

SUNY Downstate College of Medicine Integrated Pathways Curriculum, Class of 2021

Unit 1: Human Structure and Function

August 14 – October 6, 2017



UNIT 1: Human Structure and Function Calendar for 2017

Updated August 4, 2017

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 August 4, 2017, but there may be changes to the
 calendar 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 at Downstate.
- Any changes or updates will be included in the online version.
- We hope that this preview is helpful, and we look forward to meeting the incoming Class of 2021 at Orientation on Monday August 7th. 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
Distinguished Teaching Professor

May, 2017

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UNIT 1

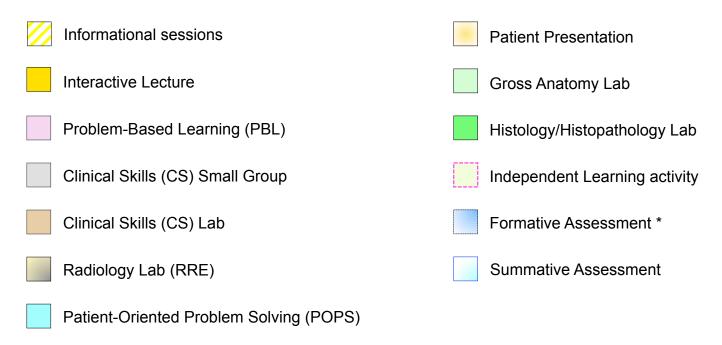
Calendar Overview

2017

January	February	March	
Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7	Su Mo Tu We Th Fr Sa 1 2 3 4	Su Mo Tu We Th Fr Sa 1 2 3 4	
8 9 10 11 12 13 14 15 16 17 18 19 20 21	5 6 7 8 9 10 11 12 13 14 15 16 17 18	5 6 7 8 9 10 11 12 13 14 15 16 17 18	
22 23 24 25 26 27 28 29 30 31	19 20 21 22 23 24 25 26 27 28	19 20 21 22 23 24 25 26 27 28 29 30 31	
April	May	June	
Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6	Su Mo Tu We Th Fr Sa 1 2 3	
2 3 4 5 6 7 8 9 10 11 12 13 14 15	7 8 9 10 11 12 13 14 15 16 17 18 19 20	4 5 6 7 8 9 10 11 12 13 14 15 16 17	
16 17 18 19 20 21 22	21 22 23 24 25 26 27	18 19 20 21 22 23 24	
23 24 25 26 27 28 29 30	28 29 30 31	25 26 27 28 29 30	
Tooler.	August	September	
July	August	September	Outendation
July Su Mo Tu We Th Fr Sa 1	Su Mo Tu We Th Fr Sa	Su Mo Tu We Th Fr Sa	Orientation August 7 to 11
Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9	August 7 to 11
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	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	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	August 7 to 11 Unit 1:
Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15	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	Su Mo Tu We Th Fr Sa 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	August 7 to 11
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	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	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	August 7 to 11 Unit 1:



UNIT 1 Key to Modalities



Please note that some activities (e.g., Interactive Lectures) include the entire class in each session. 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 14th 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 2:30 p.m. on August 21st, by the other half of Half I at 3:30 p.m. that day, and by Half II the following morning. 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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Sucture &	S.	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	
	2017		nday ust 14		esday ust 15		nesday ust 16		rsday ust 17		day ust 18	
9:00	9:00 a.m.	1 Unit 1 Ov	erview	119 Vitals	are Vital			31				
9:30	9:30 a.m.							Ms. Alvarez				
10:00	10:00 a.m.	2		5 Principles			111 Overview of the			15 Overview of the		
10:30	10:30 a.m.	Ms. Alvarez				- Nervous Sys	aem			Kidneys		
11:00	11:00 a.m.	session 1				8 Regulation				114 General	Il Discussion;	
11:30	11:30 a.m.					Cardiovascu	lar System		13 Principles of Fluid		POPS	
12:00	12:00 p.m.			7 Cardiac F	unction			Balance				
12:30	12:30 p.m.											
13:00	1:00 p.m.					104 ANS s	ignaling	10 Echo	31 Ms.	16 Acute regula	tion of	
13:30	1:30 p.m.	3 Introduction Medical Enco	on to the		10 Echo		,	10 Echo	Alvarez	Cardiovascu	ar Function	
14:00	2:00 p.m.	Wedical Effect	Duniel	6 Vital	10 Echo	9 The Cardiac		10 Echo	session 2			
14:30	2:30 p.m.		2 Ms.	Signs	10 Echo	Exam		10 Echo				
15:00	3:00 p.m.		Alvarez		10 Echo							
15:30	3:30 p.m.		session 1		6 Vital		9 The Cardiac	ExamSoft pra	actice exam			
16:00	4:00 p.m.				Signs		Exam					
16:30	4:30 p.m.											
	ependent rning			77a Mon	ey Matters 1							

