

FIRST YEAR CLASS SCHEDULE

DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Jan 5	8:10 8:20	PHYS/CTS	Lecture	Kutchai/Bloodgood	Introduction to Physiology/CTS course
	8:20 9:00	PHYS/CTS	Lecture	Hussaini	Autonomic nervous system: transmitters & receptors
	9:10 10:00	PHYS/CTS	Lecture	DeSimone/Taylor	Histology of heart and blood vessels
	10:10 12:00	NEUR	Lecture	Lee/Worden	Introduction/ground plan
Tue, Jan 6	8:10 9:00	GENE	Lecture	Golden	Introduction
	9:10 10:00	POM 1	Lecture	Bargmann/Gazewood	Interviewing on sensitive topics
	10:10 11:00	POM 1	Lecture	Heisterman/Crosby	Interviewing for alcohol use and alcoholism
	11:10 12:00	HUMAN	Lecture	Hobbs	Sleep I
	1:00 4:00	POM 1	Groups	Mentors	Regroup; past medical history role plays; visitors from AA
Wed, Jan 7	8:10 10:00	PHYS/CTS	Lab	CTS Staff	Histology of blood and blood vessels
	10:10 12:00	NEUR	Lecture	Liu	Development of nervous system (spina bifida)
Thu, Jan 8	8:10 10:00	PHYS/CTS	Lecture	Hussaini	Autonomic nervous system: 2 nd messengers & signal transduction
	10:10 12:00	GENE	Lecture	Stukenberg	Fundamentals of nucleic acid structure
	1:00 4:00	POM 1	Groups	Mentors	Regroup, past medical history role plays; visitors from AA
Fri, Jan 9	8:10 9:00	PHYS/CTS	Lecture	Hussaini	Autonomic control of the cardiovascular system
	9:10 10:00	PHYS/CTS	Lecture	Hussaini	Autonomic review
	10:10 11:00	NEUR	Lecture	Condron	Neurons & gila (multiple sclerosis)
	11:10 12:00	HUMAN	Lecture	Hobbs	Sleep II

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DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Jan 12	8:10 - 10:00	PHYS/CTS	Lecture	Duling	Cardiac muscle & its pumping functions
	10:10 - 12:00	NEUR	Lecture	Worden	Blood supply (stroke)
Tue, Jan 13	8:10 - 9:00	GENE	Lecture	Stukenberg	DNA organization
	9:10 - 10:00	POM 1	Lecture	Schorling	The impaired physician
	10:10 - 11:00	POM 1	Lecture	Davis	Ethics and the law
	11:10 - 12:00	HUMAN	Lecture	Hobbs	Sleep III
	1:00 - 4:00	POM 1	Groups	Mentors	Substance abuse role plays; case: impaired physician
Wed, Jan 14	8:10 - 9:00	PHYS/CTS	Lecture	Duling	Pressure & flows in the CV system – hemodynamics I
	9:10 - 10:00	PHYS/CTS	Lecture	Duling	Blood & blood vessels - hemodynamics II
	10:10 - 12:00	NEUR	Lecture	Worden	Synaptic transmission & electrochemical signaling (botulism)
	12:30 - 1:30		Med Ctr Hour	Miller/Lombardo	Is there a pink slip in your genes? Genetic discrimination in the workplace <i>Location: Jordan Hall Conference Center Auditorium</i>
Thu, Jan 15	8:10 - 9:00	PHYS	Lecture	Szabo	Cardiac electrophysiology I – cardiac ion channels
	9:10 - 10:00	PHYS	Lecture	Szabo	Cardiac electrophysiology II – cardiac ion channels
	10:10 - 12:00	GENE	Lecture	Stukenberg	DNA organization and the tools of molecular genetics
	1:00 - 4:00	POM 1	Groups	Mentors	Substance abuse role plays; case: impaired physician
Fri, Jan 16	8:10 - 9:00	PHYS/CTS	Lecture	Szabo	Cardiac electrophysiology III – the action potential
	9:10 - 10:00	PHYS/CTS	Lecture	Duling	Regulation of cardiac function
	10:10 - 11:00	NEUR	Lecture	Taylor	Somatosensory system I (misplaced localization)
	11:10 - 12:00	HUMAN	Lecture	Hobbs	Science & systems

DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Jan 19	8:10 9:00	PHYS/CTS	ClinC	Samembock	Measurement of pressures & flows in the human cardiovasc system
	9:10 10:00	PHYS/CTS	Lecture	Duling	The large vessels I – collapse & expansion of vessels
	10:10 11:00	NEUR	Lecture	Taylor	Somatosensory system II (phantom sensations)
Tue, Jan 20	8:10 9:00	GENE	Lecture	Stukenberg	Transcribing information from DNA to RNA
	9:10 10:00	POM 1	Lecture	Bargmann	Techniques of the cardiac exam
	10:10 11:00	POM 1	Lecture	Bargmann	Cardiac exam findings
	11:10 12:00	HUMAN	Lecture	Hobbs	Drug use & abuse I
	1:00 4:00	POM 1	Groups	Mentors	Groups 6-11; 19-24 Cardiac exam workshop, cardiac case Groups 1-5; 12-18 Harvey (stethophones), cardiac case
Wed, Jan 21	8:10 9:00	PHYS/CTS	ClinC	Kramer	MRI in cardiovascular disease
	9:10 10:00	PHYS/CTS	Lecture	Duling	The large vessels II – creation & modulation of the arterial pulse
	10:10 12:00	NEUR	Lecture	Taylor	Somatosensory system III (hyperalgesia)
	12:30 1:30		Med Ctr Hour	Wilson/Cohen	The adaptive unconscious: knowing how we will feel <i>Location: Jordan Hall Conference Center Auditorium</i>
Thu, Jan 22	8:10 9:00	PHYS/CTS	Lecture	Duling	Microcirculation I – microvessels, physics & control
	9:10 10:00	PHYS/CTS	Lecture	Duling	Microcirculation II – movement of water & salts from blood to tissue
	10:10 12:00	GENE	Lecture	Stukenberg	Protein synthesis: ribosome structure and function
	1:00 4:00	POM 1	Groups	Mentors	Groups 6-11; 19-24 Cardiac exam workshop, cardiac case Groups 1-5; 12-18 Harvey (stethophones), cardiac case
Fri, Jan 23	8:10 9:00	PHYS/CTS	Lecture	Duling	Control of peripheral vasculature I – intrinsic & neural control of vessels
	9:10 10:00	PHYS/CTS	Lecture	Duling	Control of peripheral vasculature II – paracrine signaling in the vessel wall
	10:10 11:00	NEUR	ClinC	Rowlingson	Pain
	11:10 12:00	HUMAN	Lecture	Hobbs	Drug use & abuse II

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DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Jan 26	8:10 9:00	PHYS/CTS	Lecture	Brady	The electrocardiogram – viewing ion channels from outside the body
	9:10 10:00	PHYS/CTS	Lecture	Duling	Coupling of the heart and great vessels
	10:10 12:00	NEUR	Lecture	Lee	Vision I (detached retina)
Tue, Jan 27	8:10 9:00	GENE	Lecture	Golden	Basic cytogenetics
	9:10 11:00	POM 1	Lecture	Mohrmann	Spirituality
	11:10 12:00	HUMAN	Lecture	Hobbs	Drug use & abuse III
	1:00 4:00	POM 1	Groups	Mentors	Groups 1-5; 12-18 Cardiac exam workshop, spirituality case Groups 6-11; 19-24 Harvey (stethophones), spirituality case
Wed, Jan 28	8:10 9:00	PHYS/CTS	Lecture	Brady	Electrocardiography I
	9:10 10:00	PHYS/CTS	Lecture	Duling	Organ circulations I – heart, muscle, skin
	10:10 10:50	NEUR	Lecture	Lee	Vision II (cortical blindness)
	11:00 12:00	NEUR	ClinC	Newman	Diseases of the visual system
	12:30 1:30		Med Ctr Hour	Schorling/Kulbok	The healthy health professional <i>Location: Jordan Hall Conference Center Auditorium</i>
Thu, Jan 29	8:10 9:00	PHYS/CTS	Lecture	Duling	Organ circulations II – brain & viscera
	9:10 10:00	PHYS/CTS	Lecture	Hammill	Neonatal circulation
	10:10 12:00	GENE	ClinC	Golden/Wilson	Clinical cytogenetics I
	1:00 4:00	POM 1	Groups	Mentors	Groups 1-5; 12-18 Cardiac exam workshop, spirituality case Groups 6-11; 19-24 Harvey (stethophones), spirituality case
Fri, Jan 30	8:10 9:00	PHYS/CTS	Lecture	Kattwinkel	Temperature regulation
	9:10 10:00	PHYS/CTS	ClinC	Mounsey	Reflexes in the human cardiovascular system
	10:10 11:00	NEUR	ClinC	Lipper	Brain imaging
	11:10 12:00	HUMAN	Lecture	Hobbs	Drugs of abuse IV

