



BIOM 476 <sup>1</sup>	Biomedical Clinical Practicum <small>(1-3 cr; industry sponsor)</small>	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BIOM 495 <sup>1</sup>	BME Independent Study (1 - 6 cr; faculty sponsor)	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
BIOM 504	Fundamentals of Biochemical Engineering		x					x								x	
BIOM 518	Biophotonics											x					
BIOM 522	Bioseparation Processes															x	x
BIOM 525	Cell and Tissue Engineering		x	x												x	x
BIOM 526	Biological Physics											x					
BIOM 527 (A-F)	Biosensors											x					
BIOM 531	Materials Engineering			x												x	x
BIOM 533	Biomolecular Tools for Engineers			x						x			x		x	x	
BIOM 537	Biomedical Signal Processing											x					
BIOM 570	Bioengineering			x						x		x	x		x	x	
BIOM 573	Structure and Function of Biomaterials			x									x		x	x	
BIOM 574	Bio-Inspired Surfaces			x									x		x	x	
BIOM 576	Quantitative Systems Physiology	x	x														
BIOM 578	Musculoskeletal Biosolid Mechanics	x			x												
BIOM 579	Cardiovascular Biomechanics			x		x											
BIOM 572	Regenerative Bioengineering with Stem Cells	x															x
BMS 301	Human Gross Anatomy	x															
BMS 302	Laboratory in Principles of Physiology	x															
BMS 310	Anatomy for the Health Professions (online)	x															
BMS 320	Virtual Laboratory in Physiology (online)	x															
BMS 325	Cellular Neurobiology		x							x						x	
BMS 345	Functional Neuroanatomy									x						x	
BMS 405	Nerve and Muscle-Toxins, Trauma, and Disease									x						x	

BMS 409	Human and Animal Reproductive Biology	x	x							x								
BMS 420	Cardiopulmonary Physiology	x				x				x								
BMS 430	Endocrinology	x								x					x			
BMS 450	Pharmacology	x								x					x			
BMS 500/NB 501	Mammalian Physiology I	x				x				x				x				
BMS 501	Mammalian Physiology II	x								x								
BMS/NB 503	Developmental Neurobiology		x								x			x				
BMS/NB 505	Neuronal Circuits, Systems and Behavior		x											x	x			
BZ 310	Cell Biology		x															
BZ 311	Developmental Biology		x															
BZ 350	Molecular and General Genetics		x								x							
BZ 476*/BZ 576	Genetics of Model Organisms		x								x							
CBE 330	Process Simulation								x								x	
CBE 505	Biochemical Engineering Lab		x						x							x		
CBE 570	Biomolecular Engineering/Synthetic Biology		x						x									
CHEM 334	Quantitative Analysis Laboratory								x									
CHEM 335	Intro to Analytical Chemistry								x									
CHEM 343	Modern Organic Chemistry II								x									
CHEM 344	Modern Organic Chemistry II Lab								x									
CHEM 346	Organic Chemistry II								x									
CHEM 433**	Clinical Chemistry								x									x
CHEM 539 A-C	Principles of NMR and MRI								x					x				
CM 501	Advanced Cell Biology		x															
CM/NB 502	Techniques in Molec/Cellular Bio		x															
ECE/MECH 569*	Micro-Electro-Mechanical Devices													x	x			
ENGR 533	Spaceflight & Bo																	
ERHS 450	Introduction to Radiation Biology		x								x			x				

ERHS 502	Fundamentals of Toxicology		x				x		x					x		
ERHS 510/VS 510	Cancer Biology		x						x			?				
ERHS 540	Principles of Ergonomics				x				x							
FSHN 470	Integrated Nutrition/Metab'sm		x						x							
HES 307	Biomech Princ/Human Mov'mt				x											
HES 319	Neuromuscular Aspects of Human Movement	x			x									x		
HES 403	Physiology of Exercise	x														
HES 420	Electrocardiography and Exercise Management	x				x			x		x	x		x		
HES 476	Exercise and Chronic Disease	x			x				x							
MATH 455**	Math in Biology and Medicine		x													
MECH 543**	Biofluid Mechanics					x										
MIP 300	General Microbiology		x													
MIP 302	General Microbiology Lab		x													
MIP 342	Immunology	x							x							
MIP 343	Immunology Lab	x							x							
MIP 351	Medical Bacteriology								x							
MIP 352	Medical Bacteriology La								x							
MIP 420	Medical/Molecular Virology		x						x							
MIP 436*	Industrial Microbiology		x						x					x		
MIP 443	Microbial Physiology	x							x					x		
MIP 450	Microbial Genetics	x							x	x						
MIP/BSPM 576	Bioinformatics							x			x					
NB 500/BMS 502	Readings/Cellular Neurobio								x				x	x		

- Classes otherwise required for the degree are not allowed as TEs
- Course availability changes frequently; check w/depts for current offerings.
- Courses cross-listed with BIOM/OTHER MAJOR must be taken as BIOM 5xx to count as BME TE
- Max of 3 cr BIOM 486 and/or BIOM 495 may count as BME TE.

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**How to REQUEST COURSE OVERRIDES (if courses are 500-level *and/or* if you don't have prereqs for course you want to take)**

BIOM and MECH 500-level courses need overrides because you are not at the graduate level; email [Sara.Neys@colostate.edu](mailto:Sara.Neys@colostate.edu) to get a CLASS STANDING override.

For **ANY course** (Graduate- or Undergraduate-level) for which you don't meet prerequisites, email the prof, explain why you think you'll be successful and forward approval/permissions to contact below.

- ◆ OVERRIDES For 500-level BIOM or MECH courses, forward request to to [Sara.Neys@colostate.edu](mailto:Sara.Neys@colostate.edu) to request override (w/prof permission if you don't have 3.0+ GPA or prereqs)
- ◆ OVERRIDES For 500-level CBE courses, forward prof permission permission to [Claire.Lavelle@colostate.edu](mailto:Claire.Lavelle@colostate.edu) for override.
- ◆ OVERRIDES For 500-level ECE courses forward prof permission to [Courtney.Johnsrud@colostate.edu](mailto:Courtney.Johnsrud@colostate.edu)
- ◆ OVERRIDES for ALL other courses - contact professor/department teaching the course. They will enter override into the system if your request is approved.