

Spring 2012 Course List

(note: full listing of courses can be found online at the Course Directory)

Spring Course	Cross list	Title	Credits	Instructor	Time	Day	Meeting Dates	Notes
To register for a BCB course please contact Sausythy Hermreck: 966-5881; sausythy@med.unc.edu								
BCB 710		Bioinformatics Colloquium	1		4:30PM-5:30PM	M		Required for first 4 semesters for BCB program
BCB 712		Bioinformatics and Databases	1	Hemminger	11:00AM-12:15PM	TR	Feb 9-Mar 15	
BCB 713		Data Mining and Clustering	1	Wang	11:00AM-12:15PM	TR	Jan 10-Feb 7	
BCB 715		Mathematical Approaches to Modeling	1	Elston	11:00AM-12:15PM	TR	Mar 20-Apr 24	
BCB 716		Sequence Analysis	1	Vision, Wang	11:00AM-12:15PM	TR		
BCB 717		Structural Bioinformatics	1	Kuhlman	9:25AM-10:15AM	TR	Jan 10-Feb 7	
To register for a BIOC course please contact Brenda Brock: 966-4683; brenda_brock@unc.edu								
BIOC 632	BIOL 632/GNET 632/MCRO 632/PHCO 632	Advanced Molecular Biology II	3	Baldwin, Marzluff, Strahl	TBA	TBA		
BIOC 644	CBIO 644/MCRO 644/PHCO 644	Cell Structure, Function and Growth Control II	3	Staff	TBA	TBA		prerequisite, undergraduate cell biology or biochemistry or permission of instructor
BIOC 655		Case Studies in Structural Molecular Biology	3	Carter	10:00-11:00 3007 GMB	MWF		prerequisite, CHEM 430 or equivalent
BIOC 662		Macromolecular Interactions	1	Tripathy	11:00-12:00 3007 GMB	MWF		prerequisites, BIOC 650-653 or permission of the instructor
BIOC 663A		Macromolecular NMR	1	Campbell, Lee	11:00-12:00 3007 GMB	MWF		prerequisites, BIOC 650-653 or permission of the instructor
BIOC 663B		Macromolecular NMR Practice	1	TerHorst, Lee				prerequisite, BIOC 653 or permission of the course director

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BIOC 665		Advanced NMR	2	Campbell, Lee, Pielak, and Young	TBA	TBA		prerequisites, BIOC 663/CHEM 734 and associated NMR lab (BIOC 663B/CHEM 734 or permission of the course director
BIOC 666		X-Ray Crystallography of Macromolecules	1	Ke	9:00-9:50 3095 GMB	MWF		prerequisites, BIOC 650-653 or permission of the instructor
BIOC 667		Macromolecular Crystallographic Methods	2	Collins, Redinbo	10:30-12:00 Bldg B Conf Room	T TH		prerequisite, BIOC 666 or permission of instructor
BIOC 670		Structural Bioinformatics	1	Kuhlman	9:30-11:00 3007 GMB	T TH		
BIOC 673		Proteomics, Protein Identification and Characterization by Mass Spectrometry	1	Chen	TBA	TBA		prerequisites, BIOC 650-653 or one semester of physical chemistry or permission of the instructor
BIOC 674		Ion Channels	1	Meissner	Will be offered in 2012	TBA		
BIOC 700		Current Topics in RNA Structure, Function and Technology	2	Fried	TBA	TBA		instructor permission required
BIOC 703		Teaching in Biochemistry	2	Toews	TBA	TBA		instructor permission required
BIOC 704		Seminars in Biophysics	2	Lentz, staff	TBA	TBA		instructor permission required
BIOC 707		Cellular Metabolism and Human Disease	3	Toews	TBA	TBA		prerequisites, 1st year BBSP or advanced graduate students with background in basic cellular biochemistry and permission of course director

