PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE
College of Engineering

Major in Software Engineering

I. Program Educational Objectives:

Students finishing successfully the program requirements, obtain the Bachelor of Science in Engineering, with Major in Software Engineering.

The Program Educational Objectives for the Software Engineering (B.Sc.Eng.) are the following:

1. Our graduates will perform in the field of Software Engineering and Computing in a competent and professional manner, demonstrating a thorough knowledge of the underlying principles of software engineering.

2. Our graduates will develop innovative technological projects in Chile and/or abroad, generating solutions to complex systems problems.

3. Our graduates will demonstrate a self-critical spirit and will enrich their performance through professional and/or graduate studies.

4. Our graduates will participate and collaborate in interdisciplinary and diverse teams, and will advance in leadership in the profession.

5. Our graduates will strive to have a positive economic and social impact on society.

PEOs approved by all constituents of the SE Program.
Final promulgation by SE Program Committee on 2020.

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II. **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.

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III. Student Admissions:

Students are initially admitted to a common study program that is the same for any engineering area. As student progress in time, programs differentiate according the engineering area.

Student Admission*	
Year	N° Students
2011	543
2012	553
2013	716
2014	732
2015	719
2016	726
2017	732
2018	740
2019	772
2020	808
2021	827
2022	844
2023	811
2024	819

*Regular Admission (PAES) and Special Admission.

IV. Program enrollment and degree data:

ACADEMIC YEAR	ENROLLMENT YEAR					UNDERGRAD PER COHORT								TOTAL UNDERGRAD
	1st(a)	2nd(b)	3rd	4th	5th+	2013	2014	2015	2016	2017	2018	2019	2020	
2023	67	132	138	151	167	0	0	1	3	3	31	26	8	72
2022	69	105	138	121	176	0	0	1	14	22	25	1		63
2021	22	83	100	95	111	1	0	5	13	27	5			51
2020	43					0	0	2	4					06

Last update March 07th, 2024.

(a) First-year students declare their preference for Major during the first semester.
(b) Second year students formally enroll Major during the first semester.