: Intro to EGR β	PHY 1420: Physics I
MTH 1321: Calculus I	Chapel
LF 11XX	
Chapel	
Summer I	Summer II
Foreign Language ☞	Foreign Language ☞
Fall –16 hrs	Spring - 18 hrs
BIC 2334: World Cultures III (pre-req waiver)	BIC 2344: World Cultures IV (pre-req waiver)
ELC 2320: Electrical Circuit Theory	◊ ME 2321: Dynamics
◊ ME 2320: Statics	ME 2345: Thermodynamics
MTH 2321: Calculus III	MTH 3325: Differential Equations (ODE)
PHY 1430: Physics II	STA 3381: Statistical Methods
	Economics/Technical Writing Track
Summer I	Summer II
Fall - 16 hrs	Spring - 16 hrs
BIC 2330: Social World I (pre-req waiver)	BIC 2340: Social World II (pre-req waiver)
◊ ME 3320: Strength of Materials	Me 4327: Numerical Methods
ME 3345: Advanced Thermodynamics	◊ ME 3322: Materials and Manufacturing
ME 3420: Instrumentation/Measurements	◊ ME 3122: Materials Lab
MTH 2311: Linear Algebra	ME 3321: Fluid Mechanics
	EGR 3380: EGR Design I
Summer I	Summer II
Fall – 16 hrs	Spring – 15 hrs
*BIC 3358: Biblical Heritage & Ethics	EGR 4390: EGR Design II
ME 3323: Machine Design	ELC 4335: Systems Modeling and Control
ME 4325: Dynamic Systems	ME Elective
ME 4345: Heat Transfer	ME Elective
ME Elective	Economic/Technical Writing Track

*Petition BIC 3358 for Ethics Elective

◊ - Course offered only in semester indicated

β – Must complete course with a grade of “B” or better to move into the degree-granting majors.

☞ Complete A) second-level proficiency (either through 1302 or 1412) in a Foreign or Classical language

B) second-level proficiency (1406+) in American Sign Language (minimum 3 hours)

C) 3 hours of a Culture Course included on the FLC Distribution List for ECS Programs (**BIC 4374 counts**).

Mechanical Engineering Electives: EGR 3V95, EGR 4375, BME 4370, BME 4374, ME 4320, ME 4322, ME 4324, ME 4327, ME 4330, ME 4336, ME 4344, ME 4347, ME 4382, ME 4384, MR 4385, ME 4396, ME 4V97.

Ethics Option: EGR 3305, 3315; REL 3390, 3392, 4393, 4395; BUS 3350. May petition BIC 3358.

Economics/Technical Writing Tracks: 1) EGR 4301 & ENT 4340; 2) ECO 3308 & PWR 3300; 3) EGR 4301 & PWR 3300

Revised 1/2024