SAMPLE CURRICULA

Sample curriculum for students in BS programs in Biochemistry, Biology, Biomedical Sciences, Microbiology, Neuroscience (CMN Concentration) or other cell/molecular life science oriented degree programs in which core courses in Objectives 1-3 above are completed)

Undergrad. program integrations during years 1-4 (PSM Graduate credits- max of 9 before grad. entry)

Fall Semester			*Spring Semester*		
Course #	Course Title	Credits	Course #	Course Title	Credits
CS 155	Intro. To UNIX	1	MATH 151	Math Algorithms Matlab	1
CS 156	Intro. To C Programming I	1	BC 565	Mol. Reg Cell Fn.	4
CS 157	Intro. To C Programming II	1	MGT 440	New Venture Management	3
BIOM 101	Intro. Biomedical Engin.	3			
GRAD 544	Ethical Conduct	1			
STAT 511	Des. & Data Anal for Res.	4			
Total		***11***	***Total***		***8***

Graduate Year (12 months)

Summer Session		
Course #	Course Title	Credits
NSCI 687D	Practicum in Microscopy	2
NSCI 696D	Project Proposal (Design)	3
Total		***5***

Fall Semester			*Spring Semester*		
Course #	Course Title	Credits	Course #	Course Title	Credits
GRAD 510	Fund. High Perform. Comp.	3	BUS/MKT	Electives	2-3
NSCI 693D	Seminar	1	NSCI 693D	Seminar	1
BC 665A	Adv. Top. Cell Reg.-Micro.	2	NSCI 696D	Proj Proposal (Presentation)	3
GRAD 550	STEM Communications	1	NSCI 687D	Practicum/Internship	2
NSCI 687D	Practicum/Internship	4		Electives	1-3
NSCI 677	Image Collect. & Processing	2	***Total***		***10-13***
Total		***13***		***40 grad credits required***	

Sample curriculum for students in BS program in Chemical and Biological Engineering

Undergrad. program integrations during years 1-4 (PSM Graduate credits- max of 9 before grad. entry)

Fall Semester			*Spring Semester*		
Course #	Course Title	Credits	Course #	Course Title	Credits
CS 155	Intro. To UNIX	1	MATH 151	Math Algorithms Matlab	1
CS 156	Intro. to C Programming I	1	LIFE 201	Introd. Genetics	3
CS 157	Intro. To C Programming II	1	BC 565	Mol. Reg Cell Fn.	4
LIFE 210	Introd. Cell Biol.	3	MGT 440	New Venture Management	3
GRAD544	Ethical Conduct	1			
STAT 511	Des. & Data Anal for Res.	4			
Total		***11***	***Total***		***11***

Graduate Year

Summer Session					
Course #	Course Title	Credits			
NSCI 687D	Internship in Microscopy	2			
NSCI 696D	Project Proposal Design	3			
Total		***5***			

Fall Semester			*Spring Semester*		
Course #	Course Title	Credits	Course #	Course Title	Credits
GRAD 510	Fund. High Perform. Comp.	3	BUS/MKT	Electives	2-3
NSCI 693	Seminar	1	NSCI 693	Seminar	1
BC 665A	Adv Top. Cell Reg. Micros.	2	NSCI 696D	Proj Proposal Presentation	3
GRAD 550	STEM Communications	1	NSCI 687D	Practicum/Internship	2
CM 502	Tech. Cell Mol. Biol.	2			
NSCI 687D	Practicum/Internship	4			
NSCI 677	Image Collect. & Processing	2	***Total***		***8-9***
Total		***15***		**40 Graduate Credits Required**	

Sample curriculum for students in BS program in Electrical or Mechanical Engineering Major with BS in Biomedical Engineering (5 year option).

Undergrad. program integrations during years 1-5 (PSM Graduate credits-max of 9 before grad. entry)

Fall Semester			*Spring Semester*		
Course #	Course Title	Credits	Course #	Course Title	Credits
BC 351	Principles of Biochemistry	4	LIFE 201	Introd. Genetics	3
CHEM 114	Gen Chem Lab II	1	MGT 440	New Venture Management	3
	BME Tech Elective	3		BME Tech Elective	3
Total		***8***	***Total***		***9***

Graduate Year

Summer Session		
Course #	Course Title	Credits
NSCI 687D	Practicum/Internship	2
NSCI 696D	Project Proposal Design	3
Total		***5***

Fall Semester			*Spring Semester*		
Course #	Course Title	Credits	Course #	Course Title	Credits
NSCI 693	Seminar	1	NSCI 693	Seminar	1
BC 665A	Adv Top. Cell Reg. Micros.	2	NSCI 696D	Proj Proposal Presentation	3
GRAD 550	STEM Communications	1	NSCI 687D	Practicum/Internship	3
CM 502	Tech. Cell Mol. Biol.	2	BC 565	Mol. Reg Cell Fn.	4
NSCI 687D	Practicum/Internship	3	BUS/MKT	Electives	2-3
GRAD 510	High Perf. Comp.	3	***Total***		***13-14***
GRAD 544	Ethical Conduct	1	Total of 40	Graduate credits required	
NSCI 677	Image Collect. & Processing	2			
Total		***15***			