TU TO	liman :									2017	Week 2		
wcture &	Dr.	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II		
	2017		Monday August 21				esday Just 22		nesday ust 23		rsday ust 24	Frio Augu	
9:00 9:30	9:00 a.m. 9:30 a.m.	18 Principle Respiration - Ventilation	s of Breathing &	25 Principle Gas Exchan and Regulat	ge, Transport	130 The F	Profession	32 Ms. Alvarez	ls. Respiration		on Intro		
10:00 10:30	10:00 a.m.	19 The Patient- Centered		26 Homeo- stasis:	21 Thorax	11 Patient	Presentation	session 3			70 Cells and Tissue		
11:00	11:00 a.m.	Medical Interview			21 Thorax			125 Intro to	MSkel and				
11:30	11:30 a.m.					29 Abdomen		PNS					
12:00	12:00 p.m.					Abdomen							
12:30	12:30 p.m.					29 Abdomen							
13:00	1:00 p.m.				26 Homeo-	Abdomen		28 Respiration	32 Ms.	70 Cells and			
13:30	1:30 p.m.	20 Principle			stasis:		29 Abdomen	Respiration	Alvarez	Tissue			
14:00	2:00 p.m.	Respiration – Dynamics	Pulmonary	23 The		27 The Abdominal	Abdomen		session 3				
14:30	2:30 p.m.	21 Thorax	19 The	Respiratory Exam		Exam	29 Abdomen						
15:00	3:00 p.m.		Centered Medical				Abdomen						
15:30	3:30 p.m.	21 Thorax	Interview		23 The Respiratory		27 The Abdominal						
16:00	4:00 p.m.				Exam		Exam						
16:30	4:30 p.m.												
	ependent	105 Intro									_		

Learning

Medicine

Weekly Formative Assessments

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Thorange &		Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II
	2017	Monday August 28		Tuesday August 29		Wednesday August 30		Thursday August 31		Friday September 1	
9:00	9:00 a.m.	34 Bones & Joints		ones & Joints 37 Principles of diagnostic imaging 1			40 Principles of		ry Afferents &	D04 Half I to Half II (46)	
9:30	9:30 a.m.			diagnostic in	naging 1	diagnostic in	naging 2	Spinal Cord	Processing	49 Back and	47 Upper
10:00	10:00 a.m.	38	35A		al Column,	44 Back 8	Spine	128 Moda		Spine Spine	Limb 2
10:30	10:30 a.m.	- Mr. Johnson	Back & Spine 1	Spinal Cord	and PNS			Assessment			
11:00	11:00 a.m.	session 1									
11:30	11:30 a.m.										
12:00	12:00 p.m.					D02 Half I to	Half II (35b)	D03 Half II to	Half I (36)	D05 Half II to	Half I (47)
12:30	12:30 p.m.						36	46 Upper			
13:00	1:00 p.m.						Back& Spine 3	Limb 1	49 Back and		
13:30	1:30 p.m.	D01 Half II to	o Half I (35a)						Spine	50 Shoulder	
14:00	2:00 p.m.	35B			45 Back						
14:30	2:30 p.m.	Back & Spine 2	38		and Spine	and Spine					
15:00	3:00 p.m.		Mr. Johnson								
15:30	3:30 p.m.		session 1		45 Back	45 Back					
16:00	4:00 p.m.				and Spine	and Spine					
16:30	4:30 p.m.										
Independent Learning				77b Money Matters 2		39 Terry Survives (Biostats)				121 Phys Properties o	iological f Cells

