

Dear members of the evaluation comitee,

Since I have not yet finished my 6 year Mechanical Engineering Degree, I cannot attach my diploma to my aplication. But, in order to prove that I have no courses left and I am solely finishing my thesis, I attach in the following my 'Plan de Carrera de Ciclo Superior', or 'Higher Cycle Carrer Plan', translated to english for better understanding.

## **Faculty of Engineering**

UNIVERSITY OF BUENOS AIRES

# HIGHER CYCLE CAREER PLAN

Student:

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Academic Supervisor:

Dr. Ing. Otero, Alejandro Daniel

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### Student Information:

Name and Surname	Juan Ignacio Teich
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Working	Yes
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Activity	Numeric Simulations
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Signature

### Academic Supervisor Information:

Name and Surname	Alejandro Daniel Otero
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## Professional Profile

Mechanical Engineer with orientation towards numeric simulation. The elective courses were chosen due to my interest in the previously mentioned orientation, carrying out all possible courses: *Introduction to the Finite Element Method*, *Introduction to Tensorial Analysis*, *Continuum Mechanics*, *Advanced Finite Elements* and *Advanced Finite Elements in Fluid Mechanics*. These courses, alongside *Fluid Mechanics* will be the key for the development of the Mechanical Engineering Thesis.

On the other side, I complemented my profile with courses with varied orientations in order to have a more rounded profile. I attended *Machine Elements* and *Ferrous Materials and their Applications* to further improve my mechanic design abilities. I attended *Heat and Mass Transfer* and *Combustion* to further improve my thermomechanic oriented abilities. And finally I attended *Probability and Statistics*.

### Ciclo Básico Común (CBC) Detail

Course	Grade	Year	Semester
CALCULUS A (CBC66)	9	2017	1
INTRO. TO SOCIETY AND STATE KNOWLEDGE (CBC24)	9	2017	1
CHEMISTRY (CBC05)	9	2017	1
ALGEBRA A (CBC62)	9	2017	2
PHYSICS (CBC03)	10	2017	2
INTRO. TO SCIENTIFIC THINKING (CBC40)	7	2017	2

### Mechanical Engineering (FIUBA) Detail

#### Completed Compulsive Courses

Code	Course	Credits	Grade	Year	Semester
6103	CALCULUS II A	8	8	2018	1
6201	PHYSICS I A	8	8	2018	1
6108	ALGEBRA II A	8	6	2018	1
6203	PHYSICS II A	8	8	2018	2
7501	COMPUTER SCIENCE	4	8	2018	2
6301	CHEMISTRY	6	8	2018	2
6702	REPRESENTATION METHODS B	6	6	2019	2
6113	CALCULUS III C	4	7	2019	2
6411	STABILITY I B	6	6	2019	1
6206	MECHANICS I	6	5	2019	1
7512	NUMERIC ANALYSIS I	6	7	2019	1
6707	MECHANICAL DRAWING	2	5	2019	1
6713	MATERIALS KNOWLEDGE I	6	8	2019	1
6714	MATERIALS KNOWLEDGE II	4	8	2019	2
6704	TERMODYNAMICS I A	8	10	2020	2
6711	MECHANISMS A	4	5	2020	2
6412	STABILITY II B	8	7	2020	1
6715	MECHANIC TECHNOLOGY I	6	6	2020	1
6716	INDUSTRIAL TESTS	4	7	2021	2
6413	STABILITY III B	6	10	2021	2
6718	FLUID MECHANICS B	6	7	2021	2
6717	MECHANICS WORKSHOP	4	8	2021	2
6504	GENERAL ELECTRICAL ENGINEERING B	6	8	2021	2
6603	GENERAL ELECTRONICS	4	9	2021	1
6721	PHYSICAL AND MECHANICAL MEASUREMENTS	4	7	2021	1
6719	ALTERNATIVE MACHINES	6	8	2021	1
6506	ELECTRICAL MACHINES	6	7	2022	2
6722	CONTROL SYSTEMS	4	6	2022	1
6720	TURBOMACHINERY	6	5	2022	1
7705	ENVIRONMENTAL ENGINEERING	4	8	2023	2
7125	LEG. Y PROF. EX. OF MECHANICAL ENGINEERING	2	5	2023	2
6724	INDUSTRIAL INSTALLATIONS PROJECT	6	7	2023	2
6723	ENERGY TRANSFORMATION	2	7	2023	1
6728	HYDRAULIC AND PNEUMATIC SYSTEMS	4	7	2023	1
7701	OCCUPATIONAL HEALTH AND SAFETY	4	8	2023	1

7101	INTRO. TO ECONOMICS	4	9	2023	1
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### Completed Elective Courses

Code	Course	Credits	Grade	Year	Semester
6106	PROBABILITY AND STATISTICS	4	9	2020	1
6730	COMBUSTION	4	7	2021	2
6750	FERROUS MATERIALS AND THEIR USE	4	8	2021	2
6758	INTR. TO THE FINITE ELEMENT METHOD	6	10	2021	1
6760	INTRODUCTION TO TENSORIAL ANALYSIS	4	9	2021	1
6731	HEAT AND MASS TRANSFER	4	9	2022	2
6725	MACHINE ELEMENTS	8	6	2022	2
6759	CONTINUUM MECHANICS	6	10	2022	2
6757	ADVANCED FINITE ELEMENTS IN FLUID MECHANICS	6	8	2022	1
6762	ADVANCED FINITE ELEMENTS	6	10	2022	1

### Compulsive Courses Remaining

Code	Course	Credits	Year	Semester

### Elective Courses Remaining

Code	Course	Credits	Year	Semester

### Credits Distribution Summary at end of Degree

	Credits
Compulsive Courses	190
Elective Courses	52
Extra Curricular Credits	0
Thesis	18
<b>Total</b>	<b>260</b>

Academic Supervisor Signature  
Alejandro Otero

Student Signature  
Juan Ignacio Teich (102247)