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To register for a BIOL course please contact Kenyetta Farrington: 962-3391; kfarrington@bio.unc.edu								
BIOL 522		Bacterial Genetics	3	Matthysse	9:00AM-9:50AM	MWF		
BIOL 542		Light Microscopy for the Biological Sciences	3	Bloom	3:00PM-4:15PM (Wilson 202)	TR		
BIOL 565		Conservation Biology	3	White	12:30PM-1:45PM (Fred Brooks Hall F009)	TR		
BIOL 625-001		Seminar in Genetics	2	Bautch, Peifer	TBA	TBA		
BIOL 625-002		Seminar in Genetics	2	Sekelsky/Copenhagen/Jones	TBA	TBA		
BIOL 639		Seminar in Plant Molecular and Cell Biology	3	Dangle, Jones	TBA	TBA		
BIOL 649		Seminar in Cell Biology	2	Bloom	TBA	TBA		
To register for a CBIO course please contact Janice Warrford: 962-9873; Janice_Warfford@med.unc.edu								
CBIO 644	BIOC 644/MCRO 644/PHCO 644	Cell Structure, Function and Growth Control II	3		2:00PM-3:15PM (Taylor Hall 124)	TR		prerequisite, undergraduate cell biology or biochemistry or permission of instructor
CBIO 892B		Contemporary Problems	3	Bankaitis	TBA	TBA		instructor permission required
CBIO 894		Advanced Cell Biology II	4	Deshmukh	3:00PM-5:30PM (MBRB 6201)	TR		students not currently in Cell & Developmental Biology Department should contact the course director prior to registering
To register for a CHEM course please contact Donnyell Batts: 843-7827; dlbatts@unc.edu								
CHEM 430		Introduction to Biological Chemistry	3	Sprenulli	12:30PM-1:45PM	TR		

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CHEM 432		Metabolic Chemistry and Cellular Regulatory Networks	3	Sprenulli	9:30AM-10:45AM	TR		
CHEM 730		Chemical Biology	3	Weeks	11:00AM-12:15PM	TR		strongly recommended for BBSP students interested in Biochemistry & Chemical Biology
CHEM 734		Biomolecular NMR	1-2	Pielak	11:00-11:50AM	MWF		taught first 8 weeks of the semester
CHEM 735		Macromolecular Interactions	1	Pielak	11:00-11:50AM	MWF		taught the 2nd 8 weeks of the semester; strongly recommended for BBSP students interested in Biochemistry & Chemical Biology
CHEM 736		Macromolecular Crystallographic Methods	2	Redinbo	TBA	TBA		
To register for a GNET course please contact Sausyty Hermreck: 966-5881; sausytyh@med.unc.edu								
GNET 622		Principles of Human & Mouse Genetics	4	Farber	TR 12:30PM-1:45PM; F 1:30PM-2:30PM	TR; F		
GNET 632		Advanced Molecular Biology II	3	Baldwin	MWF 9:00AM-9:50AM; W or F 2:00PM-3:00PM	MWF; W or F		
GNET 641		Introduction to Bioinformatics	4	Kelkar	10:00PM-12:00PM	MTW		
To register for a MCRO course please contact Dixie Flannery: 966-9005; dflann@med.unc.edu								
MCRO 640		Microbial Pathogenesis II	3	Heise	10:45PM-12:00PM	TR		This course has prerequisites
MCRO 710		Sem/Tut Prokaryotic Molecular Biology	var	Braunstein	12:00-2:30PM	F		This course has prerequisites; Permission required for enrollment requirements

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MCRO 712		Sem/Tutorial in Immunology	var	TBA	TBA	TBA		TBA
To register for a MEDC course please contact Amber Allen: 843-9759; amber_allen@unc.edu								
MEDC 804		Drug Discovery Targets	3	Liu	9:00AM-9:50AM (Beard 102)	MWF		
To register for a MOPH course please contact Amber Allen: 843-9759; amber_allen@unc.edu								
MOPH 850		Drug Discovery Targets	3	Smith	TBA	TBA		
DPET 855		Design and Analysis of Clinical Drug	2	Hull	TBA	TBA		course part of the MOPH course offerings
To register for a NBIO course please contact Denise Kenney: 966-1260; denise_kenney@med.unc.edu								
NBIO 723A	PHYI 723A/PHCO 723A	Cellular and Molecular Neurobiology	2	Manis, Carelli, faculty	10:00AM-12:00PM	MWF	10 sessions	
NBIO 723B	PHYI 723A/PHCO 723A	CNS: Anatomy and Function of Sensory and Motor Systems	2	Manis, Fitzpatrick, faculty	10:00AM-12:00PM	MWF	11 sessions	
NBIO 723C	PHYI 723A/PHCO 723A	CNS: Imaging and Disease	2	Manis, Boettiger, faculty	10:00AM-12:00PM	MWF	17 sessions	
NBIO 724		Dev Neurobiology	3	Anton	TBA			
NBIO 727		Translational Seminar in Cognitive and Clinical Neuroscience	2	Belger	TBA	TBA		
NBIO 800		Gene-Brain Neurodevelop Dis	2	Philpot	TBA			
NBIO 801		Clinical Syndromes/Disorders	2	Philpot	TBA			
NBIO 850	PHYI 706	Communicating Scientific Results	1	Stuart	2:00PM-3:30PM	F		

