PROGRAM OUTCOMES

By the time of graduation, the students of the program shall have the ability to:

- **a** Apply a wide range of skills in mathematics, physical sciences, engineering sciences to the practice of Chemical Engineering;
- **b** Design and conduct experiments as well as to analyze and interpret data
- **c** Design a system, component, or process to meet desired needs within realistic constrains such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability in accordance with standards
- **d** Work effectively as a member and leader in multi-disciplinary and multi-cultural teams
- **e** Formulate and solve chemical engineering problems
- **f** Act in accordance to professional, social and ethical responsibility
  - Apply an in-depth understanding of the impact of engineering solutions in a global, economic, environmental and societal context;
  - Communicate effectively in written and oral forms using both English and Filipino as well as in graphical forms
  - Practice life-long learning and exhibit the willingness and capability to be current and relevant with the developments in the field of Chemical Engineering
  - Apply current trends and developments in the field of Chemical Engineering
- **k** Use appropriate techniques, skills and modern engineering tools for Chemical engineering practice
- **l** Demonstrate a keen awareness of contemporary issues and their impact on the practice of Chemical engineering profession
- **m** Participate in the generation of new knowledge and developmental projects
  - Preserve and promote “Filipino historical and cultural heritage” by showing a deep and principled understanding of how chemical engineering is related to a larger historical, social, cultural, and political processes
- **n** Practice Christian values in their personal and professional endeavors as Louisians in the service of the CICM mission