“The scientists most esteemed by their colleagues ... pass the acid test of promoting new knowledge even at the expense of losing credit for it ... Their principle aim is to discover natural law marked by elegance, the right mix of simplicity and latent power.” — Edward O. Wilson

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DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Feb 2	8:10 9:00	PHYS/CTS	Lecture	Duling	Integrated cardiovascular physiology
	9:10 10:00	PHYS/CTS	ClinC	Tribble	24 hours in the ICU – a ride on the physiological rollercoaster
	10:10 12:00	NEUR	Groups	Faculty	Lab I
Tue, Feb 3	8:10 9:00	GENE	ClinC	Golden/Wilson	Clinical cytogenetics II
	9:10 10:00	POM 1	Lecture	Peterson	Sexual history
	10:10 11:00	POM 1	Lecture	Peterson	Domestic violence
	11:10 12:00	HUMAN	Lecture	Hobbs	Pain I
	1:00 4:00	POM 1	Groups	Mentors	Sexual history role plays
Wed, Feb 4	8:10 9:00	PHYS/CTS	ClinC	Brady	Variations in cardiac rhythms
	9:10 10:00	PHYS/CTS	ClinC	TBA	Atherosclerosis, diabetes, & hypertension: don't eat so much
	10:10 12:00	NEUR	ClinC	Faculty	Small groups: clinical problems I
	12:30 1:30		Med Ctr Hour	Wilkins/Oliver/ Marshall	Race and privilege, and consequences for health <i>Location: Jordan Hall Conference Center Auditorium</i>
Thu, Feb 5	8:10 10:00	PHYS/CTS	Lab Review	CTS Staff	Review of lab on histology of blood & blood vessels
	10:10 11:00	GENE	ClinC	Golden/Wilson	Clinical correlations
	11:10 12:00	GENE	Review	Faculty	Review
	1:00 4:00	POM 1	Groups	Mentors	Sexual history role plays
Fri, Feb 6	8:10 10:00	PHYS/CTS	Discuss	Hussain/Duling	Review: Q and A on autonomic and cardiovascular physiology
	10:10 11:00	NEUR	ClinC	Faculty	MRI lab
	11:10 12:00	HUMAN	Lecture	Hobbs	Pain II

“The fellowship of those who hear the mark of pain. Who are the members of this fellowship? Those who have learned by experience what physical pain and bodily anguish mean, belong together all the world over; they are united by a secret bond. One and all, they know the horrors of suffering to which man can be exposed, and one and all they know the longing to be free from pain.” — Albert Schweitzer

