

SUNY Downstate College of Medicine Integrated Pathways Curriculum, Class of 2022

Unit 1: Human Structure and Function

August 13 – October 5, 2018



UNIT 1: Human Structure and Function Calendar for 2018

We are pleased to offer a preview of the Unit 1 calendar for the Integrated Pathways Curriculum at the SUNY Downstate College of Medicine.

- This version of the calendar is current as of July 10 2018, but there may be changes including the dates and times of activities or assessments before or after implementation of the Unit.
- Any future changes to the calendar are likely to be minor, and the dates and times for most activities will not change.
- The calendar will be posted and available online via the Blackboard/ilios system in early August, and
 we hope to send you a link to the online version about a week before Orientation begins. You'll be
 using the online version extensively throughout the Foundations Units.
- Any changes or updates will be included in the online version.
- We hope that this preview is helpful, and we look forward to meeting you at Orientation on Monday August 6th. We are pleased and privileged to be working with you in Unit 1.
- Please feel free to contact me with any questions or concerns keith.williams@downstate.edu

Dr. Keith Williams

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Distinguished Teaching Professor on behalf of the Unit 1 faculty & staff

June, 2018



UNIT 1

Systems Overview: Human Structure and Function

2018

		Jar	ıua	ry		
Su	Мо	Tu	We	Th	Fr	Sa
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

April Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

July Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

		Oc	tob	er		
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14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	10 17 24 31			

February

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11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28			

		ľ	ray			
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	20	30	21		

August Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 26 27 28 29 30 31

	N	ov	em	ber	•	
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4	5	6	7	8	9	10
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18	19	20	21	22	23	24
25	26	27	7 14 21 28	29	30	

March

Su	Мо	Tu	We	Th	Fr	Sa	
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4	5	6	7	8	9	10	
11	12	13	14	15	16	17	
18	19	20	21	22	23	24	
25	26	27	28	29	30	31	

June

Su	Mo	Tu	We	Th	Fr	Sa
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

September

Su	Mo	Tu	We	Th	Fr	Sa
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2	3	4	5	6	7	8
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16	17	18	19	20	21	22
2 9 16 23 30	24	25	26	27	28	29
30						

December

	_					
Su	Мо	Tu	We	Th	Fr	Sa
						1
2	3	4	5 12 19 26	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

Orientation August 6 to 10, 2018

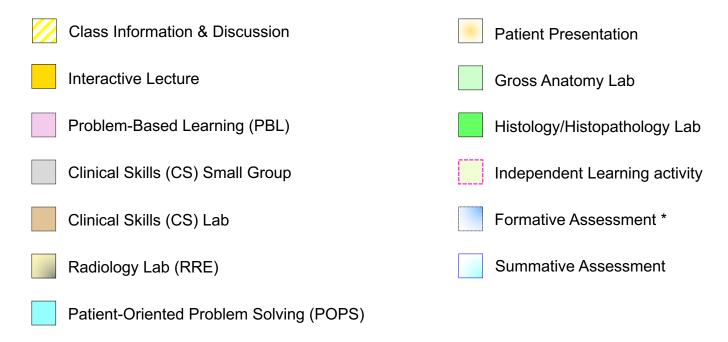
Unit 1: August 13 to October 5, 2018

Unit 2: October 9 to December 21



UNIT 1

Key to Modalities



Please note that some activities (e.g., most Interactive Lectures) include the entire class. Other activities (e.g., PBL, CS Small Group, CS Lab, RRE, POPS, Gross Anatomy Lab) typically include half the class or some other division, e.g., one quarter of the class, in any given session. Those sessions are repeated, either on the same day or on different days, so as to eventually encompass the entire class. For example, Ms. Alvarez Session 1 (PBL, # 2) is taken by Half I of the class on the morning of August 13th and by Half II of the class on the afternoon of the same day; the Thorax anatomy lab (# 21) is taken by half of Half I (a quarter of the class) at 10:00 a.m. on August 21st, by the other half of Half I at 11:00 a.m., and by Half II at 12:00 noon or 2:30 p.m. that day. A particular student will only be in Half I or Half II, and we'll let you know your final assignments during Orientation Week.

