



TEXAS TECH UNIVERSITY HEALTH SCIENCES CENTER™

Graduate School of Biomedical Sciences

Biomedical Sciences Ph.D. Undeclared Student Information

Students in the Biomedical Sciences Ph.D. program enter as undeclared, complete the core curriculum, and rotate in faculty labs prior selecting a mentor and concentration. This document is intended to provide information for new students up to the time of mentor/concentration selection.

At the earliest possible date, whether that be before or after New Student Orientation, each student will meet with the First-year Student PhD Advisor to discuss Year 1 course selection, lab rotations, GSBS policy for selecting a concentration, and other academic issues.

During the first Fall semester, all students complete the core curriculum. One of the core curriculum courses is GSBS 5275 Introduction to Biomedical Research. During the first 4 weeks of the course, advisors will present concentration specific information and discuss research opportunities within each concentration. After the initial 4 weeks, students will complete two 5-week lab rotations of their choosing based on faculty availability as well as receive additional advisement regarding mentor and concentration selection. Students should refer to the course syllabus for additional information.

Students may select a mentor and concentration no earlier than the last day of the first Fall semester. If a student is still undecided, additional lab rotations may be completed during the Spring term and a mentor and concentration must be selected by the end of the Spring term.

During the first Spring term, undeclared students register for GSBS 5098 (6 hours) Techniques in Biomedical Research, advanced course work and seminar in the concentration of interest, and GSBS 5101 Responsible Conduct of Research. To assist, sample first year curriculum registration examples are attached, and students are encouraged to speak to the concentration advisor and Student Affairs Advocate for additional guidance and information.

Prior to selecting a mentor and concentration, students are encouraged to review concentration guidelines and become familiar with concentration expectations.

Helpful Links:

Application for Change in Major (Mentor/Concentration Selection)

https://student.ttuhsu.edu/biomedical-sciences/documents/forms/change_in_major_2019.pdf

Concentration Guidelines –

Biochemistry, Cellular & Molecular Biology: <https://www.ttuhsu.edu/biomedical-sciences/program/biomedical-sciences-phd/bcmb.aspx>

Immunology & Infectious Diseases: <https://www.ttuhsu.edu/biomedical-sciences/program/biomedical-sciences-phd/immunology-infectious-diseases.aspx>

Molecular Biophysics: <https://www.ttuhsu.edu/biomedical-sciences/program/biomedical-sciences-phd/molecular-biophysics.aspx>

Translational Neurosciences & Pharmacology: <https://www.ttuhsu.edu/biomedical-sciences/program/biomedical-sciences-phd/translational-neuroscience-pharmacology.aspx>

Biochemistry, Cellular & Molecular Biology Sample Curriculum Registration

Fall Term:

Course Number	Course Name	Credit Hours
GSBS 5000	Interprofessional Collaborative Practice	0
GSBS 5471	Core I: Molecules	4
GSBS 5372	Core II: Cells	3
GSBS 5373	Core III: Genes	3
GSBS 5174	Core IV: Biomedical Seminar	1
GSBS 5275	Core V: Introduction to Biomedical Research	2
		13 Hours Total

Spring Term:

Course Number	Course Name	Credit Hours
2 of the following (6 total hours):		6
GBCM 6320	Advanced Cell Biology	
GBCM 6333	Advanced Protein Biochemistry	
GBTC 5340	Biology of Cancer	
GBCM 7101	Seminar	1
GSBS 5098	Laboratory Methods/Techniques in Biomedical Research	6
GSBS 5101	Responsible Conduct of Research	1
		14 Hours Total

Summer Term:

Course Number	Course Name	Credit Hours
GSBS 5098	Laboratory Methods/Techniques in Biomedical Research	6
		6 Hours Total

Immunology & Infectious Diseases Sample Curriculum Registration

Fall Term:

Course Number	Course Name	Credit Hours
GSBS 5000	Interprofessional Collaborative Practice	0
GSBS 5471	Core I: Molecules	4
GSBS 5372	Core II: Cells	3
GSBS 5373	Core III: Genes	3
GSBS 5174	Core IV: Biomedical Seminar	1
GSBS 5275	Core V: Introduction to Biomedical Research	2
		13 Hours Total

Spring Term:

Course Number	Course Name	Credit Hours
GIID 6610	Fundamental Microbiology and Immunology	6
GIID 7101	Seminar	1
GSBS 5098	Techniques in Biomedical Research	6
GSBS 5101	Responsible Conduct of Research	1
		14 Hours Total

Summer Term:

Course Number	Course Name	Credit Hours
GIID 5350	Fundamental of Oral and Written Presentations	3
GSBS 5098	Techniques in Biomedical Research	6
		9 Hours Total

Molecular Biophysics Sample Curriculum Registration

Fall Term:

Course Number	Course Name	Credit Hours
GSBS 5000	Interprofessional Collaborative Practice	0
GSBS 5471	Core I: Molecules	4
GSBS 5372	Core II: Cells	3
GSBS 5373	Core III: Genes	3
GSBS 5174	Core IV: Biomedical Seminar	1
GSBS 5275	Core V: Introduction to Biomedical Research	2
		13 Hours Total

Spring Term:

Course Number	Course Name	Credit Hours
GMBP 5220	Experiments in Molecular Cell Physiology	2
GMBP 5320	Molecular Cell Physiology	3
GMBP 7101	Seminar	1
GMBP 7202	Readings in Molecular Biophysics	1
GSBS 5098	Techniques in Biomedical Research	6
GSBS 5101	Responsible Conduct of Research	1
		14 Hours Total

Summer Term:

Course Number	Course Name	Credit Hours
GSBS 5098	Techniques in Biomedical Research	6
		6 Hours Total

Translational Neuroscience & Pharmacology Sample Curriculum Registration

Fall Term:

Course Number	Course Name	Credit Hours
GSBS 5000	Interprofessional Collaborative Practice	0
GSBS 5471	Core I: Molecules	4
GSBS 5372	Core II: Cells	3
GSBS 5373	Core III: Genes	3
GSBS 5174	Core IV: Biomedical Seminar	1
GSBS 5275	Core V: Introduction to Biomedical Research	2
		13 Hours Total

Spring Term:

Course Number	Course Name	Credit Hours
GTNP 5303	Principles of Pharmacology	3
GMBP 5302	Human Physiology	3
GTNP 7101	Seminar	1
GSBS 5098	Techniques in Biomedical Research	6
GSBS 5101	Responsible Conduct of Research	1
		14 Hours Total

Summer Term:

Course Number	Course Name	Credit Hours
GSBS 5098	Techniques in Biomedical Research	6
		6 Hours Total