Course Requirement Checklist
MS in Biomedical Sciences

Baylor College of Medicine

GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

Students Starting Academic Year: 2026-2027

Didactic Course Requirements (13 credits):				
	GS-BS-4201	Introduction to Biostatistics	2	
	GS-BS-4301	Molecular Cell Biology	3	
	GS-BS-4302	Principles of Genetics	3	
	GS-BS-4501	Molecular Methods	5	
Elective Didactic Course(s) (2 credits)**:**				
Non-Didactic Course Requirements (16 credits):				
	GS-BS-4100	Student Research Seminar	1	
	GS-BS-4101	Critical Thinking & Scientific Literature Analysis 1	1	
	GS-BS-4102	Critical Thinking & Scientific Literature Analysis 2	1	
	GS-BS-4103	Rigor & Reproducibility in Biomedical Research	1	
	GS-BS-4104	Powerful Presentation Skills	1	
	GS-BS-4105	Advanced Technology Laboratory Skills Development	3	*(1 cr., take 3 times)*
	GS-BS-4202	Thesis Writing	2	
	GS-BS-4300	Thesis Research Preparation	3	
	GS-GS-5105	Scientific Writing	1	
	GS-GS-5107	Leadership Skills	1	
	GS-GS-5113	Designing & Managing Successful Scientific Projects	1	
Ethics in the Conduct of Research Courses (3 credits):				
	GS-BS-4111	Ethics in the Conduct of Research 1	1	
	GS-BS-4112	Ethics in the Conduct of Research 2	1	
	GS-BS-4113	Ethics in the Conduct of Research 3	1	
Research Hours (variable):				
	GS-BS-4050	Thesis Research	Var.	

Graduate Degree Plan
MS in Biomedical Sciences

Baylor College of Medicine

GRADUATE SCHOOL OF BIOMEDICAL SCIENCES

Students Starting Academic Year: 2026-2027

General Degree Requirements:

- Completion of at least 90 term hours
- At least 12 of those term hours must be in Didactic courses
- Students must maintain satisfactory academic progress as detailed in the Student Handbook

Year One Requirements:

Term 1:	GS-BS-4101	Critical Reading & Scientific Literature Analysis 1	1	
	GS-BS-4111	Ethics in the Conduct of Research 1	1	
	GS-BS-4301	Molecular Cell Biology	3 (didactic)	
	GS-BS-4300	Thesis Research Preparation	1½ *(two-term course)*	
	GS-BS-4501	Molecular Methods	2½ (didactic) *(two-term course)*	Total to Date
		Total:	9	9
Term 2:	GS-BS-4103	Rigor & Reproducibility	1	
	GS-BS-4112	Ethics in the Conduct of Research 2	1	
	GS-BS-4302	Principles of Genetics	3 (didactic)	
	GS-BS-4300	Thesis Research Preparation	1½ *(two-term course)*	
	GS-BS-4501	Molecular Methods	2½ (didactic) *(two-term course)*	Total to Date
		Total:	9	18

Elective Course Requirement:
Students will enroll in a 2-credit didactic elective, or two 1-credit electives, no earlier than the third term of their first year.

Advanced Laboratory Skills Development Requirement:
Students are required to enroll in at least 3 credits of GS-BS-4105 Advanced Technology Laboratory Skills Development, beginning in the third term of their first year.

Term 3:	GS-BS-4113	Ethical Conduct of Research 3	1	
	GS-GS-5105	Scientific Writing	1	
	GS-BS-4201	Introduction to Biostatistics	2 (Didactic)	
	GS-BS-4050	Thesis Research	5	
		option: [Adv. Laboratory Skills/Elective Course]		Total to Date
		Total:	9	27
Term 4:	GS-BS-4102	Critical Reading & Scientific Literature Analysis 2	1	
	GS-BS-4106	Powerful Presentation Skills	1	
	GS-GS-5107	Leadership Skills	1	
	GS-BS-4050	Thesis Research	6	
		option: [Adv. Laboratory Skills/Elective Course]		Total to Date
		Total	9	36
Term 5:	GS-BS-4050	Thesis Research	9	Total to Date:
		option: [Adv. Laboratory Skills/Elective Course]		
		Total:	9	45

Year Two Requirements:

Term 1:	GS-BS-4050	Thesis Research	9	
		option: [Adv. Laboratory Skills/Elective Course]		Total to Date
		Total:	9	54
Term 2:	GS-BS-4100	Student Research Seminar	1	
	GS-GS-5113	Designing & Managing Successful Scientific Projects	1	
	GS-BS-4050	Thesis Research	7	
		option: [Adv. Laboratory Skills/Elective Course]		Total to Date
		Total:	9	63
Term 3:	GS-BS-4202	Thesis Writing	1 *(two-term course)*	
	GS-BS-4050	Thesis Research	8	
		option: [Adv. Laboratory Skills/Elective Course]		Total to Date
		Total:	9	72
Term 4:	GS-BS-4202	Thesis Writing	1 *(two-term course)*	
	GS-BS-4050	Thesis Research	8	
		option: [Adv. Laboratory Skills/Elective Course]		Total to Date
		Total:	9	81
Term 5:	GS-BS-4050	Thesis Research	9	Total to Date
		option: [Adv. Laboratory Skills/Elective Course]		
		Total:	9	90

MS in Biomedical Sciences program courses:

GS-BS-4050	Thesis Research	GS-BS-4111	Ethics in the Conduct of Research 1
GS-BS-4100	Student Research Seminar	GS-BS-4112	Ethics in the Conduct of Research 2
GS-BS-4101	Critical Reading & Scientific Literature Analysis 1	GS-BS-4113	Ethics in the Conduct of Research 3
		GS-BS-4201	Introduction to Biostatistics
GS-BS-4102	Critical Reading & Scientific Literature Analysis 2	GS-BS-4202	Thesis Writing
		GS-BS-4300	Thesis Research Preparation
GS-BS-4103	Rigor & Reproducibility in Biomedical Research	GS-BS-4301	Molecular Cell Biology
		GS-BS-4302	Principles of Genetics
GS-BS-4104	Powerful Presentation Skills	GS-BS-4501	Molecular Methods
GS-BS-4105	Advanced Technology Laboratory Skills		