Weekly Formative Assessments

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	2017	Mor Septer	nday mber 4		esday ember 5		nesday ember 6		rsday mber 7		day mber 8
9:00 9:30	9:00 a.m. 9:30 a.m.	Labo	or Day	62 Signalir Membrane F	ng & Resting Potential	64 Synapti	c Transmission	48 Mr. Johnson 103 Smooth Muscle and		68 The Neur Junction	omuscular
10:00	10:00 a.m.	_		63 The Adams and Clinical	ction Potential Correlates	80 Smooth	Muscle	session 2	_ Blood Vessels	112 Capillaries, Lymph and edema	
10:30	10:30 a.m.				÷		÷				
11:00	11:00 a.m.										
11:30	11:30 a.m.										
12:00	12:00 p.m.			51 Upper		D06 Half I t	o Half II (51)			D08 Half I to Half II (57)	
12:30	12:30 p.m.			Limb 3			52 Upper	D07 Half II to Half I (52)		103 Smooth	58
13:00	1:00 p.m.	-					Limb 4	57 Upper	48 Mr.	Muscle and Blood	Upper - Limb 6
13:30	1:30 p.m.							Limb 5	Johnson	Vessels	
14:00	2:00 p.m.				56 Shoulder,	56 Shoulder,			session 2		
14:30	2:30 p.m.				Elbow	Elbow					
15:00	3:00 p.m.									D09 Half II to	Half I (58)
15:30	3:30 p.m.				56 Shoulder,	56 Shoulder,					
16:00	4:00 p.m.				Elbow	Elbow					
16:30	4:30 p.m.										
Independent Learning											

Weekly Formative Assessments

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g annour	<i>§</i> 5	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	
	2017	Monday September 11			esday mber 12				rsday nber 14	Frid Septen		
9:00	9:00 a.m.	81 Excitation	n-Contraction	131 Muscle Fund	ation	79 Neural co	ontrol of	69 Mr.	75 Upper Limb	75 Upper Limb	98 Striated	
9:30	9:30 a.m.	Muscle	Skeletal	Muscle I unc	JUOII	movement		Johnson	Opper Limb	Оррег Еппі	Muscles	
10:00	10:00 a.m.	60 Profession-				55 Elbow ar	nd Hand	session 3				
10:30	10:30 a.m.	alism							-			
11:00	11:00 a.m.											
11:30	11:30 a.m.											onte
12:00	12:00 p.m.					D10 Half I to	Half II (65)					moodo
12:30	12:30 p.m.						66	D11 Half II to	Half I (66)	D12 Half I to	Half II (72)	Q Q
13:00	1:00 p.m.	85 Physiolo	ogical		ctive tissue &		Upper Limb 8	72 Lower	69 Mr.	98 Striated	73 Lower	Meekly Formative Assessments
13:30	1:30 p.m.	Properties of Muscle	Skeletal	secretory pro	secretory processes			Limb 1	Johnson	Muscles	Limb 2	KIV FC
14:00	2:00 p.m.	65 Upper			67Wrist, Hand, Hip	67Wrist, Hand, Hip			session 3			Web.
14:30	2:30 p.m.	Limb 7	60 Profession-		Tiana, Tiip	Tianu, riip						
15:00	3:00 p.m.		alism									
15:30	3:30 p.m.				67Wrist, Hand, Hip	67Wrist, Hand, Hip				D13 Half II to	Half I (73)	
16:00	4:00 p.m.				Tianu, Tiip	Tianu, riip						l '
16:30	4:30 p.m.											
Independent Learning												