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DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Feb 9	9:00 1:00	PHYS/CTS	Exam	Kutchai/Bloodgood	Physiology/CTS Exam #1
Wed, Feb 11	9:00 12:00 12:30 1:30	NEUR	Exam Med Ctr Hour	Brautigan	Exam I Scientists at medical schools: what is their research about and how does it relate to medicine? <i>Location: Jordan Hall Conference Center Auditorium</i>
Thu, Feb 12	1:00 5:00	HUMAN	Exam	Hobbs	Exam
Fri, Feb 13	1:00 5:00	GENE	Exam		Exam
Mon, Feb 16	8:10 9:00 9:10 10:00 10:10 12:00	PHYS/CTS GENE NEUR	Lecture Lecture Lecture	Castle Silverman Taylor	Histology of the urinary tract Mutations I Motor I: lower motor neurons (ALS)
Tue, Feb 17	8:10 9:00 9:10 10:00 10:10 11:00 11:10 12:00 1:00 4:00	PHYS/CTS POM 1 POM 1 HUMAN POM 1	Lecture Lecture Lecture Lecture Groups	Kutchai Gazewood Davis Hobbs Mentors	Introduction to renal physiology; clearance methods Caring for patients with chronic illness Power issues in the doctor – patient relationship Clinical neurophysiology I Groups 1-5; 12-18 Visitor w/chronic illness; chronic illness case Groups 6-11; 19-24 Eye exam workshop (fundus exam), power issues case
Wed, Feb 18	8:10 10:00 10:10 12:00 12:30 1:30	PHYS/CTS NEUR	Lab Lecture Med Ctr Hour	CTS Staff Taylor Layne/Wenger	Lab: histology of the urinary tract Motor II: upper motor neurons (rigidity syndromes) Motherhood lost – pregnancy loss in America <i>Location: Jordan Hall Conference Center Auditorium</i>
Thu, Feb 19	8:10 9:00 9:10 10:00 10:10 12:00 1:00 4:00	PHYS/CTS PHYS/CTS GENE POM 1	Lecture Lecture Lecture Groups	Kutchai Kutchai Stukenberg Mentors	Clearance methods Glomerular filtration Mutations I Groups 1-5; 12-18 Visitor w/chronic illness; chronic illness case Groups 6-11; 19-24 Eye exam workshop (fundus exam), power issues case
Fri, Feb 20	8:10 9:00 9:10 10:00 10:10 11:00 11:10 12:00	PHYS/CTS PHYS/CTS NEUR HUMAN	Lecture ClinC ClinC Lecture	Kutchai Okusa Wooten Hobbs	Glomerular filtration, renal blood flow Control of glomerular filtration Diseases of the motor unit Clinical neurophysiology II

“When you hear hoofbeats, think of horses before zebras.” — Medical maxim quoted by Harley S. Smyth

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Mon, Feb 23	8:10 - 10:00	PHYS/CTS	Lecture	Kutchai	Tubular function
	10:10 - 12:00	NEUR	Lecture	Taylor	Motor III: cerebellum (ataxia)
Tue, Feb 24	8:10 - 9:00	GENE	Lecture	Golden	Mendelian inheritance I
	9:10 - 10:00	POM 1	Lecture	Peterson/Waters	Motivating behavior change I
	10:10 - 11:00	POM 1	Lecture	Davis	Withholding/withdrawing care
	11:10 - 12:00	HUMAN	Lecture	Hobbs	Clinical neurophysiology III
	1:00 - 4:00	POM 1	Groups	Mentors	Groups 13-24 Visitor w/chronic illness; chronic illness case Groups 1-12 Eye exam workshop (fundus exam), power issues case
Wed, Feb 25	8:10 - 9:00	PHYS/CTS	Lecture	Kutchai	Body fluid compartments
	9:10 - 10:00	PHYS/CTS	Lecture	Kutchai	Control of osmolality, concentration and dilution of urine
	10:10 - 12:00	NEUR	Lecture	Lee	Basal ganglia (Parkinson's)
	12:30 - 1:30		Med Ctr Hour	Beatley	Healthy cities, healthy lives – the built environment and public health <i>Location: Jordan Hall Conference Center Auditorium</i>
Thu, Feb 26	8:10 - 9:00	PHYS/CTS	Lecture	Kutchai	Control of osmolality, concentration and dilution of urine
	9:10 - 10:00	PHYS/CTS	Lecture	Kutchai	Control of body fluid osmolality and volume
	10:10 - 12:00	GENE	Lecture	Golden	Mendelian inheritance II
	1:00 - 4:00	POM 1	Groups	Mentors	Groups 13-24 Visitor w/chronic illness; chronic illness case Groups 1-12 Eye exam workshop (fundus exam), power issues case
Fri, Feb 27	8:10 - 9:00	PHYS/CTS	Lecture	Kutchai	Control of body fluid osmolality and volume
	9:10 - 10:00	PHYS/CTS	Lecture	Kutchai	Renal regulation of potassium, calcium, phosphate, & magnesium
	10:10 - 11:00	NEUR	ClinC	Bennett	Basal ganglia disease
	11:10 - 12:00	HUMAN	Lecture	Hobbs	Stress response

DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Mar 1	8:10 9:00	PHYS/CTS	Lecture	Kutchai	Renal regulation of potassium, calcium, phosphate, & magnesium
	9:10 10:00	PHYS/CTS	Lecture	Kutchai	Renal regulation of acid-base balance
	10:10 10:50	NEUR	Lecture	Zeitlin	Huntington's disease
	11:00 12:00	NEUR	ClinC	Harrison	Patient presentation
Tue, Mar 2	8:10 9:00	GENE	Lecture	Wagstaff	Mendelian variations
	9:10 10:00	POM 1	Lecture	Peterson/Waters	Motivating behavior change II
	10:10 11:00	POM 1	Lecture	Lombarod	Ethical issues in genetic testing
	11:10 12:00	HUMAN	Lecture	Hobbs	Learning I
	1:00 4:00	POM 1	Groups	Mentors	Groups 1-5; 12-18 Hospital interviews; motivating behavior change role plays
	1:00 4:00	POM 1	Groups	Preceptors	Groups 6-11; 19-24 Observe and do interviews and some physical examination
Wed, Mar 3	8:10 9:00	PHYS/CTS	Lecture	Kutchai	Renal regulation of acid-base balance
	9:10 10:00	PHYS/CTS	ClinC	Kutchai	Review of renal physiology
	10:10 12:00	NEUR	Lecture	Corwin	Auditory system I (cochlear implant; high frequency hearing loss)
	12:30 1:30		Med Ctr Hour	Harris	Corey Harris sings the blues – good medicine <i>Location: Jordan Hall Conference Center Auditorium</i>
Thu, Mar 4	8:10 9:00	PHYS/CTS	Lecture	Bloodgood	Histology of respiratory system
	9:10 10:00	PHYS/CTS	Lecture	Kutchai	Introduction to respiration
	10:10 12:00	GENE	Lecture	Mahadaven/Golden	Clinical correlation
	1:00 4:00	POM 1	Groups	Mentors	Groups 1-5; 12-18 Hospital interviews; motivating behavior change role plays
	1:00 4:00	POM 1	Groups	Preceptors	Groups 6-11; 19-24 Observe and do interviews; some physical examination
Fri, Mar 5	8:10 9:00	PHYS/CTS	Lecture	Kutchai	Introduction to respiration
	9:10 10:00	PHYS/CTS	Lecture	Kutchai	Gas diffusion and exchange
	10:10 11:00	NEUR	Lecture/ClinC	Mason	Auditory system II and auditory system clinical correlation
	11:10 12:00	HUMAN	Lecture	Hobbs	Learning II

