

## **B.S. in Earth System Science**

### **Learning Outcomes**

1. Apply basic sciences (physics, chemistry, mathematics, and biology) to understand the major processes and systems governing the Earth's climate, biogeochemical cycles and global change.
2. Explain the current and projected future state of the Earth system in the context of past climate change and current human activities.
3. Acquire sufficient background knowledge and experience to understand the scientific literature relevant to Earth system science.
4. Understand the methods used to collect and analyze environmental data, interpreting results in the context of underlying theory and the methods used in data collection.
5. Summarize and communicate scientific knowledge in oral and written formats.
6. Work collaboratively to understand and address complex problems related to the Earth system.