	2 nd examination : Portfolio (take home assignments and/or in class quizzes)	10%
	Final assessment: In-class final examination (2-hour, comprehensive), Multiple choice, short answer, essay questions.	50%
	Formative:	
	Formative relevant assessment to prepare students for the summative assessment.	0
	The midterm examination tests learning outcomes 1-3. The final examination tests all learning outcomes and it is comprehensive.	
	The final grade for this module will be determined to summative assessment grades, based on the predefeach assessment. If students pass the comprehensive tests all Learning Outcomes for this module and the the module is 40 or higher, students are not require assessments.	termined weights for ve assessment that average grade for
INDICATIVE READING:	REQUIRED READING: Alberts B et al, Essential Cell Biology, 6 th Edition, Norton & Company, Inc.	
	RECOMMENDED READING: Other sources, including journal and scientific articles, research papers etc. recommended by the instructor throughout the semester.	
INDICATIVE MATERIAL: (e.g. audiovisual, digital material, etc.)	REQUIRED MATERIAL: N/A	
	RECOMMENDED MATERIAL: N/A	
COMMUNICATION REQUIREMENTS:	Verbal and written skills using academic / professional English	
SOFTWARE REQUIREMENTS:	MS Office and Blackboard CMS	
WWW RESOURCES:	http://www.usd.edu/biol/labs/151/devel51.htm http://www.mcb.harvard.edu/BioLinks.html http://www.nature.com/index.html	
INDICATIVE CONTENT:	 Organization of prokaryotic and eukaryotic cells, origin and evolution of organisms, microscopy, model organisms Chemical components of cell - protein structure, function and control, methods of protein analysis Structure and function of the nucleus Membrane lipid bilayer and membrane proteins Transport across cell membranes Energy generation in mitochondria and chloroplasts 	

	 Intracellular compartments and protein transport Membrane enclosed organelles, vesicular transport, secretory and endocytic pathways Cell signalling, receptors and cell behaviours The cytoskeleton The cell-division cycle Cell communication, extracellular matrix and cell junctions Stem cells and tissue regeneration
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