BIOMEDICAL ENGINEERING: RESEARCH, MS

REQUIREMENTS

MINIMUM GRADUATE SCHOOL REQUIREMENTS

Review the Graduate School minimum academic progress and degree requirements (http://guide.wisc.edu/graduate/ #policiesandrequirementstext), in addition to the program requirements listed below.

NAMED OPTION REQUIREMENTS

MODE OF INSTRUCTION

Face to Face	Evening/ Weekend	Online	Hybrid	Accelerated
Yes	No	No	No	No

Mode of Instruction Definitions

Accelerated: Accelerated programs are offered at a fast pace that condenses the time to completion. Students typically take enough credits aimed at completing the program in a year or two.

Evening/Weekend: Courses meet on the UW–Madison campus only in evenings and/or on weekends to accommodate typical business schedules. Students have the advantages of face-to-face courses with the flexibility to keep work and other life commitments.

Face-to-Face: Courses typically meet during weekdays on the UW-Madison Campus.

Hybrid: These programs combine face-to-face and online learning formats. Contact the program for more specific information.

Online: These programs are offered 100% online. Some programs may require an on-campus orientation or residency experience, but the courses will be facilitated in an online format.

CURRICULAR REQUIREMENTS

Requirement	t Detail		
Minimum Credit Requirement	30 credits		
Minimum Residence Credit Requirement	16 credits		
Minimum Graduate Coursework Requirement	15 credits must be graduate-level coursework. Refer to the Graduate School: Minimum Graduate Coursework (50%) Requirement policy: https://policy.wisc.edu/library/ UW-1244 (https://policy.wisc.edu/library/UW-1244/).		

	Overall	3.00 GPA required.
	Graduate	Refer to the Graduate School: Grade Point Average
	GPA	(GPA) Requirement policy: https://policy.wisc.edu/library/
	Requirement	UW-1203 (https://policy.wisc.edu/library/UW-1203/).
	Other Grade Requirements	n/a
	Assessments and Examinations	There are no degree-specific assessments and examinations outside of those given in individual courses.
	Language Requirements	n/a

REQUIRED COURSES

Specific course selection is very flexible and draws upon a variety of courses. The required coursework is designed to complement each student's interests and background in biomedical engineering.

C	ode	Title	Credits	
Re	Research (such as B M E 790)			
C	Coursework			
	Two semesters of E Engineering			
	At least 12 credits of numbered 400 or a			
	At least 15 credits, of specialization ¹			
		^f bioscience from the following list (or burse with advisor approval):		
	ANAT&PHY 335	Physiology		
	ANAT&PHY 435	Fundamentals of Human Physiology		
	BIOCHEM 501	Introduction to Biochemistry		
	CRB 640	Fundamentals of Stem Cell and Regenerative Biology		
	CRB 650	Molecular and Cellular Organogenesis		
	CRB/B M E 670	Biology of Heart Disease and Regeneration		
	NTP/ NEURODPT 610	Cellular and Molecular Neuroscience		
	NTP 735	Neurobiology of Disease		
	ZOOLOGY/ PSYCH 523	Neurobiology		
	BIOCHEM/ GENETICS/ MICROBIO 612	Prokaryotic Molecular Biology		
	BIOCHEM/ GENETICS/ MD GENET 620	Eukaryotic Molecular Biology		
	ONCOLOGY 401	Introduction to Experimental Oncology		
	M M & I/PATH- BIO 528	Immunology		
	PATH 750	Cellular and Molecular Biology/ Pathology		
	ZOOLOGY 625	Development of the Nervous System		

ZOOLOGY 570	Cell Biology	
Total Credits		30

¹ Areas of specialization are defined by the student and faculty advisor in relation to each student's research. Please keep written communication (emails are acceptable) of approvals from your faculty advisor.