All sessions have a Unique ID number shown in blue (1, 2, 3, 119, 5, 7, 6, etc.). The numbers are not necessarily in sequence—they are for reference and are key for calendaring and administrative support.

^{*} Weekly formative assessments open on Friday and are due by 9 a.m. the following Tuesday. The scores do not count toward the Unit grade, but formative assessments are a required activity and a valuable study tool, and are part of the Professionalism competency.

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g elutour	Ş	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II
	2018		nday ust 13		esday Just 14		nesday ust 15		rsday ust 16		day ust 17
9:00	9:00 a.m.	1 Unit 1 Ove	erview	119 Vitals	are Vital			31		221 Circulat	
9:30	9:30 a.m.							Ms. Alvarez		Specific Orga	ns
10:00	10:00 a.m.	2		5 Principles	of Circulation	111 Overvi		Session 2		114 Genera	
10:30	10:30 a.m.	Ms. Alvarez				- Nervous Sys	item			Orientation to	POPS
11:00	11:00 a.m.	Session 1				8 Regulation					
11:30	11:30 a.m.	-				Cardiovascu	lar System				
12:00	12:00 p.m.			7 Cardiac F	unction					16	tion of
12:30	12:30 p.m.									Acute Regula Cardiovascul	ar Function
13:00	1:00 p.m.					104 ANS s	ignaling		31 Ms.	Ī	
13:30	1:30 p.m.	3 Introduction	on to the						Alvarez		
14:00	2:00 p.m.	Medical Enc	ounter	6 Vital		9 The Cardiac			Session 2		
14:30	2:30 p.m.		2 Ms.	Signs		Exam					
15:00	3:00 p.m.		Alvarez								
15:30	3:30 p.m.		Session 1		6 Vital		9 The	E00 Evens	Coff proofice		
16:00	4:00 p.m.				Signs		Cardiac Exam	E00 Exams	Soit practice		
16:30	4:30 p.m.										
	pendent			77a Mon	ney Matters 1					222 Sigr Transduction	

E U1	75.	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II						
	2018		nday ust 20	Tuesday August 21		Wednesday August 22		Thursday August 23		Friday August 24							
9:00 9:30	9:00 a.m. 9:30 a.m.	18 Principle Respiration - Ventilation	es of - Breathing &	25 Princip Gas Excha and Regula	les of Resp. nge, Transport ition									32 Ms. Alvarez	Ms Respiration		ction Potential Correlates
10:00 10:30	10:00 a.m. 10:30 a.m.	19 The Patient- Centered Medical		21 Thorax	10 Echo			Session 3	- -	64 Synapti	c Transmission						
11:00 11:30	11:00 a.m. 11:30 a.m.	Interview		21 Thora	x	13 Principle Balance	es of Fluid	62 Signaling Membrane P									
12:00 12:30	12:00 p.m. 12:30 p.m.				21 Thorax	15 Overview Kidneys	v of the			11 Patient	Presentation						
13:00 13:30	1:00 p.m. 1:30 p.m.	20 Principle Respiration - Dynamics		80 Smooth	n Muscle			28 Respiration	32 Ms. Alvarez								
14:00 14:30	2:00 p.m. 2:30 p.m.	10	19 The	23 The Respi	21 Thorax		23 The Respi		Session 3								
15:00 15:30	3:00 p.m. 3:30 p.m.	Echo	Centered Medical Interview	Exam 23 The			Exam 23										
16:00 16:30	4:00 p.m. 4:30 p.m.			Resp ratory Exam	,		Respi ratory Exam										
	ependent rning					121 Phys Properties											

