



# CHEMICAL ENGINEER STUDENT OUTCOMES

## University of Concepción

1. Ability to solve complex problems, within the field of chemical engineering by applying the tools of math, science and principles of engineering.
2. Ability to conceive, design, install and operate industrial processes relevant to chemical engineering and similar disciplines, to create products and solutions by combining the tools of science and technology, as well as economic and environmental evaluation of physical, chemical and biological transformations of matter, while at the same time considering techno-economic, social, ethical and environmental criteria.
3. Ability to communicate effectively in the professional field with a wide range of audiences.
4. Ability to understand social responsibility in the context of professional practice, including economic and environmental impact of engineering in the global society.
5. Ability to function in a team characterized by a collaborative and inclusive environment that formulates and executes a work plan with objectives and goals.
6. Ability to carry out research and detailed studies of technical aspects of the profession by designing and conducting experiments while analyzing and interpreting their results.
7. Ability to acquire and apply new knowledge and thus engage in continuous learning to update and improve professional skills in engineering.
8. Ability to manage human, material and financial resources.

University Campus, May 3<sup>rd</sup> 2019.