

FIRST YEAR CLASS SCHEDULE

DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Jan 3	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	Hussaini	Autonomic nervous system: 2 nd messengers & signal transduction
	10:10 12:00	NEUR	Lecture	Lee/Worden	Introduction/ground plan
Tue, Jan 4	8:10 9:00	GENE	Lecture	Golden	Introduction
	9:10 10:00	POM 1	Lecture	Gazewood/Bargmann	Introduction to 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	Past medical history role plays; visitors from AA
Wed, Jan 5	8:10 9:00	PHYS/CTS	Lecture	Hussaini	Autonomic nervous system: 2 nd messengers & signal transduction
	9:10 10:00	PHYS/CTS	Lecture	Hussaini	Autonomic control of the cardiovascular system
	10:10 12:00	NEUR	Lecture	Worden	Blood supply (stroke)
Thu, Jan 6	8:10 9:00	PHYS/CTS	Lecture	Hussaini	Autonomic review
	9:10 10:00	PHYS/CTS	Lecture	DeSimone/Taylor	Histology of heart and blood vessels
	10:10 12:00	GENE	Lecture	Stukenberg	Fundamentals of nucleic acid structure
	1:00 4:00	POM 1	Groups	Mentors	Past medical history role plays; visitors from AA
Fri, Jan 7	8:10 9:00	PHYS/CTS	Lab	CTS Staff	Lab on histology of blood and blood vessels (groups D,E,G)
	9:10 10:00	PHYS/CTS	Lab	CTS Staff	Lab on histology of blood and blood vessels (groups A,B,C,F)
	10:10 11:00	NEUR	ClinC	Lipper	Brain imaging
	11:10 12:00	HUMAN	Lecture	Hobbs	Sleep II

FIRST YEAR CLASS SCHEDULE

DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Jan 10	8:10 - 10:00	PHYS/CTS	Lecture	Duling Group	Cardiac muscle & its pumping functions
	10:10 - 12:00	NEUR	Lab		
Tue, Jan 11	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 12	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	Winckler	Neurons, glia, and basic circuits (multiple sclerosis)
	12:30 - 1:30		Med Ctr Hour	TBA	TBA <i>Location: Jordan 1-14 Auditorium</i>
Thu, Jan 13	8:10 - 9:00	PHYS/CTS	Lecture	Szabo	Cardiac electrophysiology I – cardiac ion channels
	9:10 - 10:00	PHYS/CTS	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 14	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	Worden	Synaptic transmission & electrochemical signaling (botulism)
	11:10 - 12:00	HUMAN	Lecture	Hobbs	Science & systems

DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Jan 17	8:10 9:00	PHYS/CTS	ClinC	Samembock	Measurement of pressures & flows in the human cardiovasc system
	9:10 10:00	PHYS/CTS	Lecture	Kramer	MRI in cardiovascular disease
	10:10 11:00	NEUR	Lecture	Holt	Transmitters and receptors
Tue, Jan 18	8:10 9:00	GENE	Lecture	Stukenberg	Transcribing information from DNA to RNA
	9:10 10:00	POM 1	Lecture	Bargmann	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	Harvey (stethophones), cardiac case (1/2 of groups) Cardiac exam workshop, cardiac case (1/2 of groups)
Wed, Jan 19	8:10 9:00	PHYS/CTS	ClinC	Duling	The large vessels I – collapse & expansion of vessels
	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 I (misplaced localization)
	12:30 1:30		Med Ctr Hour	Hopper/Ehrenreich	Homeless and working poor <i>Location: Jordan Conference Center Auditorium</i>
Thu, Jan 20	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 11:00	GENE	Lecture	Stukenberg	Protein synthesis: ribosome structure and function
	11:10 12:00	GENE	Lecture	Golden	Basic cytogenetics
	1:00 4:00	POM 1	Groups	Mentors	Harvey (stethophones), cardiac case (1/2 of groups) Cardiac exam workshop, cardiac case (1/2 of groups)
Fri, Jan 21	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	Control of peripheral vasculature II – paracrine signaling in the vessel wall
	10:10 11:00	NEUR	Lecture	Taylor	Somatosensory system II (phantom sensations)
	11:10 12:00	HUMAN	Lecture	Hobbs	Drug use & abuse II