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NBIO 890		Microscopy & Imaging	3	Gukassyan	TBA			
To register for a OBIO course please contact :								
OBIO 741		Scientific Writing	3	Flood, Everett	1:00PM-2:00PM	R		Program Majors only
OBIO 762		The Molecular and Cellular Pathogenesis of Inflammatory Diseases	3	Arnold, Host-Pathogen faculty	TBA	TBA		prerequisites, Biochemistry and Immunology, instructor permissions required
OBIO 711, 713		Discussions in Oral Biology (Seminar)	1	Flood, program faculty	1:00PM-2:00PM	W		
OBIO 732		Advanced Oral Biology	3	Maixner, program faculty	8:00AM-10:00AM	M		
OBIO 771, 773		Seminars in Oral Biology	1	Flood, Oral Biology faculty	1:00PM-2:00PM	M		
To register for a PATH course please contact Dorothy Poteat: 966-4676; dorothy_poteat@med.unc.edu								
PATH 464		Light Microscopy	3	Bagnell	6:00PM-7:30PM	TR	1/10 - 4/24/2012	instructor permission required
PATH 667		Molecular and Cellular Biology of Cardiovascular Diseases	3	Willis/Homeister	1:00PM-3:00PM	TR	1/10 - 4/24/2012	graduate students
PATH 715		Molecular and Cellular Pathophysiological Basis of Disease: Systemic Pathology	3	Coleman	11:00AM-11:50AM	MWF	1/9 - 4/25/2012	departmental approval
PATH 716L		Molecular and Cellular Pathophysiological Basis of Disease Laboratory II	2	Rogers/Homeister	1:00PM-3:30PM	W	1/11 - 4/25/2012	prerequisite, PATH 715; this course can be taken concurrently with PATH 715
PATH 723		Translational Medicine	2	Willis	3:00PM-5:00PM	T	1/10 - 4/24/2012	permission of instructor

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PATH 725		Cancer Pathobiology	3	Kaufmann	10:30AM-12:00PM	TR	1/10 - 4/24/2012	permission of instructor
PATH 792		Seminar in Carcinogenesis	2	Coleman	1:00PM-3:00PM	R	1/12 - 4/19/2012	permission of instructor
To register for a PHCO course please contact Kathy Justice: 966-1153; kathy_c_justice@med.unc.edu								
PHCO 644	BIOC 644/CBIO 644/MCRO 644	Cell Structure, Function and Growth Control II	3		2:00PM-3:15PM (Taylor Hall 124)	TR		prerequisite, undergraduate cell biology or biochemistry or permission of instructor
PHCO 702		Principles of Pharmacology and Physiology	3	McCarthy	9:00AM-9:50AM	MWF		instructor permission required
PHCO 723A	NBIO 723A/PHYI 723A	Cellular and Molecular Neurobiology	2	Manis, Carelli, faculty	10:00AM-12:00PM	MWF	10 sessions	
PHCO 723B	NBIO 723A/PHYI 723A	CNS: Anatomy and Function of Sensory and Motor Systems	2	Manis, Fitzpatrick, faculty	10:00AM-12:00PM	MWF	11 sessions	
PHCO 723C	NBIO 723A/PHYI 723A	CNS: Imaging and Disease	2	Manis, Boettiger, faculty	10:00AM-12:00PM	MWF	17 sessions	
To register for a PHYI course please contact Adriana Tavernise: 966-9396; adrianat@med.unc.edu								
PHYI 644	BIOC 644/ CBIO 644/ MCRO 644/ PHCO 644	Cell Structure, Function and Growth Control II	3		TBA	TR		prerequisite, undergraduate cell biology or biochemistry or permission of instructor
PHYI 703		Experimental Physiology of Human Health & Disease	3	Goy	9:00AM-10:00AM	MWF		
PHYI 723	NBIO 723A/PHCO 723A	Cellular and Molecular Neurobiology	2	Manis, Carelli, faculty	10:00AM-12:00PM	MWF	10 sessions	

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PHYI 723	NBIO 723A/PHCO 723A	CNS: Anatomy and Function of Sensory and Motor Systems	2	Manis, Fitzpatrick, faculty	10:00AM-12:00PM	MWF	11 sessions	
PHYI 723	NBIO 723A/PHCO 723A	CNS: Imaging and Disease	2	Manis, Boettiger, faculty	10:00AM-12:00PM	MWF	17 sessions	
To register for a TOXC course please contact Julie Canefax: 962-8400; jcanefax@@med.unc.edu								
TOXC 423	CBIO 423	Developmental Toxicology		Sulik/Rogers/Hunt er	9:00am-12:00pm	Tues		
TOXC 707		Advanced Toxicology	3	Swenberg	9:00AM-9:50AM	MWF		prerequisite, PHCO 702, or permission of the course director
TOXC 722	ENVR 722	Toxicology Seminar III	1	Rusyn	4:00PM-5:00PM	M		