



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

# Master's degree in Aerospace Engineering

**Thursday, September 15<sup>th</sup> 2022**

**School of Engineering- Forlì Campus**

Department of Industrial Engineering

Via Montaspro, 97 Forlì

# Welcome Day – Master's degree in Aerospace Engineering

- 09.15 Opening greetings
- 09.25 Master's Degree presentation
- 10.45 Coffee break
- 11.15 Extra-curricular activities presentation
- 12.30 Event ending



# Welcome greetings

Prof. Emanuele Menegatti  
President of Forlì Campus



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

CAMPUS DI FORLÌ



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

# Welcome greetings

Prof. Fabrizio Giulietti

Degree Director

Aerospace engineering degrees in Forlì

DIPARTIMENTO DI  
INGEGNERIA INDUSTRIALE - DIN



# Master's degree in Aerospace Engineering

## Who are we?

Laurea Magistrale

Master's Degree

2° cycle degree

The Master's Degree in Aerospace Engineering takes students on to a career in the aerospace and high tech industries or research.

Graduates from the programme may work with aerospace, marine, mechanical and automotive industries, including those dedicated the production of wind energy. Airlines and government agencies for Air Traffic Control are also among the possible employments.

Graduates in the space sector may find jobs with national or international space agencies. Graduate students can also access PhD and other post-graduate research degrees.



# The University of Bologna is member of the PEGASUS Network



PEGASUS is the partnership of the best European aerospace universities and currently has 28 members in 11 different European countries.

Graduates from the University of Bologna will receive:

- a European certificate;
- an award in recognition of an individual student's multi-national experience.



# Master's degree in Aerospace Engineering

DIN – Department of Industrial Engineering

School of Engineering

Forlì Campus

DIN offers courses in:

