

## Cell Biology Syllabus

**Course title:** Principles of Genetics and Molecular Biology/ Cell biology section

**Course code:** 0501217

**Credit hours:** 1/3 credit hours

**Calendar description:** 14 lectures / Second semester / Year 2

**Course coordinator for cell biology section:** Dr. Diala Abu Hassan

**Reference textbook:**

The Cell: A Molecular Approach, Geoffrey M. Cooper and Robert E. Hausmann, 6th edition, Sinauer Associates, 2013.

<b>Part II: cellular biology</b>	
Lecture title	Number of lectures
Biomembranes and membrane proteins and lipids	1
Protein sorting and transport, and endoplasmic reticulum	1
The Golgi apparatus and vesicular transport	1
Lysosome, endocytosis, endocytosis, and lysosomal storage diseases	1
Mitochondria and peroxisomes	1
The nucleus	1
The actin cytoskeleton and cell movement	1
Microtubules and intermediate filaments	1
The extracellular matrix	1
Cell signaling	1
The cell cycle	1
Cell proliferation, differentiation, and death	1
Cancer: a cellular perspective	1