

Degree of Bachelor of Science in Bioengineering (Medical Device Track)

FRESHMAN

FALL	WINTER	SPRING
MATH 11 – CALC I	MATH 12 – CALC II	MATH 13 – CALC III
CHEM 11– Chem I L/L (5)	PHYS 31 – Phys I	PHYS 32 – Phys II L/L (5)
ENGR 1 – Intro Engr. (1)		BIOE 10 - Intro BioEng.
CORE (Rel. 1)	C& I 1	C& I 2
CTW 1	CTW 2	

SOPHOMORE

FALL	WINTER	SPRING
MATH 14 – CALC IV	CHEM 12 - Chem II L/L (5)	CHEM 13 -Chem III L/L (5)
PHYS 33 –Phys III L/L (5)	AMTH 106 – Diff. Equation	ELEN 21 –Logic Design (5)
BIOL 21 – Intro Physiology	COEN 44 or 45 - Program. (5)	MECH 15 -Intro Material (5)
CORE (Soc. Sci.)	CORE (Ethics)	CORE (Diversity)

JUNIOR

FALL	WINTER	SPRING
CHEM 31 – Org Chem I (5)	CHEM 32 –Org Chem II (5)	BIOE 154 - Intro Biomech.
ELEN 50 – Circuits I (5)	BIOE 162 – BioSignals (5)	AMTH 108 - Prob. & Stats.
BIOL 24 – Cell & Mol Bio.	BIOL 25 -Cell &Mol Bio L (5)	TE**
CORE (Rel. 2)	CORE (C& I 3)	CORE (Rel. 3)
*BioEng Seminar (1)		

SENIOR

FALL	WINTER	SPRING
BIOE 161- BioInstrument. (5)	BIOE 155 -Biol Trans. Phenom	TE **
BIOE 194 - Senior Design	BIOE 195 - Senior Design	BIOE 196 - Senior Design
TE**	BIOL 124 –Human Physiol (5)	TE**
ENGL 181	TE**	ENGL 182

*Recommended. Additionally a minimum of 15 units of Technical Electives (TEs) are needed.

**Recommended TEs: BIOE 107, BIOE 156, BIOL 104, BIOL 174, AMTH 118, ELEN 104, MECH 151.

Degree of Bachelor of Science in Bioengineering (Bimolecular /Pre-med Track)

FRESHMAN

FALL	WINTER	SPRING
MATH 11 – CALC I	MATH 12 – CALC II	MATH 13 – CALC III
CHEM 11– Chem I L/L (5)	CHEM 12 - Chem II L/L (5)	CHEM 13 - Chem III L/L (5)
BIOL 21 – Intro Physiology		BIOE 10 - Intro BioEng.
ENGR 1 – Intro Engr. (1)	C&I 1	C&I 2
CTW 1	CTW 2	

SOPHOMORE

FALL	WINTER	SPRING
MATH 14 – CALC IV	PHYS 31 – Phys I	PHYS 32 – Phys II L/L (5)
CHEM 31 – Org Chem I (5)	CHEM 32 –Org Chem II (5)	MECH 15 – Intro Materials (5)
BIOL 24 – Cell & Mol Bio.	BIOL 25 – Cell &Mol Bio (5)	ELEN 21 – Logic Design (5)
CORE (Rel. 1)	CORE (Soc. Sci.)	CORE (Ethics)

JUNIOR

FALL	WINTER	SPRING
PHYS 33 –Phys III L/L (5)	BIOL 174 – Cell Biology (5)	BIOE 154 -Intro Biomech.
AMTH 106 – Diff. Equation	COEN 44 or 45 - Program. (5)	AMTH 108 - Prob. & Stats.
TE **	ELEN 50 – Circuits I (5)	BIOE 161- BioInstrument (5)
CORE (Rel. 2)	CORE (Diversity)	CORE (C&I 3)
* BioEng Seminar (1)		

SENIOR

FALL	WINTER	SPRING
BIOE 194 - Senior Design	BIOE 155 - Biol Trans Phenom	BIOE 196 - Senior Design
CORE (Rel. 3) BIOL 171	BIOE 195 - Senior Design	BIOE 162 – Biosignals (5)
TE**	TE**	TE **
ENGL 181		ENGL 182

* Recommended. Additionally a minimum of 15 units of Technical Electives (TEs) are needed.

**Recommended TEs: BIOL 175, BIOL 176 or 177, and BIOL 178 for bimolecular track; BIOL 122 or 124, CHEM 33 and CHEM 141 for pre-med.