- Aerospace Engineering
- Mechanical Engineering

*In Forlì*



# Aerospace Engineering Degree: Structure

## Aerospace Engineering

**1<sup>st</sup> Level**  
**Bachelor's Degree (Laurea)**

**3 years**

**180 CFU**

**20 exams**

**2<sup>nd</sup> Level**  
**Master's Degree**  
**(Laurea Magistrale)**

**In English**

**2 years**

**120 CFU**

**12 exams**





# Master's Degree in Aerospace Engineering: Structure

Starting from A.A. 2020/2021 the Master's Degree offers

**2 curricula**

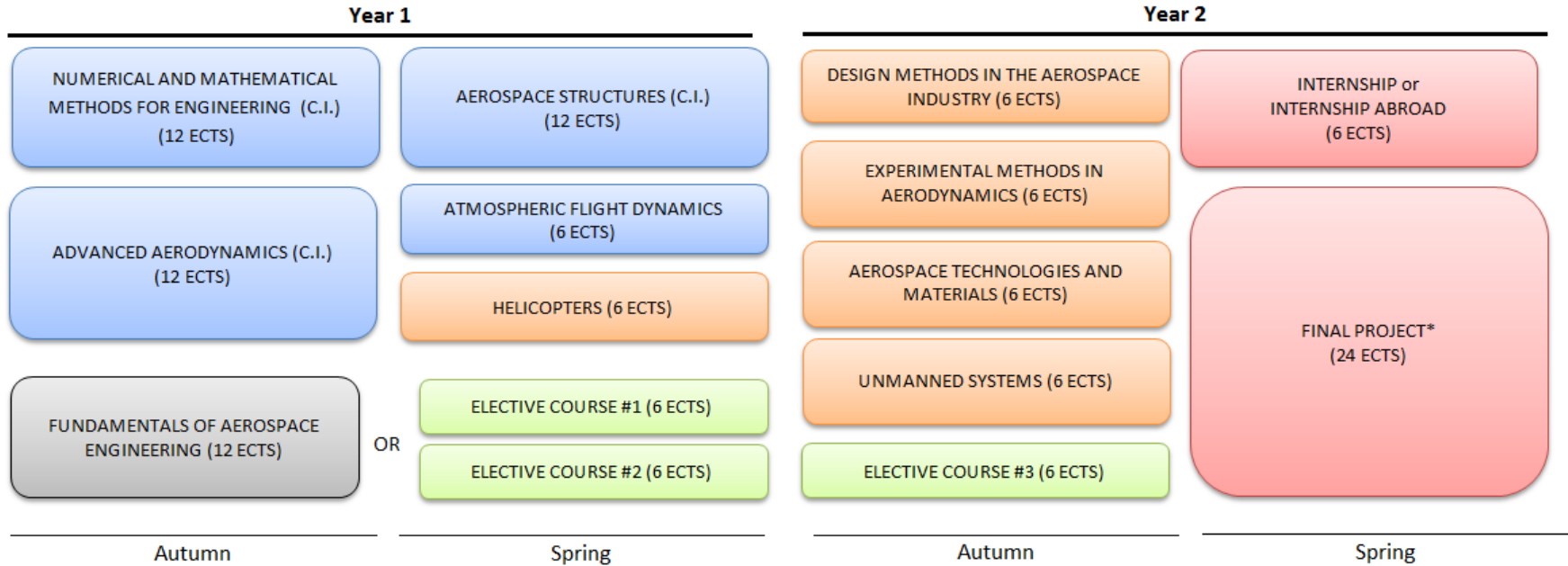


**Aeronautics**

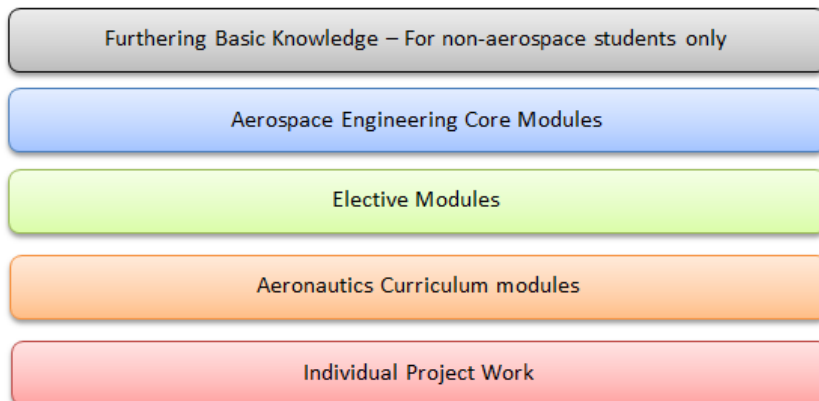
**Space**



# Master's degree in Aerospace Engineering: curriculum Aeronautics



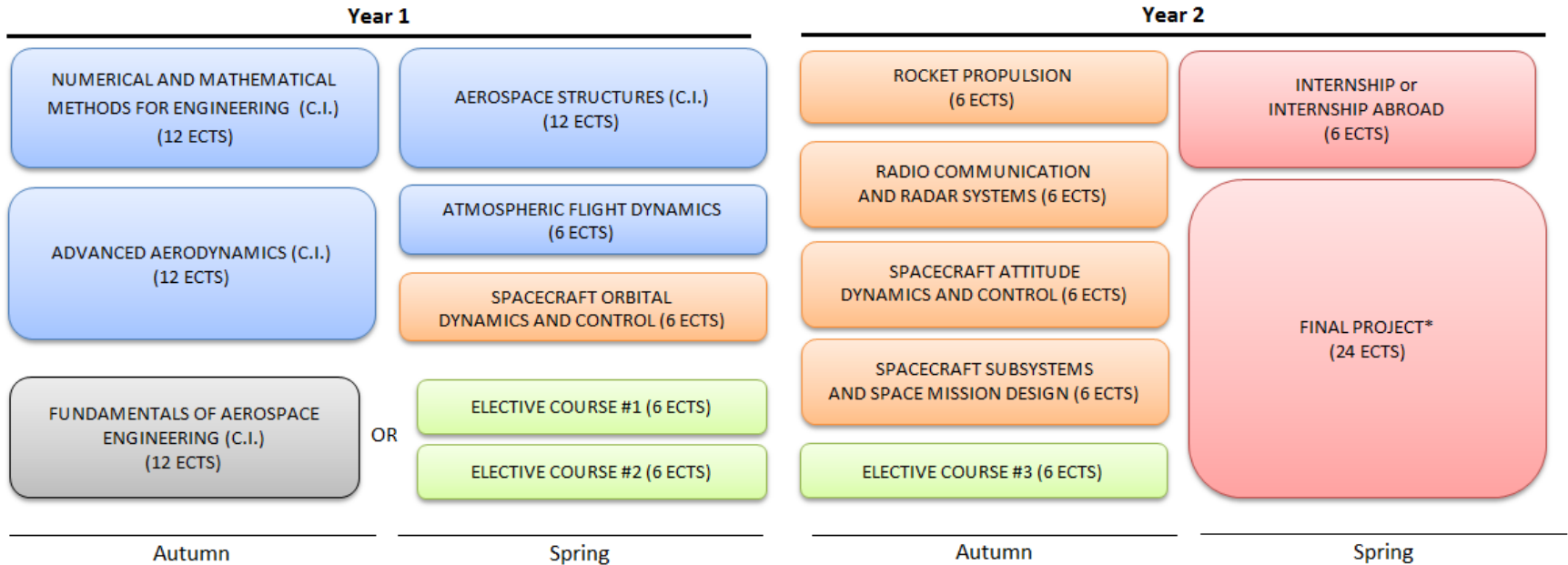
## Key:



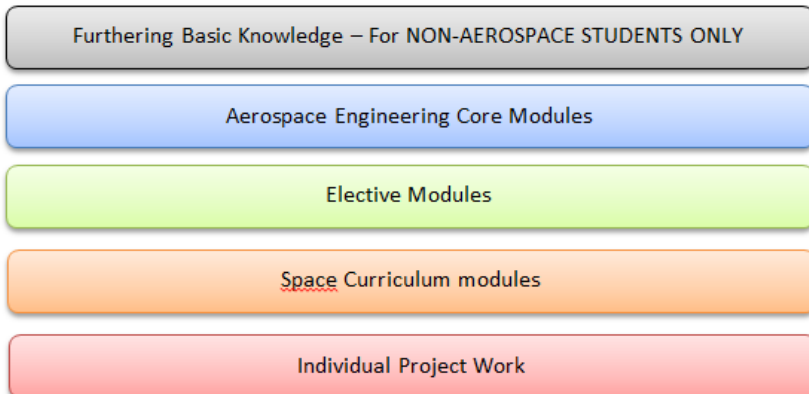
\*The FINAL PROJECT can be made up of different activities:

- FINAL PROJECT (24 ECTS)
- INTERNSHIP (18 ECTS) + FINAL PROJECT (6 ECTS)
- INTERNSHIP ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)
- THESIS PREPARATION ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)

# Master's degree in Aerospace Engineering: curriculum Space



**Key:**



\*The FINAL PROJECT can be made up of different activities:

- FINAL PROJECT (24 ECTS)
- INTERNSHIP (18 ECTS) + FINAL PROJECT (6 ECTS)
- INTERNSHIP ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)
- THESIS PREPARATION ABROAD (18 ECTS) + FINAL PROJECT (16 ECTS)

# Fundamentals of Aerospace Engineering

***Fundamentals of Aerospace Engineering I.C.*** is exclusively reserved to students who achieved less than 24 ECTS in the scientific disciplinary sectors ING/IND-03, ING/IND-04, ING/IND-05, ING/IND-06, ING/IND-07 (or equivalent if obtained abroad) in the previous university career. These students are notified during selection and admission procedures.

FLIGHT MECHANICS (3 ECTS)

FUNDAMENTALS OF AERODYNAMICS  
(3 ECTS)

FUNDAMENTALS OF AIRCRAFT DESIGN  
(3 ECTS)

PRINCIPLES OF AEROSPACE  
PROPULSION (3 ECTS)



# Master's degree in Aerospace Engineering: Elective teaching activities

## Elective modules #1 and #2 – Spring

SIMULATION AND MODELING IN  
FLUID DYNAMICS (6 ECTS)

HELICOPTERS (6 ECTS)

SPACECRAFT ORBITAL  
DYNAMICS AND CONTROL (6 ECTS)

FUNDAMENTALS OF  
ASTROPHYSICS (6 ECTS) – TAUGHT IN  
BOLOGNA

MATERIALS CHEMISTRY (6 ECTS)

## Elective modules #3 – Autumn

ROCKET PROPULSION  
(6 ECTS)

RADIO COMMUNICATION  
AND RADAR SYSTEMS (6 ECTS)

SPACECRAFT ATTITUDE  
DYNAMICS AND CONTROL (6 ECTS)

SPACECRAFT SUBSYSTEMS  
AND SPACE MISSION DESIGN (6 ECTS)

ADVANCED GUIDANCE AND CONTROL  
OF AIRCRAFT AND SPACECRAFT (6 ECTS)

DESIGN METHODS IN THE AEROSPACE  
INDUSTRY (6 ECTS)

EXPERIMENTAL METHODS IN  
AERODYNAMICS (6 ECTS)

AEROSPACE TECHNOLOGIES AND  
MATERIALS (6 ECTS)

UNMANNED SYSTEMS (6 ECTS)



# Master's degree in Aerospace Engineering: Internship and Final Thesis

INTERNSHIP or  
INTERNSHIP ABROAD  
(6 ECTS)

FINAL PROJECT\*  
(24 ECTS)

\*The FINAL PROJECT can be made up of different activities:

-FINAL PROJECT (24 ECTS) **or**

-INTERNSHIP (18 ECTS) + FINAL PROJECT (6 ECTS)


-INTERNSHIP ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)

-THESIS PREPARATION ABROAD (18 ECTS) + FINAL PROJECT (6 ECTS)



# IMPORTANT

Integrated activity I.C. -> all the modules forming the integrated activity must be sat and passed in order to register the mark.

