



Master's Degree in Aerospace Engineering

*Info session
for 2nd year students cohort*

Forlì, September 26th 2019

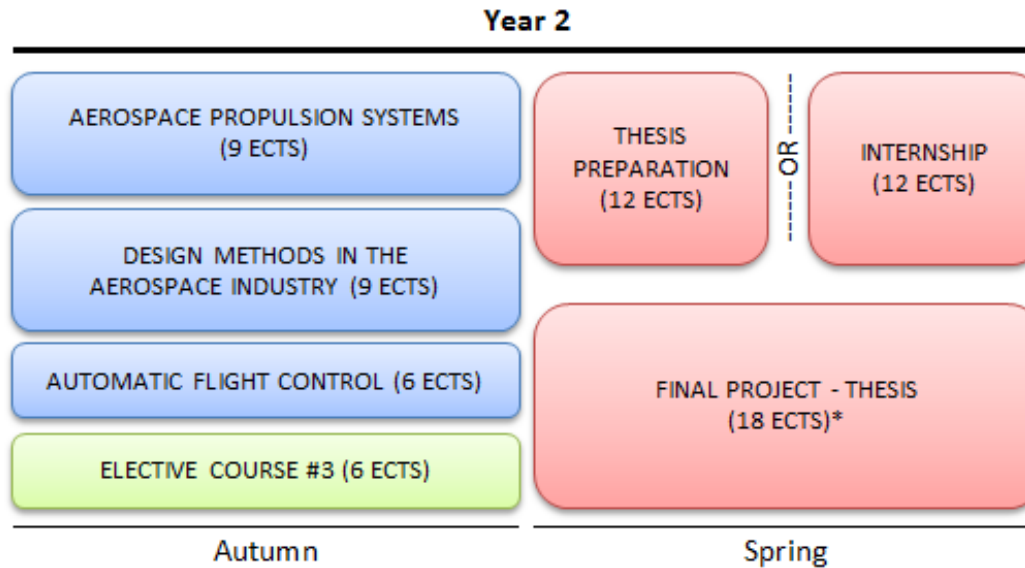


Summary

- Welcome back
- Elective exams and study plan
- Activities of the 12 CFU guided choice: Internship and Thesis preparation
- Health and Safety in the Workplace Training
- Funds opportunities, companies and institutions
- Final project and Major Master's thesis
- Loss of student status
- Upcoming events



Master's Degree Programme content



* STUDENTS CAN CHOOSE AMONG:

- STANDARD THESIS
- MAJOR MASTER THESIS



Elective exams

Second Year

Compulsory Courses

		PERIOD ?	TYPE ?	SSD ?	CFU ?
73348	<u>Aerospace Propulsion Systems</u>	1	B	ING-IND/07	9
73192	<u>Automatic Flight Control</u>	1	C	ING-INF/04	6
73194	<u>Design Methods in the Aerospace Industry</u>	1	B	ING-IND/15	9
30800	Final Project	1	E		18

Elective Courses for 6 cfu (6 CFU)

The student can select among the courses listed below and / or other courses that might be included in the list of elective modules.

		PERIOD ?	TYPE ?	SSD ?	CFU ?
73205	<u>Aerospace Technologies and Materials</u>	1	D	ING-IND/04	6
73208	<u>Spacecraft Attitude Dynamics and Control</u>	1	D	ING-IND/05	6
77956	<u>Spacecraft Subsystems and Space Mission Design</u>	1	D	ING-IND/05	6

Elective Courses of the guided choice for 12 cfu (12 CFU)

		PERIOD ?	TYPE ?	CFU ?
71137	Internship	1	F	12
85319	Internship Abroad	1	F	12
73195	Thesis Preparation	1	F	12
86100	Thesis Preparation Abroad	1	F	12



Study plan for a.y. 2019/2020

To be submitted online on <https://studenti.unibo.it>

The application can be made:

