PONTIFICIA UNIVERSIDAD CATÓLICA DE CHILE
College of Engineering

Major in Robotics Engineering

I. Program Educational Objectives:

Students graduating from the program obtain the Bachelor of Science in Engineering, with Major in Robotics Engineering.

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

1. Our graduates will be systems thinkers with a strong understanding of the fundamental knowledge of engineering sciences, especially of computer science, electrical engineering, mechanical engineering, software engineering and systems engineering.

2. Our graduates will develop practical skills that are required for the application of the fundamental knowledge.

3. Our graduates will apply the theoretical knowledge and practical skills to the design and implementation of robotic systems.

4. Our graduates will be creative and have entrepreneurial skills to respond to the evolving technological, economic and societal challenges.

5. Our graduates will demonstrate professional standards of responsibility, rigorousness and respect.

PEOs approved by all constituents of the RE Program.
Final promulgation by RE Program Committee on 2021.

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.

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
2025	811

*Regular Admission (PAES) and Special Admission.

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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	2021	
2024	27	27	24	36	17	0	0	0	0	0	2	10	9	2	23
2023	32	31	37	21	24	0	0	0	1	1	2	2	1		7
2022	22	32	24	25	15	0	0	1	3	2	4	1			11
2021	31	23	26	15	33	1	0	2	6	3	3				15
2020	28	22	18	12	31	1	0	2	5	1					9
2019	24	18	10	19	24	1	4	3	1						9
2018	16	11	20	10	26	4	1								5
2017	15	19	16	11	26	9	1								10
2016	30	15	11	29		2									2
2015	18	10	26												
2014	17	27													
2013	21														

Last update June 23rd, 2025.

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