 Be careful for any scholarships or fee exemption requiring a minimum number of credits

Only exception-> Erasmus exchange students



# **Master's Degree in Aerospace Engineering**

## **Some Teaching Activities**

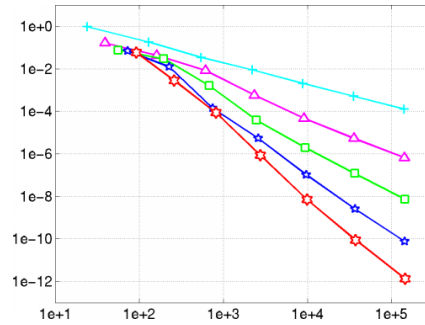
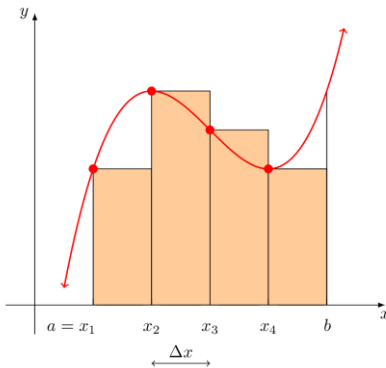




# 37261 – NUMERICAL ANALYSIS

1<sup>st</sup> year - fall semester

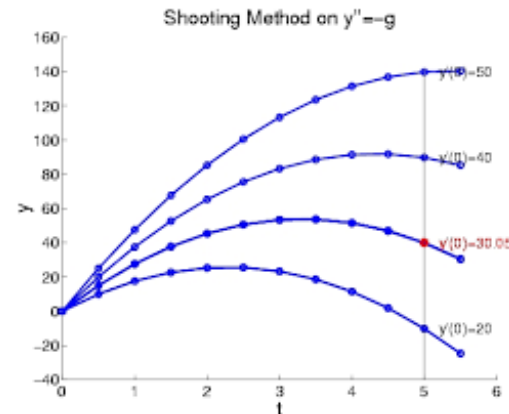
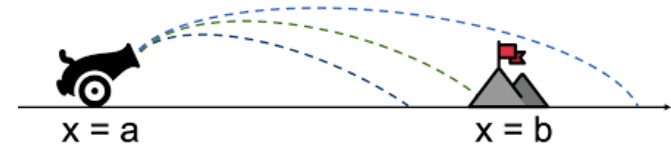
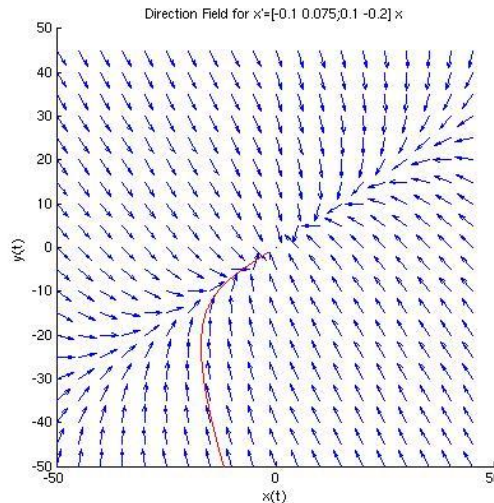
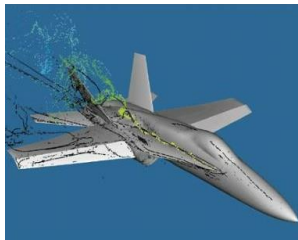
How to solve mathematical problems that cannot be solved exactly?



Approximate integrals and derivatives

➔ Analysis of error behaviours

Approximate solutions of ODEs

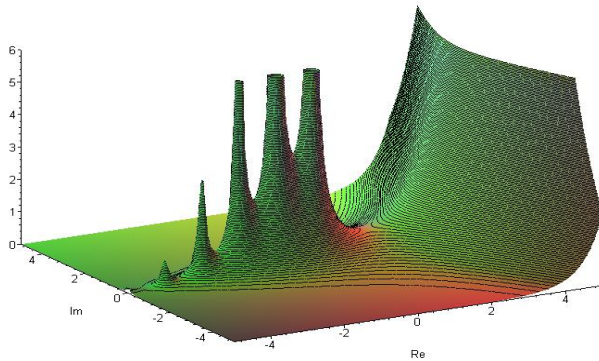


lucia.romani@unibo.it



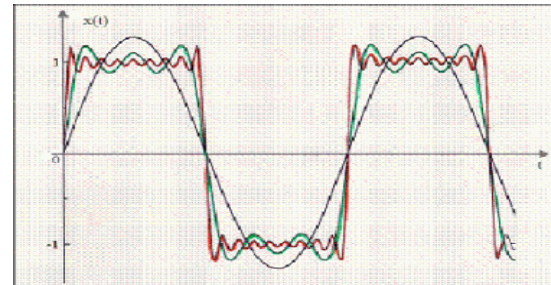
# 35143 – MATHEMATICAL METHODS FOR ENGINEERING

1<sup>st</sup> year - fall semester



← **Complex Analysis:** application to real integrals and evaluation of singularities

**Fourier Analysis:**  
approximation of signals



← **Probability**

[matteo.franca4@unibo.it](mailto:matteo.franca4@unibo.it)



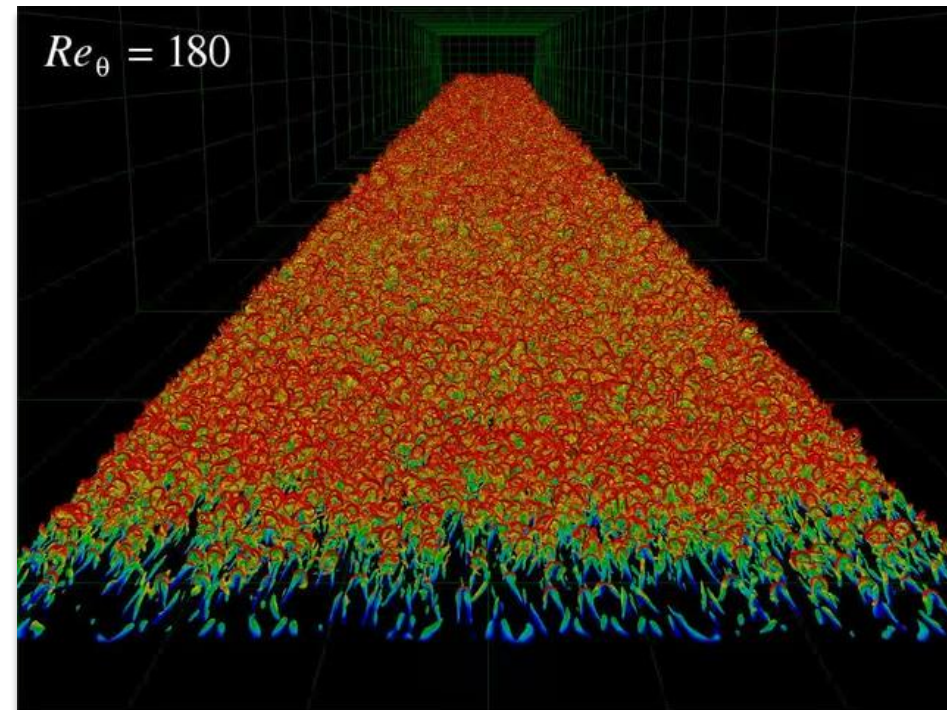
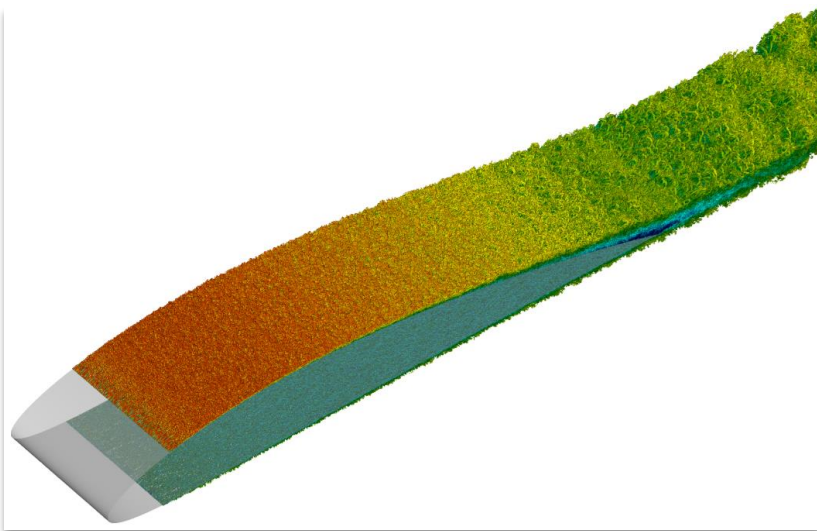
# 93750 - Flow Stability And Turbulence