Weekly Formative Assessments

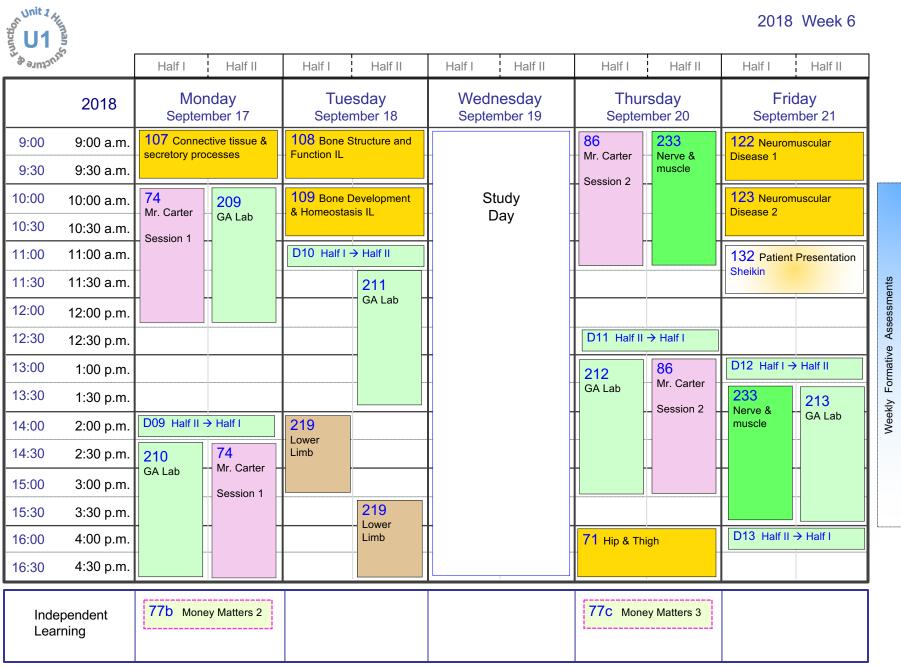
S O J	ig.	Half I	Half II	Half I	Half II	Half I	i i	Half II	Half I	Half II	Half I	Half II
	2018		nday ıst 27		Tuesday August 28		Wednesday August 29			Thursday August 30		day ust 31
9:00 9:30	9:00 a.m. 9:30 a.m.	223 Pharma Therapeutics	acology and	224 Drug-F Interactions	24 Drug-Receptor 2			cokinetics	130 The P	130 The Profession		earn Gross
10:00 10:30	10:00 a.m. 10:30 a.m.	38 Mr. Johnson	26 Homeo- stasis:	112 Capilla and Edema	aries, Lymph	226 Dr	ug Me	tabolism	125 Introd Musculoske		37 Principle Diagnostic In	
11:00 11:30	11:00 a.m. 11:30 a.m.	Session 1		128 Moda Assessment	e de la d							
12:00 12:30	12:00 p.m. 12:30 p.m.				29 Abdo	227 P Therape		cology and	228 Phari	macokinetics	234 Anatomy Intro	231 Histology Intro
13:00 13:30	1:00 p.m. 1:30 p.m.	26 - Homeo-			men 29 Abdo						231 Histology Intro	234 Anatomy Intro
14:00 14:30	2:00 p.m. 2:30 p.m.	stasis:	38 - Mr.	27 The Abdo minal	men	29 Abdo men		The Abdo minal				
15:00 15:30	3:00 p.m. 3:30 p.m.		Johnson Session 1	Exam 27 The		Α	29 abdo nen	Exam 27 The				
16:00 16:30	4:00 p.m. 4:30 p.m.			Abdo minal Exam				Abdo minal Exam				
Independent Learning		222 Sign Transduction				235 Revis	Rece ited	ptors				

