

* PASS 2011 to be tested through 2015-16, OASS will be tested 2016-17

Unit Outline		Timeframe for Each Unit	*Ideal % of Test Items on OCCT
 Unit 0 ➢ Rituals and Routines ➢ Setting up scientific notebook ➢ Science Safety/ Laboratory Equipment ➢ Process Skills/ Science and Engineeri ➢ BSCS Biology: A Human Approach Unitational (Note- Process skills and safety will continue to the set of the s	ng Practices Introduction nit Engage-Being a Scientist	10 Days	P1.0-10% P2.0-12-13% P3.0-27-32% P4.0-33-40% P5.0-13%
 Unit 1 ➢ Evolution: Change in Living Systems (*PASS C3.0) ○ Variation among organisms ○ Natural Selection and biological adaptations ○ Behavior patterns can be used to ensure reproductive success Chapter 1 The Human Animal Chapter 2 Evolution: Change Across Time Chapter 3 Products of Evolution: Unity and Diversity 	ALIGNING OASS TO BE TESTED 2016-17 BIOLOGICAL UNITY AND DIVERSITY (*OASS HS-LS4-1 THROUGH 4-5) DNA EVIDENCE FACTORS OF NATURAL SELECTION FYPES OF NATURAL SELECTION NATURAL SELECTION ENVIRONMENTAL FACTORS THAT EFFECT NATURAL SELECTION	38 Days	21-27%

Biology I Year at a Glance 2015-16

Unit Outline		Timeframe for Each Unit	*Ideal % of Test Items on OCCT
 Unit 2 Homeostasis: Maintaining Dynamic Equilibrium in Living Systems (*PASS-C1.1a- b, 1.3) Cell Structures and Functions Differentiation of Cells Specialized Cells The Molecular Basis of Heredity This unit does not cover 1.1c or 1.2. Provide your own supplemental material. Chapter 4 The Internal Environment of Organisms Chapters 5 & 6 to be covered after EOI 	From Molecules to Organisms (*OASS- HS-LS1-3) ORGANISMS RESPONSE (INTERNAL AND EXTERNAL)	8 Days	21-27%
Unit 3 Energy, Matter, & Organization: Relationships in Living Systems (*PASS C4.1 & 5.1) Organisms both cooperate and	 From Molecules to Organisms (*OASS- HS-LS1-5, 1-6, 1-7, 2-3, 2-4, and 2-5) PHOTOSYNTHESIS HYDROCARBON BACKBONES CELLULAR RESPIRATION SOURCES OF ENERGY PHOTOSYNTHESIS AND CELLULAR RESPIRATION (ANAEROBIC 	22 Days	7-9% C 4.1 7% C 5.1

Biology I Year at a Glance 2015-16

 Complexity and Organization Used for survival Chapter 8 The Cellular Basis of Activity Chapter 9 The Cycling of Matter & the Flow of Energy in Ecosystems 	& AEROBIC) • EFFECT OF PHOTOSYNTHESIS AND CELLULAR RESPIRATION ON CARBON CYCLE		
 *Chapter 7 to be covered after EOI Unit 4 Continuity: Reproduction and Inheritance in Living Systems ➤ The Molecular Basis of Heredity (*PASS C2.0) 	 ALIGNING OASS TO BE TESTED 2016-17 HEREDITY: INHERITANCE AND VARIATION OF TRAITS (*OASS HS-LS 1-1, 3-1, 3-2, & 3-3) GENES (PUNNETT SQUARES, KARYOTYPES, ETC.) MEIOSIS AND MUTATIONS MATH OF PUNNETT SQUARES Transcription and Translation 	24 Days	21-27%

Biology I Year at a Glance 2015-16

Unit 5 Development: Growth and Differentiation in Living Systems ≻ The Cell (*PASS C1.0) ○ Mitosis	 From Molecules to Organisms (*OASS- HS-LS1-4) MITOSIS & DIFFERENTIATION 	8 Days	7-13%
Chapter 13 Processes and Patterns of Development *Chapter 14 to be covered after EOI			
Unit 6 Ecology: Interaction and Interdependence in Living Systems > The Interdependence of Organisms (*PASS C4.1, 4.2) Symbiosis Carrying Capacity Population Dynamics Limiting Factors Chapter 15 Interdependence among Organisms Chapter 16 Decision Making in a Complex World	 Aligning OASS To be tested 2016-17 ECOSYSTEMS: INTERACTIONS, ENERGY, AND DYNAMICS (OASS-HS-LS2-1,2-2,2-6, & 2-8) LIMITING FACTORS OF CARRYING CAPACITY MATH CALCULATIONS OF LIMITING FACTORS ENVIRONMENTAL FACTORS (PRIMARY AND SECONDARY SUCCESSION) POPULATION BEHAVIORS 	21 Days	14-18%

*Chapters to be covered AFTER the EOI: 5, 6, 7, 10, 14