1<sup>st</sup> year - autumn semester

Viscous flow solutions

Hydrodynamic instability and transition

Turbulence



# 93847 - Fatigue and Damage Tolerance

1<sup>st</sup> year - spring semester



Fatigue life assessment  
Fatigue damage growth prediction  
Residual strength of structures

[r.c.alderliesten@tudelft.nl](mailto:r.c.alderliesten@tudelft.nl) / [j.a.pascoe@tudelft.nl](mailto:j.a.pascoe@tudelft.nl)





# 93848 - ATMOSPHERIC FLIGHT DYNAMICS

1<sup>st</sup> year - spring semester



Fixed wing aircraft dynamics

Flight simulation

Flight control system design

[fabrizio.giulietti@unibo.it](mailto:fabrizio.giulietti@unibo.it)



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

# 73202 - SPACECRAFT ORBITAL DYNAMICS AND CONTROL

1<sup>st</sup> year - spring semester



- orbital dynamics of an artificial satellite, including interplanetary trajectories.
- strategies for orbital maintenance, rendezvous, injection into an interplanetary trajectory and around a target planet.
- Hands-on activities on trajectory optimization and orbit determination with Python

[m.zannoni@unibo.it](mailto:m.zannoni@unibo.it)



# 93849 - HELICOPTERS

1<sup>st</sup> year - spring semester



## Part 1

Hovering helicopter

Vertical flight

Forward flight

[sven.vanwilder@unibo.it](mailto:sven.vanwilder@unibo.it)

## Part 2

Rotor flapping characteristics

Trim & Static stability

Design considerations

[elmargustav.recker@unibo.it](mailto:elmargustav.recker@unibo.it)



# 73369 – Materials Chemistry

1<sup>st</sup> year - second semester

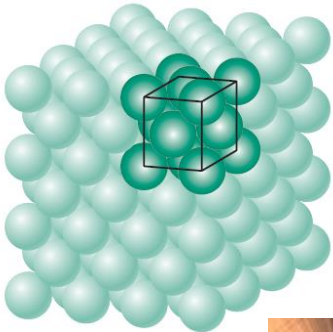
For the different classes of materials a focus on the relationships between:

✓ nature of atoms, chemical bonds, structure, morphology

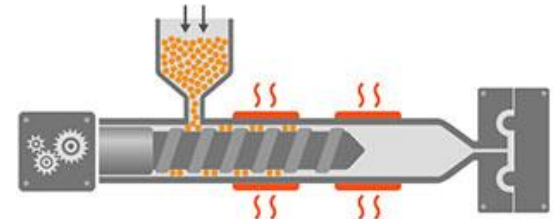
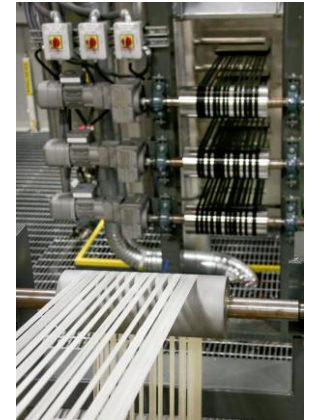
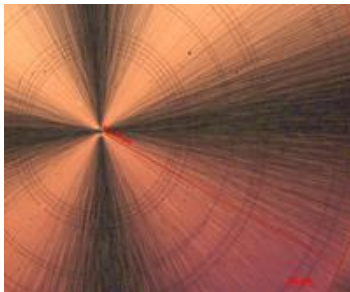
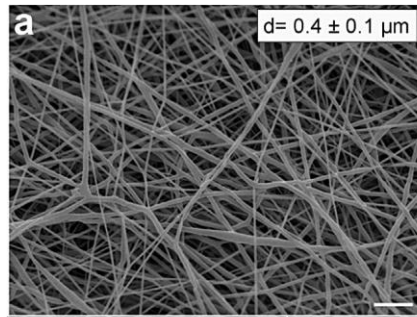


✓ physical properties and final performances

Periodic Table of the Elements



(c)



[annamaria.celli@unibo.it](mailto:annamaria.celli@unibo.it)