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Mon, Mar 8	8:10 - 10:00	PHYS/CTS	Lab	CTS Staff	Histology of respiratory system
	10:10 - 12:00	NEUR POM 1	Lecture	Corwin SP Staff	Vestibular system (patient video; nystagmus goggles) Videotaped SP interview, individual appointments
Tue, Mar 9	8:10 - 9:00	GENE	Lecture	Golden	The X and Y chromosomes
	9:10 - 10:00	POM 1	Lecture	Gazewood	Brief interventions: smoking cessation
	10:10 - 11:00	POM 1	ClinC	Gazewood/Patient	Patient w/chronic pulmonary disease – COPD
	11:10 - 12:00	HUMAN	Lecture	Hobbs	Communication I
	1:00 - 4:00	POM 1	Groups	Mentors	Groups 6-11; 19-24 Hospital interviews; motivating behavior change role plays
1:00 - 4:00	POM 1 POM 1	Groups	Preceptors SP Staff	Groups 1-5; 12-18 Observe and do interviews, some physical examinations Videotaped SP interview, individual appointments	
Wed, Mar 10	8:10 - 9:00	PHYS/CTS	Lecture	Kutchai	Pulmonary blood flow
	9:10 - 10:00	PHYS/CTS	Lecture	Kutchai	O ₂ -CO ₂ transport
	10:10 - 12:00	NEUR	Lecture	Condron	Eye movements
	12:30 - 1:30		Med Ctr Hour	Kearney	Being a healer
		POM 1		SP Staff	<i>Location: Jordan Hall Conference Center Auditorium</i> Videotaped SP interview, individual appointments
Thu, Mar 11	8:10 - 9:00	PHYS/CTS	Lecture	Kutchai	O ₂ -CO ₂ transport
	9:10 - 10:00	PHYS/CTS	Lecture	Kutchai	Ventilation-perfusion relationships
	10:10 - 12:00	GENE	Lecture	Wilson	Principals of clinical genetics
	1:00 - 4:00	POM 1	Groups	Mentors	Groups 6-11; 19-24 Hospital interviews; motivating behavior change role plays
	1:00 - 4:00	POM 1 POM 1	Groups	Preceptors SP Staff	Groups 1-5; 12-18 Observe and do interviews, some physical examinations Videotaped SP interview, individual appointments
Fri, Mar 12	8:10 - 9:00	PHYS/CTS	Lecture	Kutchai	Ventilation-perfusion relationships
	9:10 - 10:00	PHYS/CTS	Lecture	Kutchai	O ₂ -CO ₂ transport
	10:10 - 11:00	NEUR	ClinC	Hashisaki	Vestibular system clinical correlation
	11:10 - 12:00	HUMAN	Lecture	Hobbs	Communication II

“We who lived in concentration camps can remember the men who walked through the huts comforting others, giving away their last piece of bread. They may have been few in number, but they offer sufficient proof that everything can be taken from a man but one thing: the last of human freedoms -- to choose one’s attitude in any given set of circumstances -- to choose one’s own way.” — Viktor Frankl

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Mon, Mar 15	8:10 10:00	PHYS/CTS	Lecture	Koenig	Control of respiration
	10:10 12:00	NEUR	ClinC	Bleck	Eye movements clinical correlation
		POM 1		SP Staff	Videotaped SP interview, individual appointments
Tue, Mar 16	8:10 9:00	GENE	Lecture	Wilson	Treatment of genetic diseases
	9:10 10:00	POM 1	Lecture	Lockman	Abnormal lung exam
	10:10 11:00	POM 1	Lecture	Students/Residents	Physician in training panel
	11:10 12:00	HUMAN	Lecture	Hobbs	Families I
	1:00 4:00	POM 1	Groups	Mentors	Female chest exam w/SP, OSCE practice
		POM 1	SP Staff	SP Staff	Videotaped SP interview, individual appointments
Wed, Mar 17	8:10 9:00	PHYS/CTS	Lecture	Kutchai	Respiratory aspects of acid-base balance
	9:10 10:00	PHYS/CTS	ClinC	Koenig	Disorders of acid-base balance
	10:10 12:00	NEUR	Lecture	Worden	Brainstem review
	12:30 1:30		Med Ctr Hour	Fletcher	Breast cancer screening: prevention is more complicated than we thought
			POM 1	SP Staff	SP Staff
Thu, Mar 18	8:10 9:00	PHYS/CTS	Lecture	Koenig	Mechanics of breathing I
	9:10 10:00	PHYS/CTS	Lecture	Koenig	Mechanics of breathing II
	10:10 12:00	GENE	Lecture	Golden	Cancer genetics
	1:00 4:00	POM 1	Groups	Mentors	Female chest exam w/SP, OSCE practice
			POM 1	SP Staff	SP Staff
Fri, Mar 19	8:10 9:00	PHYS/CTS	Lecture	Koenig	Mechanics of breathing III
	9:10 10:00	PHYS/CTS	Discuss	Koenig	Q & A on control of respiration and mechanics of breathing
	10:10 11:00	NEUR	ClinC	Wooten	Brainstem syndromes
	11:10 12:00	HUMAN	Lecture	Hobbs	Families II