Tentative Bio 30AP 2025/26 Day 1 Schedule (~81 classes)

Week	Day 1	Topic	Assignment	Text: Campbell (Cdn. Ed.)	Program of Studies	
					Alberta	AP
1	Sept 2(Tu)	Course introduction and Unit 1**:** a) Molecular Genetics	personal survey begin *MyAP* assigned progress check unit one	Chapter 5 (review macromolecules), note pp. 92 - 98		
	Sep 4 (Th)	DNA isolation/DNA History	reading assignment bring in candy for modeling watch video posted on google class	pp. 328 – 334; p. 412-415	30–C3.1k	Topic 1.5, 1.6 Topic 6.1
2	Sep 8 (Mon)	Structure	• model DNA (due next week; submit through google classroom) • assign progress check unit 6 • WB pp. 1-2	cont'd		
	Sep 10 (Wed)	Replication	WB pp. 3 - 5	pp. 337 - 346	30–C3.2k	Topic 6.2
	Sept 12 (Fri)	Transcription & Translation	WB pp 6 - 12	Ch 17	C3.3k	Topic 6.3, 6.4
3	Sept 16 (Tu)	Protein synthesis cont'd and Mutations	WB pp 13-15	Ch 17: 369 – 371;	30–C3.4k, 3.6k; 3.7k	Topic 6.7

	Sep 18 (Th)	***Quiz 1*** Regulation of Gene Expression		Ch 18		Topics 6.5, 6.6
4	Sep 22 (Mon)	DNA modifications Genetics and Society	WB pp. 16-19; p. 21 Construct pglo lab flow chart	Ch 20	30–C3.1s - C3.3s 30–C3.5k	Topic 6.8
	Sep 24 (Wed)	***AP Investigation (9)*** *Gel Electrophoresis (30 minutes)*	WB part E			Topic 6.8
	Sep 26 (Fr)	***Ap Investigation Gel part 2*** *(20 minutes measurements)*	flow chart due			
5	Oct 1(Wed)	***Ap Investigation (6)***: pglo lab review				
	Oct 3 (Fri)	***check results***				
6	Oct 7 (Tu)	**Molecular Genetics Exam**	*Progress Checks MC* 6 **Pglo and gel labs due**			
	Oct 9 (Th)	Ploidy	WB pp. 1	Ch 12	30–C1.1k; C1.2k	
7	Oct 14(Tu)	mitosis pre-lab	WB pp. 1 - 4	Ch 12	30–C1.1k; C1.2k	
	Oct 16(Th)	***AP, Investigation (7)****: Mitosis onion root tip*			30–C1.2s	
8	Oct 21 (Tu)	Cell Cycle and its Regulation	reading assignment: ch 11; Ch 12 pp. 254 - 258; Ch 18: pp. 399 - 404	Ch 12		Topic 4.6, 4.7
	Oct 23 (Th)	Meiosis: crossing over,		Ch 13	30–C1.3k 30–C1.4k	Topic 5.1 & 5.2
9	Oct 27 (Mon)	nondisjunction, karyotyping, twins		pp. 270, 870-871	30–C1.1k, C1.7k	

	Oct 29 (Wed)	*Quiz 2*: mitosis and meiosis Reproduction Strategies Alternation of Generations		pp. 647, 652, 657, 671, 674, 723		
	Oct 31 (Fri)	Introduction to Stats ***AP investigation***: Statistics through properties of water	My ap unit 4 due			
10	Nov 4 (Tu)	Chi Square Test	Submit AP Lab Bring in M&Ms			
	Nov 6 (Th)	Heredity - terminology and single trait crosses	WB pp. 5,6,	Ch 14	30–C2.1k, C2.2k	Topic 5.3
11	Nov 10 (Mon)	Mendelian Genetics: double trait crosses	WB p. 7, Q 1 - 6			
12	Nov 18 (Tue)	work period; corn lab	Dihybrid cross "quiz" in WB			
	Nov 20 (Th)	other autosomal crosses	*WB pp. 8, 9, Are you my type and murder mystery*			
13	Nov 24 (Mon)	sex linkage chromosome mapping;	*WB 9, 10*	Ch 15	30–C2.3k 30–C2.5k	Topic 5.4
	Nov 26 (Wed)	*Quiz 3: crosses* *AP lab: Fruit Fly Crosses*				
	Nov 28 (Fri)	Environmental effects on phenotype, chromosomal inheritance, and Pedigrees	*WB Pedigree problems*	p. 295-296		Topics 5.5 5.6 (*visual representations*)
14	Dec 2 (Tu)	cutest baby face activity	*cutest baby face assignment* FRQ's open book test			
	Dec 4 (Th)	**Cell Reproduction and Inheritance Exam**	*FRQ's due* *Progress Check Unit 5 due*			
15	Dec 8 (Mon)	Hardy Weinberg	***AP Investigation 2*** Mathematical modeling	Ch 23: pp. 507-513	30–D1.1-1.4k,	Topics 7.4 & 7.5