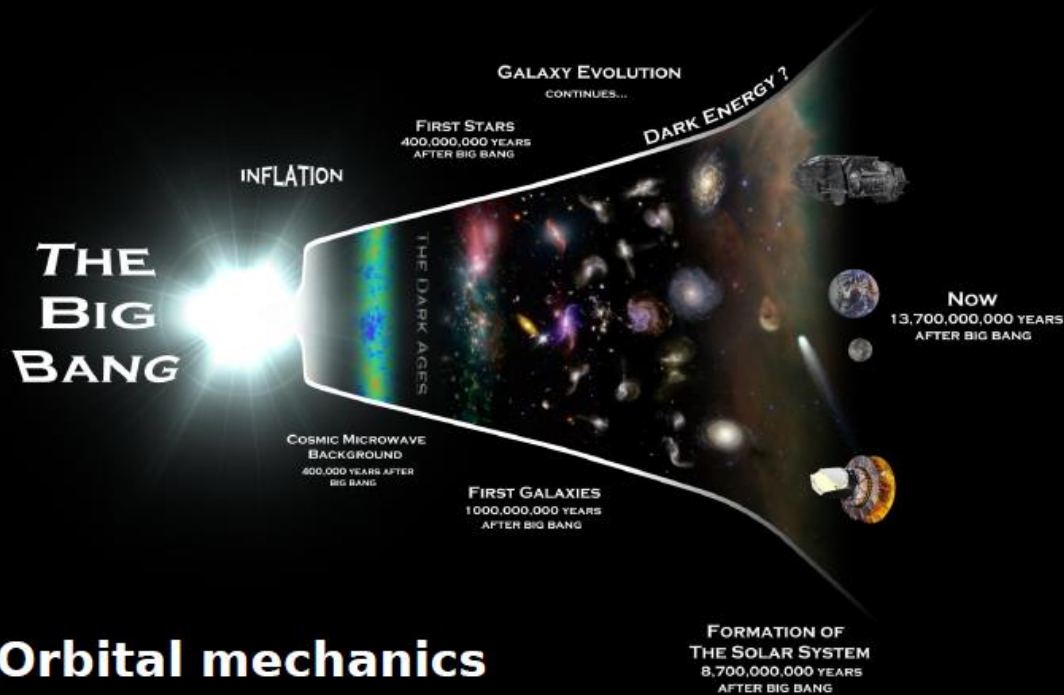


ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ



# 91187 - FUNDAMENTALS OF ASTROPHYSICS

1<sup>st</sup> year - spring semester



**Orbital mechanics**  
**Radiative processes**  
**Stellar interiors and evolution**  
**The interstellar medium**  
**Cosmology and galaxy formation**

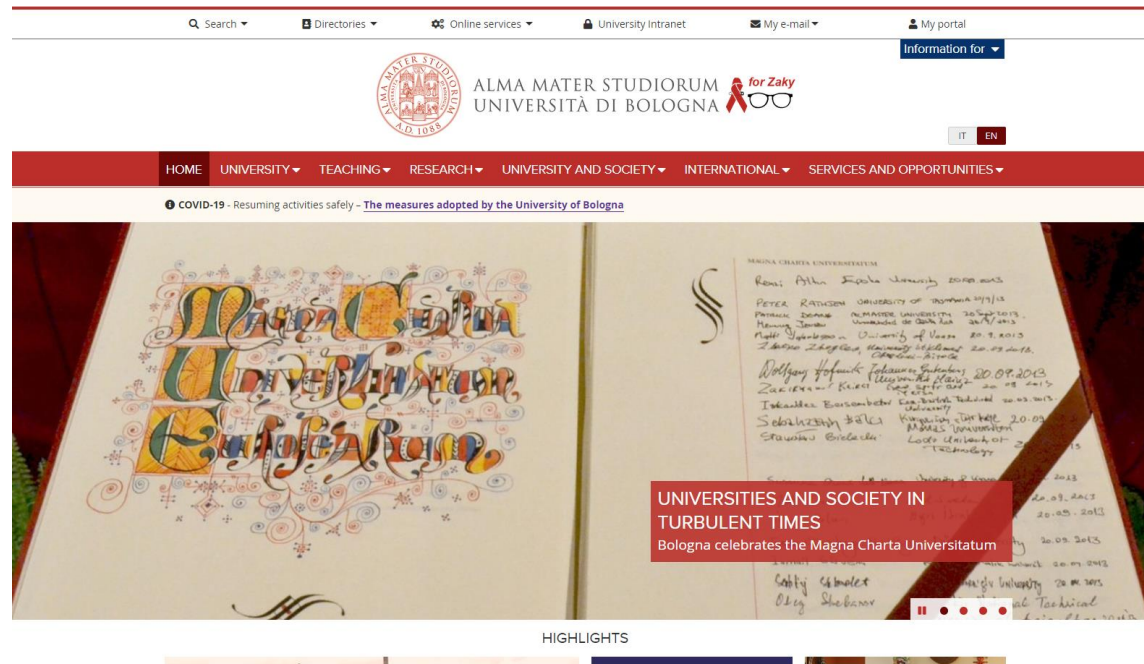
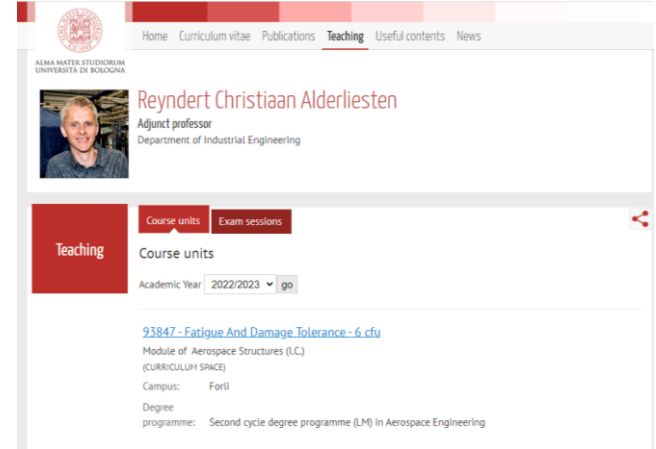
[federico.marinacci2@unibo.it](mailto:federico.marinacci2@unibo.it)



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

# Where can I find all this information?

- Degree website
- Professors personal websites
- UNIBO website



# CFU-University Educational Credits

CFU are a tool used to measure the quantity of learning, including individual study, required of a student in order to acquire knowledge and skills in the learning activities envisaged in the degree programme.

CFUs are obtained by passing exams or other assessment tests.

Credits define the quantity of work; the quality of the student's performance on the other hand is documented by a grade (18/30 minimum to pass).

**ECTS=CFU**

**1 CFU = 25 hours**

**10 class lecture + 15 individual study**

**6 CFU = 150 hours**

**60 class lecture + 90 individual study**



# I don't understand how I failed this exam



# Don't wait January exam session to start studying

- Raise your hand during lessons, ask questions and be participative
- Consult professors during office hours
- Ask for help to our Tutor
- If you think you need some revision, all students are welcome to attend the *Fundamentals of Aerospace Engineering I.C.*





# Master's degree in Aerospace Engineering programme website

<http://corsi.unibo.it/2cycle/AerospaceEngineering/Pages/default.aspx>


Search ▾ Directories ▾ Online services ▾ University Intranet My e-mail ▾ My portal

ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA CAMPUS DI FORLÌ

## SECOND CYCLE DEGREE/TWO YEAR MASTER IN AEROSPACE ENGINEERING

HOME PROGRAMME ADMISSION STUDYING OPPORTUNITIES NOTICE BOARD CONTACTS IT EN










**COVID-19** - Resuming activities safely - The measures adopted by the University of Bologna



**Alma Mater Fest: musicians and singers wanted**

Alma Mater Fest is the welcome day of the University of Bologna for its students, next October 12. To participate as a musician and play live together with Rockin'1000, register before September 11.

