

BIC – Bachelor of Science in Engineering (BSE) Degree Planner Aerospace Concentration

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

Fall – 15 hrs	Spring – 17 hrs
BIC 1112: Examined Life I	BIC 1324: World Cultures II (co-req waiver)
BIC 1314: World Cultures I	EGR 1302: EGR Analysis β
BIC 1313: World of Rhetoric I	MTH 1322: Calculus II
◊ EGR 1301: Intro to EGR β	PHY 1420: Physics I
◊EGR 1101: New Student Experience	CHE 1301: Chemistry I
MTH 1321: Calculus I	LF 11XX
LF 11xx	
Chapel	Chapel
Summer I	Summer II
Foreign Language (or later) ☯	Foreign Language (or later) ☯
Fall – 16 hrs	Spring - 16 hrs
BIC 2334: World Cultures III (pre-req waiver)	BIC 2344: World Cultures IV (pre-req waiver)
◊ME 2320: Statics	ME 2345: Thermodynamics
ELC 2320: Circuits	◊ME 2321: Dynamics
MTH 2321: Calculus III	MTH 3325: Differential Equations (ODE)
PHY 1430: Physics II	STA 3381: Statistical Methods
	ME 2170: CAD Lab
Summer I	Summer II
Fall - 17 hrs	Spring - 18 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 4346: Intro to Aero	◊ME 3322: Materials
ME 3420: I&M	ME 3321: Fluids
MTH 2311: Linear Algebra	EGR 3380: JR Design I
EGR 2108: Economics	PWR 3300: Technical Writing
Summer I	Summer II
BIC 3358: Biblical Heritage and Ethics	
Fall – 13-16 hrs	Spring – 16 hrs
ME 4325: Dynamic Systems	◊ME 4350: Flight Dynamics and Controls
ME 3323: Machine Design	◊ME 4347: Propulsion
ME 3122: Materials Lab	ME Elective
ME 4345: Heat Transfer	EGR 4390: SR Design
^Aero Elective	EGR 3305 or EGR 3315: Ethics
(BIC 3358 if not taken in the summer)	ME 3145: Thermodynamics/fluids lab

◊ - Course offered only in semester indicated

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

☯ Compete 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) **Take 3 hours of a Culture Course included on the FLC Distribution List for Engineering Programs (see catalogue)**

^ Aero electives: ME 4322, ME 4324, ME 4337, ME 4344, ME 4349, or ME 4356

Revised 5/2022

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