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DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Jan 24	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	Coupling of the heart and great vessels
	10:10 12:00	NEUR	Lecture	Taylor	Somatosensory system III (hyperalgesia)
Tue, Jan 25	8:10 9:00	GENE	Lecture	Golden	Basic cytogenetics II
	9:10 11:00	POM 1	Lecture	Mohrmann	Spirituality in medicine
	11:10 12:00	HUMAN	Lecture	Hobbs	Drug use & abuse III
	1:00 4:00	POM 1	Groups	Mentors	Harvey (stethophones), spirituality case (1/2 of groups) Cardiac exam workshop, spirituality case (1/2 of groups)
Wed, Jan 26	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	Rowlingson	Pain
	12:30 1:30		Med Ctr Hour	Rothstein/Bernheim	Lessons from the SARS epidemic <i>Location: Jordan Conference Center Auditorium</i>
Thu, Jan 27	8:10 9:00	PHYS/CTS	Lecture	Duling	Organ circulations II – brain & viscera
	9:10 10:00	PHYS/CTS	Lecture	Duling	Integrated cardiovascular physiology
	10:10 12:00	GENE	ClinC	Golden/Wilson	Clinical cytogenetics I
	1:00 4:00	POM 1	Groups	Mentors	Harvey (stethophones), spirituality case (1/2 of groups) Cardiac exam workshop, spirituality case (1/2 of groups)
Fri, Jan 28	8:10 9:00	PHYS/CTS	Lecture	Hammill	Neonatal circulation
	9:10 10:00	PHYS/CTS	ClinC	Mounsey	Reflexes in the human cardiovascular system
	10:10 11:00	NEUR	ClinC	Login	Headache
	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, Jan 31	8:10 9:00	PHYS/CTS	Lecture	Tribble	24 hours in the ICU – a ride on the physiological rollercoaster
	9:10 10:00	PHYS/CTS	ClinC	Kattwinkle	Temperature regulation
	10:10 12:00	NEUR	Groups	Faculty	Clinical problems I/Quiz #1
Tue, Feb 1	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 2	8:10 9:00	PHYS/CTS	ClinC	Brady	Variations in cardiac rhythms
	9:10 10:00	PHYS/CTS	ClinC	McNamara	Atherosclerosis, diabetes, & hypertension: don't eat so much
	10:10 12:00	NEUR	Lecture	Lee	Vision I (detached retina)
	12:30 1:30		Med Ctr Hour	Bosk	Forgive and remember <i>Location: Jordan Conference Center Auditorium</i>
Thu, Feb 3	8:10 9:00	PHYS/CTS	Lab Review	CTS Staff	Review of lab on histology of blood & blood vessels (groups D, E, G)
	9:10 10:00	PHYS/CTS	Lab Review	CTS Staff	Review of lab on histology of blood & blood vessels (groups A, B, C, F)
	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 4	8:10 10:00	PHYS/CTS	Discuss	Hussain/Duling	Review: Q and A on autonomic and cardiovascular physiology
	10:10 11:00	NEUR	Lecture	Lee	Vision II
	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 7	9:00 1:00	PHYS/CTS	Exam	Kutchai/Bloodgood	Physiology/CTS Exam #1
Wed, Feb 9	9:00 12:00 12:30 1:30	NEUR	Exam Med Ctr Hour	Harris	Exam I Blues biology <i>Location: Jordan Conference Center Auditorium</i>
Thu, Feb 10	1:00 5:00	HUMAN	Exam	Hobbs	Exam
Fri, Feb 11	1:00 5:00	GENE	Exam		Exam
Mon, Feb 14	8:10 9:00 9:10 10:00 10:10 12:00	PHYS/CTS GENE NEUR	Lecture Lecture Lecture	Castle Kutchai Holt	Histology of the urinary tract Introduction to renal physiology Chemical senses (anosmia)
Tue, Feb 15	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	Silverman Gazewood Davis Hobbs Mentors	Mutations I Chronic illness Power issues Clinical neurophysiology I Visitor w/chronic illness; chronic illness case (1/2 of groups) Eye exam workshop (fundus exam), power issues case (1/2 of groups)
Wed, Feb 16	8:10 9:00 9:10 10:00 10:10 12:00 12:30 1:30	PHYS/CTS PHYS/CTS NEUR	Lab Lab Lecture Med Ctr Hour	CTS Staff CTS Staff Corwin Shapiro	Lab: histology of the urinary tract (groups D,E,G) Lab: histology of the urinary tract (groups A,B,C,F) Auditory system I (cochlear implant; high frequency hearing loss) Song and dance: poems <i>Location: Jordan Conference Center Auditorium</i>
Thu, Feb 17	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	Rosner Kutchai Silverman Mentors	Clearance methods Glomerular filtration Mutations II and DNA diagnostics Visitor w/chronic illness; chronic illness case (1/2 of groups) Eye exam workshop (fundus exam), power issues case (1/2 of groups)
Fri, Feb 18	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 Hashisaki Hobbs	Glomerular filtration, renal blood flow Control of glomerular filtration Auditory system II and auditory system Clinical neurophysiology II

