

# Biomedical Engineering Graduate Courses by Semester

**Notes:** All scheduled course offerings are subject to change due to instructor availability and other factors.

## Sample 2-Year Course Plans for different concentrations

**Key:** Darker colors represent the semester the select/representative course can be taken. Lighter colors represent other semesters the same course is offered. Sample course plans incorporate the semesters the courses have been offered in prior years.

Description	Course	Type	Year 1 (2024-25)			Year 2 (2024-25)		
			Fall	Spr	Sum	Fall	Spr	Sum
<b>Cell &amp; Tissue Engineering</b>								
Med. Sci. for Eng	EGR 7XXX	Fundamental						
Found. Bio. Eng.	EGR 7XXX	Fundamental						
Adv. Eng. Analysis	ME 7000	Math						
Gene & Cell Therapy	CHE 8591	Area						
Protein Eng	CHE 8592	Area						
Biomat. & Drug Deliv.	CHE 8586	Area						
Adv. Fluid Mech.	ME 8103	Breadth						
Biostat. & Exp Des	BIO 7805	Breadth						
Research		Research						
Seminar (non-credit)		Seminar						
<b>Biomechanics &amp; Biomaterials</b>								
Med. Sci. for Eng	EGR 7XXX	Fundamental						
Found. Biomed. Eng.	EGR 7XXX	Fundamental						
Adv. Eng. Analysis	ME 7000	Math						
Biomec. Hard Tissue	ME 7550	Area						
Adv. Fluid Mech.	ME 8103	Area						
Trans Phen in Bio Sys	ME 7700	Area						
Analysis of Bio. Sig.	ECE 7251	Breadth						
Control Sys. Eng.	EGR 8301	Breadth						
Research		Research						
Seminar (non-credit)		Seminar						
<b>Biomedical Signals, Sensors &amp; Imaging</b>								
Med. Sci. for Eng	EGR 7XXX	Fundamental						
Found. Biomed. Eng.	EGR 7XXX	Fundamental						
Eng. Math	ECE 8001	Math						
Analysis of Bio. Sig.	ECE 7251	Area						
Wearable Sensing	ECE 9000	Area						

Adv. Machine Learn.	ECE 8487	Area						
Stat & Exp. Des.	PSY 8100	Breadth						
Control Sys. Eng.	EGR 8301	Breadth						
Research		Research						
Seminar (non-credit)		Seminar						