OVERVIEW ▶

 PROGRAMME TYPE Laurea Magistrale (Second cycle degree/Two year Master - 120 ECTS)	 PLACE OF TEACHING Forlì	 LANGUAGE English
 TYPE OF ACCESS Restricted access	 DEGREE PROGRAMME CLASS LM-20 - Aerospacial and aeronautic engineering	 DEGREE PROGRAMME DIRECTOR Fabrizio Giulietti
 DEGREE TYPE Double/Multiple degree	 DEPARTMENT Industrial Engineering - DIN	 LEARNING ACTIVITIES Course structure diagrams



# Master's degree in Aerospace Engineering

## Studenti Online Page

d the  
onsult the

and the  
[nes](#)

ask

tudenti  
ion

and 14:00-

teaching

aching and  
ublic

[Jential](#)  
[udents](#)

mobile devices, like smartphones and tablets, it is necessary to delete the account setup and recreate it within the same app (e.g. the email program pre-installed on the mobile device) by selecting Office365 mode, if available, or Exchange mode.

Requests in progress **2**

[Bookings](#)

Status	Id	Type	Description	Start date
Applications concluded		Study grant	Bando Congiunto Unibo - Er.go Per L'assegnazione Di Interventi A Favore Di Studenti In Situazioni Di Particolari Difficolta' - Anno Accademico 2021/2022	01/03/2022 <a href="#">See detail &gt;</a>
Application submitted		Study grant	Bando Di Concorso Per L'assegnazione Di Incentivi Alle Iscrizioni A Corsi Di Studio Inerenti Ad Aree Disciplinari Di Particolare Interesse Nazionale Per L'anno Accademico 2017/2018*	23/11/2018 <a href="#">See detail &gt;</a>

[See all >](#)

 <b>Admission application</b> Take part in the selection	 <b>Registration</b> Enrol in a Degree Programme	 <b>Exams - AlmaEsami</b> Enrol for exams and progress tests	 <b>Bookings</b> Register for entrance exams, language test, job placement ...	 <b>Transport pass application</b> Apply for TPER transport pass at a subsidised price	 <b>Fee situation - Enrolment</b> Check your fee situation and make payments
 <b>Certificates and self-certifications</b> Print self-certifications and certificates with stamp	 <b>On-line records book</b> Check your university career	 <b>Calls</b> Opportunities offered to you by the University	 <b>Language exam recognition</b> Request language exam recognition	 <b>Study plan</b> Complete your study plan	 <b>Graduation</b> Launch the graduation procedure
 <b>Programme transfer</b> Request to transfer to another Degree Programme	 <b>Transfer</b> Request transfer to another university	 <b>Withdraw from studies</b> Complete the application for withdrawal from studies	 <b>Suspension of studies</b> Request Suspension of studies	 <b>Diploma supplement</b> Request the Diploma Supplement	 <b>International mobility - AlmaRM</b> International exchange programmes
 <b>Internships</b> Find internship offers and host organisations Activate the internship	 <b>Job placement</b> Search the job vacancy noticeboard	 <b>Badge duplicate</b> Fill in the badge duplicate application	 <b>Inserisci il tuo CV</b> Inserisci il tuo CV per Alma laurea	 <b>Extension of the study period as part time student</b> Apply for the extension of the study period as	 <b>Shortening of the degree program</b> Apply for career shortening



# What am I supposed to do as a new student?

- Complete your enrolment
- Finalise fees calculation
- Complete the study plan
- Attend lessons
- Sign up for exams





# Complete your enrolment

To complete the enrolment, you need to **validate your identity** and activate your career. Italian students can use **SPID credentials or the CIE** to log into Studenti Online so that the identity will be automatically validated.

If you are an international Student with a foreign qualification, please contact the Student Administration Office in Forlì Campus to book an appointment and validate your identity. After this procedure and after all the necessary documents regarding your bachelor's degree have been submitted, your career will be active, and you can start to use all the services of the University.

You will receive an e-mail on your inbox @studio.unibo.it with the instructions to **get the badge**.

**SPID** is the digital and personal identity of each citizen, with which he/she is recognized by the Public Administration to use digital services in a personalized and secure way.

In order to activate your SPID you need to possess a valid Italian identification document. If you have a EU or non-EU citizenship, you will need to request one at the Anagrafe office of Forlì after you register your residency in Italy.



# Complete your enrolment- Contact the Student Administration Office

Get in contact with the Student Administration Office through the **VIRTUAL HELPDESKS** -The new service for video calling your Student Administration Office and Right to Higher Education Offices

You can speak to a dedicated operator by connecting or by making an appointment during opening hours

## Office hours

Tuesday 09:00-12:00 V 14:00-15:30 V

Wednesday 09:00-12:00 V

Thursday 09:00-12:00 P 14:00-15:30 V

Friday 09:00-12:00 V

**Address:** Padiglione Melandri, Piazzale Solieri 1, 47121 Forlì

**E-mail:** [segforli@unibo.it](mailto:segforli@unibo.it)



# Complete your enrolment- Non-EU citizens requiring a permit of stay

A very useful check-list is available at

<https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/international-students-how-to-prepare-for-enrolment-1/checklist-for-non-eu-students-residing-abroad-already-admitted-to-a-degree-programme>

Regarding doubts about the Residence Permit:

<https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/visa-and-rules-for-residence-in-italy/residence-permit>

If you matriculated by submitting only the entry VISA for study purposes, your (conditional) enrolment will be activated only after the receipt has been recorded, so send a copy to the Student Administration Office.

Having collected your residence permit, submit a copy to the Student Administration Office, as your enrolment is subject to the acquisition of the residence permit. If you forget it, after 180 days from the application date you will no longer be allowed to sit for exams or request certificates.



# Complete your enrolment- Contact the Student Administration Office

Particular situations or doubts, especially of Non-EU citizens with a VISA, can be discussed individually.

Please send an email to [didatticaforli.ingstudenti@unibo.it](mailto:didatticaforli.ingstudenti@unibo.it) for an appointment.

For all the information, please refer to the Unibo website:  
<http://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination>



# Tuition fees and ER.GO Scholarships

Tuition fees are calculated based on the 2022 ISEE value with special subsidies in relation to the right to higher education.

With an ISEE value up to €24,500, first year students and students that meet merit requirements are totally exempted from paying tuition fees.

Above this limit, fees are calculated progressively, more favourably for students who have a low income and meet merit requirements.

You need to have the 2022 ISEE certification for uses in relation to the right to higher education and submit your application by 2 November 2022 at 18:00 (or by 15 November 2022 at 18:00 and pay a late submission fee of €100).

<https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/tuition-fees-and-exemptions/tuition-fees>

As an international student, your tuition fees will be calculated according to your country of origin and the country where your family has income and assets.