First period: **from October 21st 2019 to November 18th 2019**

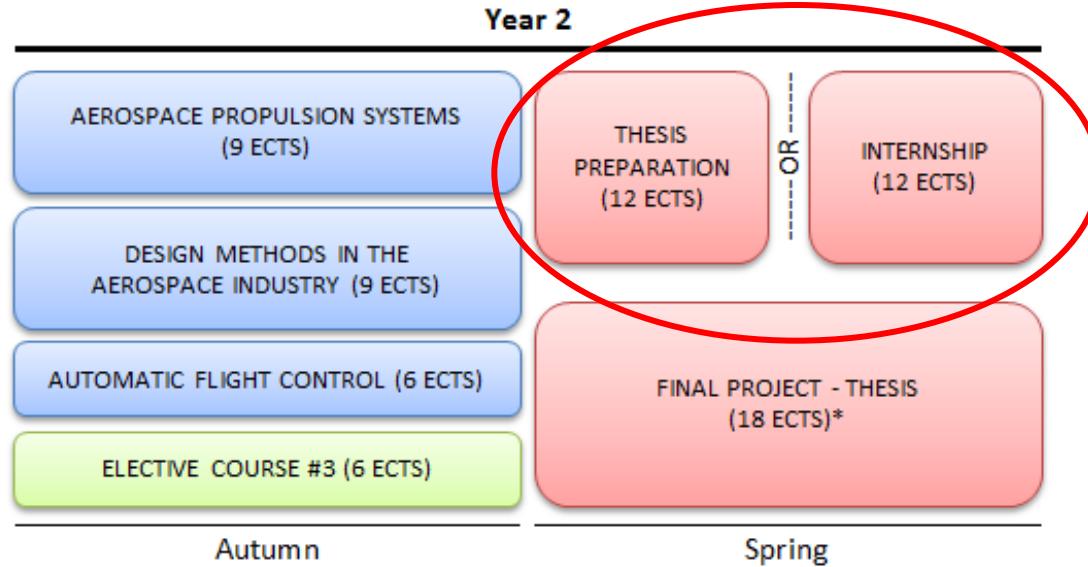
Second period: **from February 10th 2020 to March 9th 2020**

Please note: in order to complete the study plan students must not have pending tuition fees and have a valid permit of stay

NO EXCEPTIONS ARE ALLOWED



Thesis preparation and Internship



* STUDENTS CAN CHOOSE AMONG:

- STANDARD THESIS
- MAJOR MASTER THESIS



Internship

The curriculum internship is designed for students regularly enrolled on the 2nd year of the programme and want to spend **a period of vocational training**. To do this with an organization having an agreement with the University or in one of the University labs, students must be authorized by their degree programme Internship Committee.

- The period of internship must be spent with companies or organizations enjoying an agreement with the University (external internship) or in one of the labs of the School of Engineering of Forlì (internal internship). In both case, student will choose an academic tutor (professor) and if the internship is carried out in a company, the student must point out a company contact person.
- If students choose to do an internal internship, they must directly contact their professor/academic tutor.



Internship

If the company chosen by the student does not have an agreement with the University, **an agreement must be signed before the start of the internship.**

The steps required to open an agreement and activate the internship are described in the specific page:

<https://corsi.unibo.it/2cycle/AerospaceEngineering/curricular-internships-and-dissertation-related-internships>

The internship is managed through the internship online platform; all instructions are available here:

<https://tirocini.unibo.it/tirocini/studenti/homePageStudenti.htm>

Handbooks and regulations can be found at:

<https://corsi.unibo.it/2cycle/AerospaceEngineering/curricular-internships-and-dissertation-related-internships>



Internship

At the end of the activity, for the recognition of the credits in the student career, students must:

- Upload the attendance register (please check that it has been completed with the necessary signatures and stamp);
- Write down and upload a Final Report (no more than 15 pages);
- Fill in the online questionnaire;

Contact person for engineering degrees: Rosita Gabelli
accf.forlitirociniplacement@unibo.it

Office hours: Tuesday, Wednesday, Friday 9.00 -11.00
Tuesday 13.00 -14.00

Ph. 0543 374135 (students line: Monday, Tuesday, Wednesday, Friday 11.00-13.00)



Internship

Keep in mind that:

- The student must have already chosen the activity in his/her study plan at the moment of the request; he/she will have to wait the specific period for the study plan submission/change if he/she needs/want to change the 12 CFU activity.
- The internship cannot last 20% more than the scheduled time (300 hours)
- The Internship and the Thesis Preparation Committees meets every 1st Monday of the month
- The intership cannot begin before receiving the attendance book. This will be received about a week after the Internship Committee approval
- The internship must be completed within 12 months from the starting date.



Thesis Preparation

The Thesis Preparation course unit is aimed to those students regularly enrolled on the 2nd year of the programme who are interested in carrying out a **wider research project or investigation**; that can be achieved by obtaining 12 CFU/ECTS from the Thesis Preparation activities and 18 CFU/ECTS from the Final Project.

The overall student work corresponds to the involvement in a **8 month full-time period of research project** (about a quarter of the official duration of the Master's degree), resulting in the recognition of a quarter of the Master's degree total CFU/ECTS.

Requesting students must have passed **9 out of 12 courses** planned in their study plan. The student transcript must be submitted together with the request form at the time of thesis preparation request.



Thesis Preparation

The expected individual workload is a 2 month full-time period (from 300 to 350 hours). Each student will nominate an academic tutor (**either professor or adjunct professor**), who will also necessarily supervise the Thesis for the Final Examination.