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

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DATE	TIME	COURSE	ACTIVITY	INSTRUCTOR	TOPIC
Mon, Feb 21	8:10 - 10:00	PHYS/CTS	Lecture	Kutchai	Tubular function
	10:10 - 12:00	NEUR	Lecture	Corwin	Vestibular system (patient video, nystagmus goggles)
Tue, Feb 22	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	Visitor w/chronic illness; chronic illness case (1/2 of groups) Eye exam workshop (fundus exam), power issues case (1/2 of groups)
Wed, Feb 23	8:10 - 9:00	PHYS/CTS	Lecture	Rosner	Body fluid compartments
	9:10 - 10:00	PHYS/CTS	Lecture	Kutchai	Control of osmolality, concentration and dilution of urine
	10:10 - 12:00	NEUR	ClinC	Hashisaki	Vestibular system
	12:30 - 1:30		Med Ctr Hour	Savitt	Readers' theatre <i>Location: Jordan Conference Center Auditorium</i>
Thu, Feb 24	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	Visitor w/chronic illness; chronic illness case (1/2 of groups) Eye exam workshop (fundus exam), power issues case (1/2 of groups)
Fri, Feb 25	8:10 - 9:00	PHYS/CTS	Lecture	Kutchai	Control of body fluid osmolality and volume
	9:10 - 10:00	PHYS/CTS	Lecture	Rosner	Renal regulation of potassium, calcium, phosphate, & magnesium
	10:10 - 11:00	NEUR	Lecture	Taylor	Motor I: lower motor neurons (ALS)
	11:10 - 12:00	HUMAN	Lecture	Hobbs	Stress response