<https://www.unibo.it/en/teaching/enrolment-transfer-and-final-examination/tuition-fees-and-exemptions/tuition-fees-for-international-students-a-y-2022-23>



# Tuition fees and ER.GO Scholarships

The presentation by ER.GO. About their service and their helpdesk will be available tomorrow at the **Welcome inFO** event at the Teaching Hub

16th September 2022

from 9:30 to 13:00

Welcome inFO  
about the services of  
Forlì Campus

[Sign up here](#)

|| < 1/2 >

OVERVIEW ▶

OPEN DAY ▶

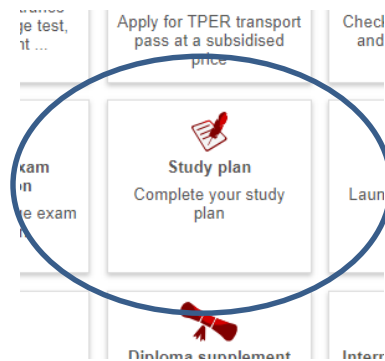


# Complete your study plan for a.y. 2022-2023

The study plan is the complete set of exams that you need to sit in order to graduate. Some exams are compulsory, while others are **elective**.

A study plan can be presented by properly enrolled students who have paid their tuition fees and, in the case of international students, who hold a valid residence permit.

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



First period: 10th October to 11th November 2022

Second period: 13th February to 10th March 2023



# Complete your study plan for a.y. 2022-2023: Fundamentals of Aerospace Engineering

[Home](#)

---

**Studenti Online Help Desk**

To receive support in using Studenti Online or to report a malfunction

**E-mail:**  
[Support service e-mail](#)

**Telephone:**  
+39 051 20 80 301

**Opening hours:**  
Monday - Friday 9:00-13:00 and 14:00-17:00

---

**General information on teaching and student services**

For general information on teaching and student services contact the Public Relations Office - [URP](#).

Also find out:

- [More information about credential](#)
- [Contacts for international students](#)
- [Privacy Policy Statement](#)

You are here: [Home](#) » Your university career

## Your university career

**Registrar**

School	Engineering and architecture
Type	Laurea magistrale
Degree Programme	5723 - Aerospace engineering - Curriculum curriculum space

✔ Enrolment in academic year 2022/2023 present


Fee status [See detail >](#)

Year of enrolment	1 - In corso
Duration	2
Year of Registration	2022
Status	Attiva

**Career details**

Code	Learning activity	Credits	Outcome	Record date
First programme year				
93748	Advanced aerodynamics (i.c.)	12		
73184	Aerospace structures (c.i.)	12		
73202	Spacecraft orbital dynamics and control	6		
93752	Fundamentals of aerospace engineering (i.c.)	12		
93751	Numerical and mathematical methods for engineering (i.c.)	12		
93848	Atmospheric flight dynamics	6		

**Number of credits obtained that count towards this degree:** 0 / 120  
The credits for the final examination are not considered in the calculating the requirements for the graduation application and will automatically be added once you have graduated.

 [Passed exams](#)





# Complete your study plan for a.y. 2022-2023

Elective activities must count for **18 CFU** of your study plan.

You can choose:

From 6 to 12 CFU chosen at year 1 and from 6 to 12 CFU at year 2, for a total of 18 CFU.

Students may ask the Degree Board to add some different activities to their study plan which are not included in the Degree curriculum but offered by other Degrees of the University of Bologna.

In this case, you must submit the paper module to the Engineering Degree Office.

The Degree Board will evaluate the request and approve/deny the proposal.



# Attending lessons

<https://corsi.unibo.it/2cycle/AerospaceEngineering/teaching-calendar>

- **1st semester:**

Lessons: September 15<sup>th</sup> - December 22<sup>nd</sup> 2022

Exams: January 9<sup>th</sup> 2023 – February 17<sup>th</sup> 2023

- **2nd semester:**

Lessons starting: February 20<sup>th</sup>- June 1<sup>st</sup> 2023

Exams: June 5<sup>th</sup> – September 19<sup>th</sup> 2023

## Holidays

No activity for holidays: 31<sup>st</sup> October, 1<sup>st</sup> November, 8<sup>th</sup> and 9<sup>th</sup> December 2022;  
4<sup>th</sup> February, 24<sup>th</sup> and 25<sup>th</sup> April, 1<sup>st</sup> May, 2<sup>nd</sup> June 2023.

from 23<sup>rd</sup> December 2022 to 8<sup>th</sup> January 2023 (Christmas holidays)

from 6<sup>th</sup> to 11<sup>th</sup> April 2023 (Easter holidays)



# Attending lessons- course timetable

<http://corsi.unibo.it/2cycle/AerospaceEngineering/Pages/course-timetable.aspx>

Homepage-> Studying > Course Timetable

HOME / STUDYING /

## Course Timetable

View the lecture schedule for the year you are enrolled in.

YEAR OF STUDY: 1st year | CURRICULUM: CURRICULUM AERONAUTICS | GO

**Lecture Terms:** During a.y. 2022/23, lectures for First Cycle, Second Cycle and Single Cycle Degree Programmes will be held with... [Read more](#)

Lecture schedule (1st year) for Curriculum "CURRICULUM AERONAUTICS" - Aerospace Engineering (codice 5723).  
Data can change. Please check this page regularly.

Filter by teaching: [icon] [icon]

12 - 18 Sep 2022 | DAY WEEK

	MON 9/12	TUE 9/13	WED 9/14	THU 9/15	FRI 9/16	SAT 9/17	SUN 9/18
8am							
9am				E002024 - WELCOME DAY Fabrizio Giulietti AULA 3.1	E002024 - WELCOME INFO- FORLÌ CAMPUS SERVICES PRESENTATION - TEACHING HUB, ROOM TBC		
10am							

*Please check it regularly (every morning) for any changes or lesson cancellation*



# Online services

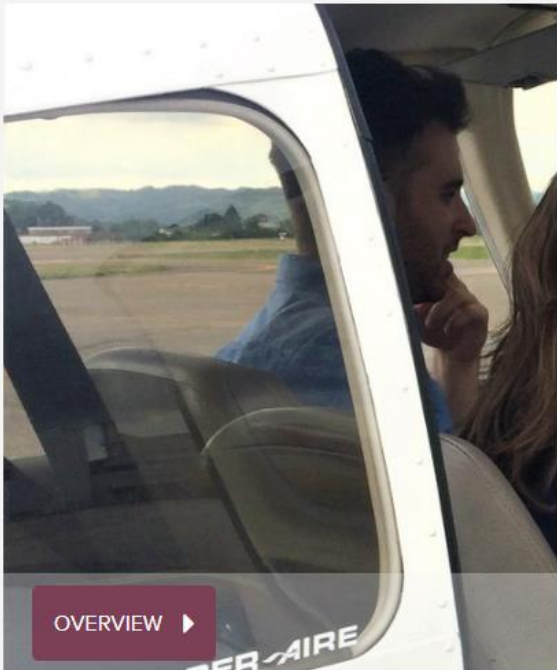
Search ▾ Directories ▾ Online services ▲ University Intranet My e-mail ▾ My portal

ALMA MATER STUDIORUM UNIVERSITÀ DI BOLOGNA CAMPUS DI FORLÌ

SECOND CYCLE AEROSPACE

HOME PROGRAMME ADMISSION STUDYING

COVID-19 - Resuming activities safely - [The measures adopted](#)