The regulations, the request form and the recognition form are available at:
<http://corsi.unibo.it/2cycle/AerospaceEngineering/Pages/thesis-preparation.aspx>

Students must read the regulations carefully.

At the end of the activity, students must submit the attendance book, assessment of the academic tutor and a **written research report** describing the activities carried out for the expansion of their knowledge.

The Thesis preparation Committee meets every 1st Monday of the month.



12 CFU guided choice activities

	Internship	Thesis Preparation
No. of CFU required for application	No min. CFU	60 ECTS
No. of hours	300	300-350
Type of activity	Vocational training in a Company or university lab	In-depth bibliographic research and individual study
Where	university lab or company	university lab or company
Procedure	Internship online platform	Specific modules and deadlines



Internship/ thesis preparation abroad

Students may select one of these activities in case they decide to spend a period abroad for internship or thesis preparation.

The activity can be swapped after the study plan completion. This is the only exception allowed and can be made by office staff.



Recongnition of work experience in lieu of the internship/thesis preparation

Work experience may be recognised in lieu of doing a curriculum internship or thesis preparation (according to the student's study plan), if it is **deemed appropriate** to the degree programme learning objectives, is certified according to law and meets the requirements set by the degree programme board.

Requirements:

- the work experience done **no more than 2 years prior to the date of application**;
- role accepted: **professional aeronautical-space engineer**

To have taken part in training courses is not deemed equivalent to internship training, nor is any form of teaching support role in schools or training institutes of any kind.

The application form can be found at:

<https://corsi.unibo.it/2cycle/AerospaceEngineering/curricular-internships-and-dissertation-related-internships>



Health and Safety in the Workplace Training

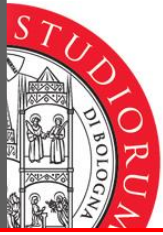
All the students with an internship activity in his/her study plan, are requested to do a mandatory **general training**.

All the students enrolled on the Aerospace Engineering course, having an activity carried out in a high/medium risk laboratory in his/her study plan, are requested to do a mandatory **specific training**.

There isn't an order for carrying out the training. The general training is permanent and can be spent in any company. The specific training has a 5-year validity. It can be recognised or not by future company according to the specific type of activity that the company deals with.

More information on <https://corsi.unibo.it/2cycle/AerospaceEngineering/health-and-safety-in-workplaces>

If you have any questions, please write to veronica.rossi5@unibo.it



Contacts

For all the procedures regarding thesis preparation, thesis and major master's thesis, please contact the

Engineering Degree Teaching office

didatticaforli.ingstudenti@unibo.it

For the internship and dissertation-related internship, the procedures are managed by the

Internship and Placement office of Forlì Campus

Contact person for engineering school: Rosita Gabelli

accf.forlitirociniplacement@unibo.it

Ph. +39 0543 374135



Funds opportunities for internship and thesis preparation abroad

Erasmus+ mobility for trainship

You can spend from 2 to 12 months in a European-based company/institution/university and get funds from the EU for up to 3 months. The Call is published **in springtime**.

Interested students must contact a EU company/institution/university, design a project draft and apply online by the set deadline.

If selected, students can carry out the internship starting from September up to June (and must be finished by the following September).

The internship will be recognised in the student study plan.

Find out more at <https://www.unibo.it/en/international/internship-abroad/erasmus-mobility-for-traineeship/erasmus-mobility-for-traineeships-what-is-it-and-how-to-apply/erasmus-mobility-for-traineeships-what-is-it-and-how-to-apply>



Funds opportunities for internship and thesis preparation abroad

Study grants for research period abroad

The Engineering Degree teaching office allocates funds for those approaching graduation who would like to spend a short period abroad as preparation for their degree dissertation (up to 6 months).

To apply, students must submit a proposal drafted with the supervisor at the hosting institution. If selected, they will be allocated a grant depending on duration and destination of the proposal.

Calls for applications in spring and autumn published on <https://bandi.unibo.it/agevolazioni/borse-mobilita>

Next called expected for mid-October.



Funds opportunities for internship and thesis preparation abroad

Erasmus+ mobility for studies

You can spend a period abroad in one of the partner universities also for thesis or internship activities.

The Call is generally published in January. Students should check among the possible European universities with a B.A. with our study course and apply to one which also offers internship and/or thesis preparation.

If selected, students will receive a grant depending on destination and duration.

Please check the offers available and read the Call for applications carefully at:
<https://www.unibo.it/en/international/Studying-abroad/General-information-on-Erasmus/Programme-requirements-and-destinations>



Companies and institutions

Students should speak in advance with the professors of the area/field of interest for guidance and advice for any of these activities and funds opportunities.

