

Department	Course	Comment
Bioengineering	BE407 Uses of Biotechnology in Pharmacology	Contact the professor for the required background before registering.
	BE408 Enzyme Kinetics & Technology	
	BE410 Introduction to Tissue Engineering	
	BE411 Biomechanics	
	BE414 Controlled Drug Delivery Technology	
	BE417 Macromolecular Dynamics from Structure to Function	
	BE585 Machine Learning for Computational. Biochemistry	
Chemistry	CHEM352 Introduction to Environmental Chemistry	Contact the professor for the required background before registering.
	CHEM353 Introduction to Chemometry	
	CHEM447 Solar Fuels & Artificial Photosynthesis	
	CHEM481 Reaction Mechanisms in Organic Chemistry	
	CHEM495 Molecular Photonics	
	CHEM497 Introduction to Mass Spectrometry	

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Chemical Engineering	CHE372 Physical Aspects of Biological Systems	Contact the professor for the required background before registering. Students should cc Dr. Dildare Basalp on emails to the professors.
	CHE455 Process Design for Biotechnology	
	CHE462 Enzyme Technology	
	CHE464 Separation and Purification Processes for Biochemical Products	
Computer Engineering	CENG463 Introduction to Machine Learning	Contact the professor for the required background before registering.
	CENG464 Introduction to Text Mining	
	CENG482 Evolutionary Computation	
Electronic Engineering	EE401 Neural Networks	Contact the professor for the required mathematics background before registering.
	EE402 Introduction To Natural Language Processing	Contact the professor for the required background before registering. EE401 is recommended for the background.
	EE430 Introduction to Systems Biology	Contact the professor for the required background before registering.
Mathematics	MATH255 Differential Equations	Contact the professor for the required background before registering.
	MATH261 Linear Algebra I	
	MATH262 Linear Algebra II	
	MATH265 Basic Linear Algebra	
	MATH355 Partial Differential Equations	

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Food Engineering	FE312 Introduction to Industrial Microbiology	Contact the professor for the required background before registering.
	FE314 Food Enzymes	
	FE318 Introduction to Food Biotechnology	
	FE402 Nutrition in Health and Diseases	
	FE410 Introduction to Nutrigenomics and Nutrigenetics	
	FE418 Introduction To R Programming	
Photonics	PHOT201 Fundamentals of Optics & Photonics I	Contact the professor for the required background before registering.
	PHOT202 Fundamentals of Optics & Photonics II	
	PHOT412 Introduction to Biophotonics	Contact the professor for the required background before registering. PHOT201 and PHOT202 are recommended.