Cell And Systems Biology BME 205H1S (Winter 2017) Tentative Lecture, Tutorial, and Lab Schedules Course Coordinator: Professor Penney M. Gilbert

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Date	Туре	Lecturer	Topic*	Laboratories	Tutorials
Tue, 10-Jan		PMG	Course overview & setting expectations		
Thu, 12-Jan	Lecture 2	PMG	Part I, The musculoskeletal system: from tissues to cells (Ch1)		
Week of Jan 16	Tutorial 1		Review of concepts and aspects of design (Lecture 1-3)	Lab 1: EMG or Lab 2: Microscopy	Units of Measurement
			Part I, Chapter 1, Introduction to the study of cell & systems biology	Lab 1. EMG of Lab 2. Microscopy	Units of Measurement
Tue, 17-Jan	Lecture 5	PMG			
Thu, 19-Jan	Lecture 4		Part I, Chapter 2, The chemical basis of life		
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Week of Jan 23	Tutorial 2	D) (C	Review of concepts and aspects of design (Lecture 4-5)	Lab 1: EMG or Lab 2: Microscopy	Review of Concepts
Tue, 24-Jan		PMG	Part I, Chapter 2, The chemical basis of life		
Thu, 26-Jan	Lecture 6	PMG	Part I, Chapter 3, Bioenergetics, enzymes, and metabolism		
Week of Jan 30	Tutorial 3		Review of concepts and aspects of design (Lecture 6-7)	Lab 1. EMC and ab 2. Minnesses	Western Blotting
Tue, 31-Jan		PMG	Part I, Chapter 4, The structure and function of the plasma membrane	Lab 1: EMG or Lab 2: Microscopy	western Biotting
Thu, 2-Feb		PMG	Part I, Chapter 4, The structure and function of the plasma membrane		
111u, 2-reo	Lecture 8	FIVIG	rart i, Chapter 4, The structure and function of the plasma memorane		
Week of Feb 6	Tutorial 4		Preparation Quiz (5%, Covers lectures 1-7)	Lab 1: EMG or Lab 2: Microscopy	Preparation Quiz
Tue, 7-Feb		PMG	Part I, Chapter 5, Aerobic respiration and the mitochondrion	Lab 1. EWG of Lab 2. Microscopy	i reparation Quiz
	Lecture 10	PMG	Part I, Chapter 5, Aerobic respiration and the mitochondrion		
inu, 9-reb	Lecture 10	PMG	art i, Chapter 3, Acrobic respiration and the millochondrion		
Week of Feb 13	Tutorial 5		Review of concepts and aspects of design (Lecture 8-11)	Lab 3: Cheek Cell Isolation & Proteomics	FRAP
Tue, 14-Feb		PMG	Part I, Chapter 7, Interactions between cells and their environment	Lab 3. Check Cell Isolation & Flotconnes	TRAI
Thu, 16-Feb		PMG	Part I, Chapter 7, Interactions between cells and their environment		
111u, 10-reo	Lecture 12	FIVIG	rait i, Chapter 7, interactions between cens and their environment		
Week of Feb 20	READING WEEK			No Labs	No Tutorials
Tue, 21-Feb			Reading week begins	No Labs	110 Tutoriais
Thu, 23-Feb			Reading week ends		
11iu, 25-1 co			reading week ends		
Week of Feb 27	Tutorial 6		Review of concepts and aspects of design (Midterm Review Lectures 1-12)	Lab 3: Cheek Cell Isolation & Proteomics	Jeopardy!
Tue, 28-Feb		PMG	Part II, Chapter 7, Interactions between cells and their environment		- Coopinay:
Thu, 2-Mar		PMG	Part II, Chapter 8, Cytoplasmic membrane systems		
Week of Mar 6	Tutorial 7		March 9th, 9-11am (EX100)	No Labs	Nanomedicine
Tue, 7-Mar	Lecture 15	PMG	Part II, Chapter 8, Cytoplasmic membrane systems		
Thu, 9-Mar	Lecture 16	PMG	Part II, Chapter 10, The nature of the gene & the genome		
Week of Mar 13	Tutorial 8		Review of concepts and aspects of design (Lectures 16-17)	Lab 4: PCR	Mitochondrial Diseases & Crispr/Cas9
Tue, 14-Mar	Lecture 17	PMG	Part II, Chapter 11, Gene expression: from transcription to translation		
Thu, 16-Mar	Lecture 18	PMG	Part II, Chapter 11, Gene expression: from transcription to translation		
Week of Mar 20	Tutorial 9		Review of concepts and aspects of design (Lectures 18-19)	Lab 4: PCR	PCR
Tue, 21-Mar		PMG	Part II, Chapter 12, Control of gene expression		
Thu, 23-Mar	Lecture 20	PMG	Part II, Chapter 9, The cytoskeleton and motility		
Week of Mar 27	Tutorial 10		Preparation Quiz. (5%, Covers Lectures 12-19; Labs 2-4; Tutorials 7-9)	Lab 5: Forensic DNA fingerprinting	Preparation Quiz
Tue, 28-Mar		PMG	Part II, Chapter 9, The cytoskeleton and motility		
Thu, 30-Mar	Lecture 22		Part II, Chapter 9, The cytoskeleton and motility - Stem cell mechanobiology		
Week of Apr 3	Tutorial 11		Review of concepts and aspects of design (Lectures 20-22)	Lab 5: Forensic DNA fingerprinting	Cell Contractility
	Lecture 23	PMG	Part II, Chapter 14, Cellular reproduction		
Thu, 6-Apr	Lecture 24	PMG	Part II, Chapter 14, Cellular reproduction - Engineering biosensors		
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Week of Apr 10	Y . 25	D) (C	Review of concepts and aspects of design (Lectures 23-24)	No Labs	No Tutorials
Tues, 11-Apr		PMG	Part II, Chapter 14, Cellular reproduction - Stem cell bioprocessing		
Thurs, 13-Apr	Lecture 26	PMG	Part II, Review Session (Jeopardy!)	-	
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Mon, 17-Apr			Exam period begins		
Fri. 28-Apr		_	TBD Exam period ends		
гп, 28-Apr			Exam period ends		

^{*} Corresponding textbook chapters taken from Karp 7th edition *EngSci classes/labs/tutorials cancelled on Fri Jan 20th, 2017 for EngSci Education Conference