These are some of the companies and institutions that hosted or even employed some of our past students:

Eumetsat

Avio

Dallara

Riba Composites

Piaggio Aeronautica

GarradHassan Italia

Helicopters Italia

Curti Spa

Lamborghini

Airbus

Rolls Royce

AgustaWestland-

Leonardo

Thales Alenia

Royal Melbourne Institute
of Technology

A list companies with vacancies and graduate scheme can be found at this [page:](http://www.esa.int/About_Us/Careers_at_ESA/Student_Internships2)
[http://www.esa.int/About Us/Careers at ESA/Student Internships2](http://www.esa.int/About_Us/Careers_at_ESA/Student_Internships2)
[http://www.esa.int/About Us/Careers at ESA/Graduates Young Graduate Trainees](http://www.esa.int/About_Us/Careers_at_ESA/Graduates_Young_Graduate_Trainees)



Final Project (Thesis) 18 ECTS

The Final project (thesis) is **an individual project** carried out by the students and that must be submitted and discussed during graduation day in order to obtain the 18 ECTS and the completion of the degree.

The Aerospace Engineering degree programme admits, for the Final project, the differentiation between '**Standard Thesis**' and '**Major Master's Thesis**'.

The difference involves the contents, developed more deeply in the 'Major Master's Thesis', the temporal commitment, which is estimated in 6 months full-time for the 'Major Master's Thesis', and the different evaluation of the theses themselves, since the 'Major Master's Thesis' also requires the assignment of an Examiner.

<https://corsi.unibo.it/2cycle/AerospaceEngineering/master-thesis>



Major Master's Thesis

	Standard Thesis	Major Master's Thesis
Application to the Final project	According to the Final examination regulations	At least 3 months in advance before the scheduled graduation date
Thesis submission	According to the Final examination regulations	At least 3 weeks before the scheduled graduation date
Duration	At least 2 months	6 months
Points to be assigned to the Thesis	0 to 4	0 to 7
Examiner	No	Yes



Final Examination and Graduation

The final examination consists in writing a dissertation on a subject pertinent to your studies, elaborated in an original way, under the guidance of a supervisor. The dissertation will be discussed publicly during a specific final examination session in front of a Board.

The Board will assess your performance using your curriculum as a reference. During the dissertation discussion, you may use slides and the Commission may ask you in-depth questions on methods, results and any developments of your work

All details and regulations are available at the dedicated page:

<https://corsi.unibo.it/2cycle/AerospaceEngineering/final-examination>



Loss of student status

Article 19 of the Student Regulation of Alma Mater Studiorum – Università di Bologna governs the loss of student status.

If you do not obtain all the credits envisaged in your study plan by the established deadlines, you will lose your student status.

If you enrolled in a Second cycle degree programme from the 2017/18 academic year, you will lose your student status after 5 academic years from your first matriculation.

In all cases, student status is lost if, at the end of the second academic year of the programme (31 March), you have not obtained at least 48 University educational credits.

- the academic year ends on 31/3 of the year following that of enrolment. For example, if your student status will be lost in the 2018/19 academic year, the end of the academic year (and therefore the loss-of-status year) is 31/03/2020;
- if you only need to sit the final examination, your student status is never lost regardless of the regulations governing your degree programme;
- the payment of tuition fees does not change the deadlines for the loss of student status;
- the credits/exams needed to interrupt the loss of student status must be properly recorded;

If you have lost your student status and intend to start a new University career at the University of Bologna, you must enrol again in the first year of a degree programme.

<https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/returning-to-and-interrupting-studies/loss-of-student-status>

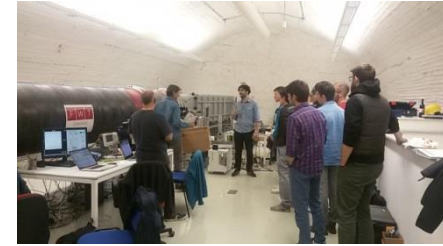
Upcoming events

European Researchers Night

<http://nottedeiricercatori-society.eu/>

September 27th- Predappio (Forlì)

Visit of the Caproni tunnel where the CICLoPE (Centre for International Cooperation in Long Pipe Experiments) is located.
Presentations, music and food.





Aerodynamics Symposium

<https://www.euroaviaforlibologna.eu/>

5-9 November 2019



EUROAVIA FORLI'-BOLOGNA
AERODYNAMICS SYMPOSIUM
5-9 NOVEMBER 2019

Questions?





ALMA MATER STUDIORUM
UNIVERSITÀ DI BOLOGNA
CAMPUS DI FORLÌ

Thank you!

www.unibo.it/AerospaceEngineering