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S de la control		Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II										
	2018	Monday September 3														Wednesday September 5		Thursday September 6		Friday September 7	
9:00	9:00 a.m.							34 Bones &	Joints	40 Principle	s of	48	232	230 Back	50						
9:30	9:30 a.m.	Labor	Day			Diagnostic Imag		Mr. Johnson	Smooth muscle & blood	& Spine	Shoulder										
10:00	10:00 a.m.	_	-	232	201	41 Vertebra		Session 2	vessels		000 -										
10:30	10:30 a.m.	_		Smooth muscle & blood	GA Lab	Spinal Cord	and PNS		-	50	230 Back & Spine										
11:00	11:00 a.m.	_		vessels						Shoulder											
11:30	11:30 a.m.		-					-													
12:00	12:00 p.m.	_				D02 Half I -	→ Half II														
12:30	12:30 p.m.					203		D03 Half II → Half I		44 Back &	Spine										
13:00	1:00 p.m.	-					GA Lab	204	48	<u> </u>											
13:30	1:30 p.m.		-	D01 Half II	→ Half I			GA Lab	Mr. Johnson												
14:00	2:00 p.m.	_		202	217	217		Ì	Session 2												
14:30	2:30 p.m.		-	GA Lab	Upper Limb	Upper Limb		-													
15:00	3:00 p.m.	_																			
15:30	3:30 p.m.		-		217 Upper	217		D04 Half I	→ Half II												
16:00	4:00 p.m.				Limb	Upper . Limb															
16:30	4:30 p.m.																				
Independent Learning						39 Terry S (Biostats)	urvives														

Unit 2	4.
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S enuture	75	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II
	2018	018 Monday September 10			esday mber 11	Wedn Septen		Thursday September 13		Friday September 14	
9:00	9:00 a.m.	68 The Neuromuscular Junction		81 Excitation—Contraction Coupling In Skeletal			ontrol of	69 Mr.		55 Elbow a	nd Hand
9:30	9:30 a.m.			Muscle		movement		Johnson			
10:00	10:00 a.m.	60 Profession-	205	85 Physiolo Properties of		120 Sensory - Spinal Cord F		Session 3		131 Nerve and Muscle	
10:30	10:30 a.m.	alism	GA Lab	Muscle	J	Оринан бога т	recessing				
11:00	11:00 a.m.							115 Assess	sment Week -		
11:30	11:30 a.m.							Discussion,			
12:00	12:00 p.m.			D05 Half II	→ Half I	D06 Half I	Half II				
12:30	12:30 p.m.			206			207				
13:00	1:00 p.m.			GA Lab			GA Lab	75 Upper	69 Mr.	D07 Half II	→ Half I
13:30	1:30 p.m.							Limb	Johnson	208	75 Upper
14:00	2:00 p.m.				218 Back,	218 Back,			Session 3	GA Lab	Limb
14:30	2:30 p.m.		60 - Profession-		spine	spine _ & Hip					
15:00	3:00 p.m.		alism								
15:30	3:30 p.m.				218 Back,	218 Back,					
16:00	4:00 p.m.				spine & Hip	spine & Hip				D08 Half I -	→ Half II
16:30	4:30 p.m.										
Independent Learning											





S porture	D.S.	Half I	Half II	На	alf I	Half	f II	Half I	Half II	Half I	Half II	Half I	Half II
	2018	Monday October 1		Tuesday October 2			Wednesday October 3		Thu Octo	rsday ober 4	Friday October 5		
9:00	9:00 a.m.												
9:30	9:30 a.m.												
10:00	10:00 a.m.			E02 GA E03 Rad & Histo			tudy				'		
10:30	10:30 a.m.		01 DSCE			Day		E04 MK Essay Exam		E06 NBME MCQ Exam			
11:00	11:00 a.m.		3002		E02		E03				dy Exam	T NOWE W	OQ EXAM
11:30	11:30 a.m.			-	GA		Rad &						
12:00	12:00 p.m.						Histo				05		
12:30	12:30 p.m.			E03 Rad		E02		_		PC Ess	ay Exam		
13:00	1:00 p.m.			& Histo		GA -							
13:30	1:30 p.m.				E03		E02						
14:00	2:00 p.m.				Rad &		GA						
14:30	2:30 p.m.				Histo								07 PC
15:00	3:00 p.m.												Exam
15:30	3:30 p.m.												
16:00	4:00 p.m.												
16:30	4:30 p.m.								1				
	ependent rning												