

Tissue Engineering (Minor)

The minor in Tissue Engineering is intended to provide graduates with the knowledge base and practical skills that will prepare them to quickly contribute to research and manufacturing of devices designed for repair and replacement of tissues and organs. Interested students should contact the BME Student Services Coordinator for information and application materials.

Admissions and Certification of Minor

The BME staff will hold primary responsibility for administration of the Minor in Tissue Engineering. Information about the minor and application materials will be handled by the BME student services coordinator. BME faculty members will serve as advisors for the minor. To be admitted to the program, a student must have a GPA of at least 2.0. Application for admission to any University minor program is now available via MyPack Portal. Admission will be based upon the student's academic record, and in most cases no longer requires departmental review. To apply to Add a Minor, go to: https://go.ncsu.edu/minor_coda (https://go.ncsu.edu/minor_coda/).

Contact Person

Nicholas Niemuth
Engineering Building 3
Room 4409
919.515.0349
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*For scheduling questions, contact Nita Bhawe (BME Advisor):
nita_bhawe@ncsu.edu

SIS Code: 14TISSEGRM

Plan Requirements

- Complete a minimum of 18 credit hours of designated courses. All courses required for the minor must be completed with a C- or better.

Code	Title	Hours
Required Courses		12
BIT 410	Manipulation of Recombinant DNA	
BME/BEC 483	Tissue Engineering Technologies	
BME 484	Fundamentals of Tissue Engineering	
BME 495	Undergraduate Research in Biomedical Engineering	
Select one of the following:		3
CHE 315	Chemical Process Thermodynamics	
BMME 441	Thermal Physics	
MAE 201	Thermal-Fluid Sciences	
MSE 301	Introduction to Thermodynamics of Materials	
TE 303	Thermodynamics for Textile Engineers	
Select one of the following:		3
BME 315	Biotransport	
BME 345	Biomedical Solid Mechanics	
BMME 555	Biofluid Mechanics	

CE 225	Mechanics of Solids
CE 282	Hydraulics
CHE 311	Transport Processes I
MAE 214	Solid Mechanics
MAE 308	Fluid Mechanics
MSE 380	Microstructure of Organic Materials
TE 463	Polymer Engineering
TE 466	Polymeric Biomaterials Engineering
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Total Hours	18