

PROGRAM EDUCATIONAL OBJECTIVES

The Industrial Engineer graduated from the Universidad de Talca is expected to be able to:

- (1) Communicate effectively and interact with other professionals by taking leadership roles in multidisciplinary teams.
- (2) Exercise the profession with social responsibility and citizen sense, enhancing the ability to create value from their profession.
- (3) Actively contribute to engineering projects integrating knowledge of basic sciences and disciplinary sciences, using the system approach to offer innovative solutions and solve a problem in different organizational, private and public contexts.
- (4) Contribute to the design, modeling, management and implementation of operational technical solutions that optimize and improve processes and systems in business and social contexts.

STUDENT OUTCOMES

- (1) An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics
- (2) An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors
- (3) An ability to communicate effectively with a range of audiences
- (4) An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts
- (5) An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives
- (6) An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions
- (7) An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.
- (8) An ability to manage operations in conditions of continuous improvement to achieve and maintain efficient and effective operation in any organization,

Student Admissions		Professional Title
Year	N° Students	N° Students
2014	102	65
2015	115	46
2016	108	59
2017	110	58
2018	102	61
2019	101	95
2020	100	67
2021	98	-