

## **BSc in Biochemistry and Cell Biology Program Program Intended Learning Outcomes**

Upon successful completion of the program, students will be able to:

1. Understand and examine in detail the major underlying principles of biochemistry and cell biology and explain the basic concepts and principles of other sciences related to life science. **(Knowledge)**
2. Interpret numerical data and demonstrate proficiency in computing technology for life science and formulate solutions to problems both theoretical and in a practical laboratory setting. **(Execution)**
3. Critically evaluate scientific data and apply scientific methods to analyze, draw conclusions and offer sound arguments to justify a position. **(Judgment)**
4. Effectively communicate scientific concepts to specialists as well as to a lay audience through oral and written presentations. **(Communication)**
5. Work independently as well as collaborate effectively in a team to solve scientific problems. **(Interpersonal Skill & Leadership)**
6. Appraise the history, development and societal impact, both positive and negative, of life science in general and biochemistry and cell biology in particular. **(Appreciation of Science)**
7. Draw on scientific knowledge in developing a principled worldview and apply this to persuading and influencing others through informed discussion of the impact of science, both as a force for progress and as an agent of harm. **(Ethical Practice)**
8. Appreciate the global impact of innovation in communications on science practice. **(International Outlook)**
9. Evaluate personal capabilities and motivation for a scientific career. **(Self-reflection)**