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S annibur	<u> </u>	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II
	2017		nday mber 18		Tuesday September 19		Wednesday September 20		rsday nber 21	Friday September 22	
9:00	9:00 a.m.	108 Bone Structure and Function		109 Bone D	Development	71 Hip & T	71 Hip & Thigh		110 BONE	94 Knee and Ankle	
9:30	9:30 a.m.	Function		& Homeostas	SIS			Mr. Carter session 2	BOINE		
10:00	10:00 a.m.	74 Mr. Carter		115 Assess Discussion, (117 Introdu	uction to Ethics	30331011 2	session 2		
10:30	10:30 a.m.	session 1		Discussion, C	2 & A						
11:00	11:00 a.m.									D16 Half I to	Half II (88)
11:30	11:30 a.m.									110 BONE	89 Lower
12:00	12:00 p.m.			D14 Half I to	Half II (82)	D15 Half II to	Half I (83)			BONE	Limb 6
12:30	12:30 p.m.				83 Lower	88 Lower					
13:00	1:00 p.m.				Limb 4	Limb 5			86 Mr. Carter		
13:30	1:30 p.m.	82 Lower							session 2		
14:00	2:00 p.m.	Limb 3		84 Knee, Ankle, Foot			84 Knee, Ankle, Foot			D17 Half II to Half I (89)	
14:30	2:30 p.m.		74 Mr. Carter	Alikie, Foot			Affikie, Foot				
15:00	3:00 p.m.		session 1								
15:30	3:30 p.m.			84 Knee,			84 Knee,				
16:00	4:00 p.m.			Ankle, Foot			Ankle, Foot				
16:30	4:30 p.m.										
	ependent			77C Mon	ey Matters 3						

	Weekly Formative Assessments	
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yoture &	75	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II										
	2017	Monday September 25		Tuesday September 26		Wednesday September 27		Thursday September 28		Friday September 29											
9:00 9:30	9:00 a.m. 9:30 a.m.	33 The Neu Exam	urological	122 Neuromuscular Disease 1		124 Neuromuscular Disease		99 Mr. Carter session 3													
10:00	10:00 a.m.	126 The Social Neurologic		123 Neuromuscular Disease 2																	
10:30	10:30 a.m.	History	-al Exam	Biocase 2	·																
11:00	11:00 a.m.										_										
11:30	11:30 a.m.							132 Patier	t Presentation												
12:00	12:00 p.m.	SP1 - 1-on-1 Stand	dardized	95 Lower						Stud	y Day										
12:30	12:30 p.m.			Limb 7		D18 Half I to Half II (95)				,											
13:00	1:00 p.m.				92 Lower Limb	92 Lower Limb	96 Lower	99 Mr. Carter													
13:30	1:30 p.m.				Lower Limb		Limb 8		session 3												
14:00	2:00 p.m.																				
14:30	2:30 p.m.	42 The Neurologic -al Exam	126 The Social																		
15:00	3:00 p.m.																				
15:30	3:30 p.m.					D19 Half II to	o Half I (96)														
16:00	4:00 p.m.					100 Review															
16:30	4:30 p.m.					(OPTIONAL)															
	Independent Learning																				



Sucture &	, , , , , , , , , , , , , , , , , , ,	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II	Half I	Half II
	2017	Monday October 2		Tuesday October 3		Wednesday October 4		Thursday October 5		Friday October 6	
9:00	9:00 a.m.										
9:30	9:30 a.m.										
10:00	10:00 a.m.	E01 PC OSCE									
10:30	10:30 a.m.							MK Ess	04 ay Exam	E06 NBME MCQ Exam	
11:00	11:00 a.m.			E02 Half I Gross Anatomy	E03 Half II				,		
11:30	11:30 a.m.				Histology						
12:00	12:00 p.m.			FOOTILE	F00 11.15 II		E05				
12:30	12:30 p.m.			E03 Half I Histology	E02 Half II Gross			PC Essay Exam			
13:00	1:00 p.m.		Anatomy								
13:30	1:30 p.m.										
14:00	2:00 p.m.									E07 PC MCQ Exam	
14:30	2:30 p.m.										
15:00	3:00 p.m.										
15:30	3:30 p.m.										
16:00	4:00 p.m.										
16:30	4:30 p.m.										
Independent Learning											