	Dec 10 (Wed)	Teddy Grahams activity or new group activity?				
	Dec 12 (Fr)	Causes of gene pool change	*Quiz 4 Hardy Weinberg posted*			
16	Dec 16 (Tu)	Population Growth Patterns/curves	computer modeling	Ch 53	30–2.1k, 2.2k, 3.1k, 3.2k, 3.3k, 3.4k, 3.3s	Topic 8.1, 8.3, 8.4
	Dec 18 (Th)	Population Growth Curves cont'd Interactions/Ecological Succession	computer modeling			8.3 & 8.4
Christmas Break						
17	Jan 5 (Mon)	…Ecological Succession AP Ecology Calculations		Ch 54 pp. 1282 - 1284	30–2.3k	Topic 8.5
	Jan 7 (Wed)	**calculations**				
	Jan 9 (Fri)	**Populations & Communities Exam**				Topi 2.8

18	Jan 13 (Tu)	***Lab, AP Investigation 4*:** Water Potential? Water Potential completion (Wed lunch)				Topi 2.8
	Jan 15 (Th)	**Replacement Exam?**				
19/20 EXAM WEEK						
21	Jan 30 (Fri)	Introduction to homeostasis Neurons Reflex arcs	neuron foldable Assignment: *neuron modeling*	Ch 48 Neurons, Synapses	30–A1.6k, A1.1k; A1.3k	Neurons
22	Feb 3 (Tu)	Neuron Modeling reflex arc lab	WB pp. 1 - 3			
	Feb 5 (Th)	Axon transmission	WB pp. 4 Assignment: *the brain learns in unexpected ways*			
23	Feb 9(Mon)	Synaptic transmission				
	Feb 11 (Wed)	Autonomic Nervous System work period	WB p. 5, 6 Assignment: *neurotransmitters*	Ch 49 Nervous Systems	30–A1.2K	
	Feb 13 (Fri)	CNS - the brain	Brain hat			
24	Feb 19 (Fr)	Class Presentations				
25	Feb 23 (Mon)	*Quiz 6:* Nerves and Brain				

	Feb 25 (Wed)	Senses: the Eye		Ch 50 Sensory Mechanisms	30–A1.4k; A1.5k	
26	Feb 26 (Wed)	Eye/Ear				
27	Mar 3 (Tu)	Ear			30–A1.2s	
	Mar 5 (Th)	**Lab**: Senses & Eye dissection				
28	Mar 9 (Mon)	Quiz and Review				
	Mar 11 (Wed)	**Nervous System and Senses Exam**				
scona initiative	Mar 13 (Fri)	Introduction to cell signaling		Ch 45 Hormones	30–A2.1k – 2.4 K	topics 4.1 - 4.5 My AP
29	Mar 17 (Tue)	homeostasis			30–A2.6k; 2.5k	
	Mar 19 (Th)`	Regulation of growth and metabolism			30–A2.6k; 2.5k	
30	March 24(Tu)	Response to stress			30–A2.6k; 2.5k	
	March 26(Th)	Regulation of blood glucose case study				
MARCH BREAK						
31	April 7(Tue)	**Lab**: Analyzing endocrine disorders (or do before march break?)				
	April 9 (Th)	***Endocrine Exam***				

32	April 13 (Mon)	*AP Review: Topics One and Two FRQ*				
	April 15 (Wed)	*AP Review: Topics Three and Four FRQ*				
	April 17 (Fri)	*AP Review: Topics Five and Six FRQ*				
33	April 21 (Tu)	*AP Review, Topic Seven FRQ*				
	April 23 (Th)	*AP Review Topic Eight FRQ*				
34	Ap 27 (Mon)	**AP Exam (30 MC, Topics, 1,2,3,7,8)**				
	Apr 29 (Wed)	*AP Review*: Practice Session FRQ 8				
	May 1 Fr)	(2024 AP Exam On-Demand Review)				
AP Exam Monday May 4 (Tue 7:45 am)		**SECTION I**: 60 MULTIPLE CHOICE Questions 1 Hour, 30 Minutes ; 50% of Exam Score **SECTION II**: 6 FREE RESPONSE Questions (FRQs) 1 Hour, 30 Minutes; 50% of Exam Score 2 long & 4 short FRQs				
35	May 5 (Tu)	Male and anatomy		Ch 46 reproduction	30–B1.2k, 1.3k; 2.3k	
	May 7 (Th)	female anatomy	examining gonadal tissue			
36	May 11 (Mon)	Hormonal regulation				

	May 13 (Wed)	Hormonal regulation	case study	Ch 47 animal development	30–B1.4k; 2.1k, 2.2k, 2.3k, 30–B2.2s 2.3s; B3.1k	
	May 15 (Fri)	Fertilization & implantation/development			30–B3.2k, 3.3k, 3.4k	
37	May 20 (Wed)	Development and birth cont'd				
	May 22 (Fr)	*Quiz* Hormonal Control			30–B1.5k (STIs)	
38	May 26 (Tue)	complete reproduction *Birthing video?*				
39	June 2 (Tue)	**Reproduction Exam**				
	June 4 (Th)	**R**eview Diploma Prep				
40	June 8 (Mon)	**R**eview Diploma Prep				
	June 10 (Wed)	Replacement Exam				
Exam Week June 11-						
Diploma Exam June 9:00 AM						