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Mon, Feb 28	8:10 9:00	PHYS/CTS	Lecture	Rosner	Renal regulation of potassium, calcium, phosphate, & magnesium
	9:10 10:00	PHYS/CTS	Lecture	Kutchai	Renal regulation of acid-base balance
	10:10 12:00	NEUR	Lecture	Taylor	Motor II: upper motor neurons (rigidity syndromes)
Tue, Mar 1	8:10 9:00	GENE	Lecture	Golden	Mendelian variations
	9:10 10:00	POM 1	Lecture	Peterson/Waters	Motivating behavior change II
	10:10 11:00	POM 1	Lecture	Lombarod	Genetics and ethics
	11:10 12:00	HUMAN	Lecture	Hobbs	Learning I
	1:00 4:00	POM 1	Groups	Mentors	Hospital interviews, OSCE practice (1/2 of groups)
	1:00 4:00	POM 1	Groups	Preceptors	Preceptor visit (1/2 of groups)
Wed, Mar 2	8:10 9:00	PHYS/CTS	Lecture	Kutchai	Renal regulation of acid-base balance
	9:10 10:00	PHYS/CTS	ClinC	Kutchai/Rosner	Review of renal physiology
	10:10 12:00	NEUR	Lecture	Taylor	Motor III: cerebellum (ataxia)
	12:30 1:30		Med Ctr Hour	Oberlander	The political life of medicine <i>Location: Jordan Conference Center Auditorium</i>
Thu, Mar 3	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	Wilson	Principles of clinical genetics
	1:00 4:00	POM 1	Groups	Mentors	Hospital interviews, OSCE practice (1/2 of groups)
	1:00 4:00	POM 1	Groups	Preceptors	Preceptor visit (1/2 of groups)
Fri, Mar 4	8:10 9:00	PHYS/CTS	Lab	CTS STAFF	Lab on histology of the respiratory system (groups D,E,G)
	9:10 10:00	PHYS/CTS	Lab	CTS Staff	Lab on histology of the respiratory system (groups A,B,C,F)
	10:10 11:00	NEUR	ClinC	Wooten	Diseases of the motor unit
	11:10 12:00	HUMAN	Lecture	Hobbs	Learning II

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Mon, Mar 7	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 12:00	NEUR POM 1	Lab	Group SP Staff	Lab II: dissection Videotaped SP interview, individual appointments
Tue, Mar 8	8:10 9:00	GENE	Lecture	Golden	The X and Y chromosomes
	9:10 10:00	POM 1	Lecture	Gazewood	Smoking cessation – brief interventions
	10:10 11:00	POM 1	ClinC	Gazewood	Patient w/chronic pulmonary disease – COPD
	11:10 12:00	HUMAN	Lecture	Hobbs	Communication I
	1:00 4:00	POM 1	Groups	Mentors	Hospital interviews, OSCE practice (1/2 of groups)
	1:00 4:00	POM 1	Groups	Preceptors	Preceptor visit observe and do interviews and some physical diagnosis (1/2 of groups)
			POM 1		SP Staff
Wed, Mar 9	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	Lee	Basal ganglia (Parkinson's)
	12:30 1:30		Med Ctr Hour	Bailey	TBA
			POM 1		SP Staff
Thu, Mar 10	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	Hospital interviews, OSCE practice (1/2 of groups)
	1:00 4:00	POM 1	Groups	Preceptors	Preceptor visit observe and do interviews and some physical diagnosis (1/2 of groups)
			POM 1		SP Staff
Fri, Mar 11	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	Lecture	Zeitlin	Autonomic system
	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 14	8:10 10:00	PHYS/CTS	Lecture	Koenig	Control of respiration
	10:10 11:00	NEUR	Lecture	Zeitlin	Huntington's disease
	11:10 12:00	NEUR POM 1	ClinC	Harrison SP Staff	Patient presentation Videotaped SP interview, individual appointments
Tue, Mar 15	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 POM 1	Groups	Mentors SP Staff	SP group motivating behavioral change interviews Videotaped SP interview, individual appointments
Wed, Mar 16	8:10 10:00	PHYS/CTS	Lecture	Koenig	Mechanics of breathing I & II
	10:10 12:00	NEUR	ClinC	Faculty	Clinical problems II & quiz #2
	12:30 1:30		Med Ctr Hour	Mohrmann	TBA
		POM 1		SP Staff	<i>Location: Jordan Conference Center Auditorium</i> Videotaped SP interview, individual appointments
Thu, Mar 17	8:10 10:00	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 12:00	GENE	Lecture	Golden	Genetics of common diseases
	1:00 4:00	POM 1 POM 1	Groups	Mentors SP Staff	SP group motivating behavioral change interviews Videotaped SP interview, individual appointments
	Fri, Mar 18	8:10 9:00	PHYS/CTS	Lecture	Koenig
10:10 11:00		NEUR	ClinC	Wooten	Brainstem syndromes
11:10 12:00		HUMAN	Lecture	Hobbs	Families II