

Draft

BIC – Bachelor of Science in Electrical & Computer Engineering Degree Planner

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

Fall – 15 hrs	Spring – 16-17 hrs
BIC 1112: Examined Life I	BIC 1324: World Cultures II (pre-req waiver)
BIC 1314: World Cultures I	CHE 1301: Chemistry I (or CSI 1430)
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	
LF 11XX	
Chapel	Chapel
Summer I	Summer II
Foreign Language (or later) ☞	Foreign Language (or later) ☞
Fall – 18 hrs	Spring - 16 hrs
BIC 2334: World Cultures III (pre-req waiver)	BIC 2344: World Cultures IV
CSI 1430: Intro CSI and Lab (or CHE 1301)	BIC 2340: Social World II
ELC 2337: Digital Logic Design	ELC 2330: Electrical Circuit Theory
ELC 2137: Digital Logic Lab	ELC 2130: Electrical Circuit Lab
MTH 2321: Calculus III	MTH 2311: Linear Algebra
PHY 1430: Physics II	MTH 3325: Differential Equations (ODE)
Summer I	Summer II
Fall - 15 hrs	Spring - 16 hrs
BIC 2330: Social World I (pre-req waiver)	*BIC 3358: Biblical Heritage & Ethics
ELC 3336: Microprocessor Systems	ELC 3338: Computer Organization
ELC 3337: Applied Electromagnetics	ELC 43xx: Elective I
ELC 3335: Signals and Systems	ELC 3314: Electronic Design
EGR 3380: Jr. Design	ELC 3114: Electronic Design Lab
Math Elective +	MTH Elective
Summer I	Summer II
May take BIC 3358 and adjust SP SR schedule	
Fall – 16 hrs	Spring – 15 hrs
ELC 4438: Embedded Systems	ELC 43xx: Elective IV
ELC 43xx: Elective II	ELC 4332: Controls
ELC 43xx: Elective III	ELC 4351: Digital Signal Processing
STA 3381: Statistical Methods	EGR 4390: Sr. Design
Economics/Technical Writing Track	Economic/Technical Writing Track

◊ - 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 (BIC 4374 counts).

◊ One from MTH 3324, 3326, 3370, 4322, 4324, 4329; STA 4374; ME 4327

*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