OVERVIEW ▶

- Students
  - AlmaEnglish
  - Almaesami
  - AlmaRM
  - Certificates
  - Document and library services
  - Insegnamenti online - IOL
  - Internships
  - Job vacancy noticeboard
  - Studenti Online
  - Study plans
  - Teaching Staff-Student Distribution lists
  - Tesi online
  - UniboStore
- Staff
  - Almaesami
  - Almaregistri
  - AlmaRM
  - Cedolini web
  - Document and library services
  - Incarichi extraistituzionali
  - Insegnamenti online - IOL
  - Internships
  - IRIS - Institutional research archive
  - NormAteneo
  - OrganiWeb
  - Personal Website
  - Platform for printed materials
  - Presenze web
  - Teaching Staff-Student Distribution lists
  - Tesi online
  - Titulus
  - UniboImmagine
  - U-Web Reporting - Projects Accounting Reporting
  - See all

IT EN

and singers

the University of  
12. To participate as a  
lockin'1000, register

2 / 3

PROGRAMME TYPE  
Laurea Magistrale (Second cycle degree/Two year Master - 120 ECTS)

PLACE OF TEACHING  
Forlì

LANGUAGE  
English

Close

# Sign up for exams

ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

SECOND CYCLE DEGREE/TWO YEAR MASTER IN  
**AEROSPACE ENGINEERING**

HOME PROGRAMME ADMISSION STUDYING OPPORTUNITIES NOTICE BOARD CONTACTS IT EN

HOME / STUDYING /

## Exam dates

View the list of exam dates for the next six months

All exam dates

**Exam sessions and other information**  
From 1 June 2022 exams will be held in person.  
Teachers will assess student requests to take exams online taking into consideration health conditions, international mobility issues, and impediments due to extraordinary reasons  
[COVID-19 - Resuming activities safely - The measures adopted by the University of Bologna](#)  
[Reduce](#)

To check the exams you can sit according to your study plan, consult specific information and register for a session, access [AlmaEsami](#) or download [myUniBo](#) app.

35313	Advanced Propulsion Systems (2nd cycle)	PONTI FABRIZIO
73348	Aerospace Propulsion Systems	PONTI FABRIZIO
93846	Aerospace Structures	TROIANI ENRICO
73184	Aerospace Structures (I.C.)	TROIANI ENRICO
73186	Aerospace Structures A	TROIANI ENRICO
73189	Aerospace Structures B	TROIANI ENRICO
73205	Aerospace Technologies and Materials	BAGASSI SARA

**Filtri ricerca**

Sostenuti  Prenotati  Prenotabili  Altri  Anni

Anno	Attività Formativa	Cds	Cfu	Stato
1	93748 - ADVANCED AERODYNAMICS (I.C.)	5723	12	
1	73184 - AEROSPACE STRUCTURES (C.I.)	5723	12	
1	93848 - ATMOSPHERIC FLIGHT DYNAMICS	5723	6	
1	93752 - FUNDAMENTALS OF AEROSPACE ENGINEERING (I.C.)	5723	12	Prenotazioni: premi (+) per i dettagli <input type="button" value="prenota"/>

**Elenco prove prenotate**

Fundamental Aerospace Engineering - Flight Mechanics - sostenuto (19)  
16/02/2022 ore 09:00

Fundamental Aerospace Engineering - Flight Mechanics - sostenuto (Respinto)  
03/02/2022 ore 09:00

**Elenco prove disponibili per l'attività formativa**  
Nessun appello disponibile

# Changing Curriculum

The degree regulations allows curriculum change, that must be approved by the Degree Council after submission by the student of a specific form (and 16 euro stamp).

Please think carefully about changing curriculum  
-> it has effects on your study plan





# Who are my points of contact?

*Degree Director*

Professor Fabrizio Giulietti

*Programme Coordinator*

Giulia Chiadini

*Aerospace Engineering Tutor*

Federica Remor

*Tutor for International Mobility*

Gianmarco Broilo

For contact details, please visit: <https://corsi.unibo.it/2cycle/AerospaceEngineering/contacts>



# Degree Director

**Prof. Fabrizio Giulietti**



- The Director is responsible for the implementation of the Board's guidelines and liaises with the relevant Departments and Schools
- Represents the master's degree at guidance events
- Can be consulted for issues related the activities of the master's degree

[Fabrizio.giulietti@unibo.it](mailto:Fabrizio.giulietti@unibo.it)

Office hours: Thursday 10.00-12.00 upon appointment

Other days on appointment



# Programme Coordinator

**Giulia Chiadini**



- Point of contact for the master's degree Aerospace Engineering students
- Support with applications and enrolment
- Organise welcome and guidance meetings and events
- Support Italian and foreign students during their academic career

[Didatticaforli.ingstudenti@unibo.it](mailto:Didatticaforli.ingstudenti@unibo.it)

[Giulia.chiadini2@unibo.it](mailto:Giulia.chiadini2@unibo.it)

Via Montaspro 97, 1° floor 19/A



# Aerospace Engineering Tutor

- acts as an **interface** between the students and the Degree Programme to offer a reference for the teaching activities
- to collect information and comments, as well as to receive any **claims** or **feedbacks** about existing critical conditions or any requests regarding logistic and organizational aspects or other issues.
- maintaining the **contacts** with students who may for various reasons (for example, job activities) encounter major difficulties at tests/exams and of setting up a clear programming for their studies and career.



[didatticaforli.tutoringaerospaziale@unibo.it](mailto:didatticaforli.tutoringaerospaziale@unibo.it)

Office hour: Every Monday from 9.30 to 11.30, in via Montaspro 97 (1° floor office 18)  
upon appointment by email



# International Mobility Tutor

- Help to fill out the Learning Agreement
- Support for students involved in Erasmus+ mobility (studies and traineeship)
- Help incoming international students
- Information for research and thesis preparation abroad

[didatticaforli.internazionalizzazione.ing@unibo.it](mailto:didatticaforli.internazionalizzazione.ing@unibo.it)

Office hour: upon appointment by email

Via Montaspro 97, room 18



# MAE Facebook Page

*@aerospaceengineering.unibo*



*Official page of the master's degree in Aerospace Engineering*

Updates on events and opportunities, interesting articles,  
calls for applications etc.



# Health and Safety in the Workplace training course aimed at students

The training courses, partly online and partly taught in class, targets all those students who will carry out activities in university laboratories or in private companies during their degree programs (training in laboratory, internships projects, thesis, etc.) and are for these reasons treated equally to workers (art.37 Italian law nr. 81/08, letter a)

This is an important opportunity aimed to provide knowledge and raise awareness on health and safety in the workplace, but most of all **it is mandatory.**

**General training (module 1)** provides a no-expiry certification which is recognized in private and public company in Italy. **Training on specific risk types (module 2 and 3)** provide a certification expiring after 5 years (external companies can recognize this certification or part of this).

More info and registration instructions at

<https://www.unibo.it/en/services-and-opportunities/health-and-assistance/health-and-safety/online-course-on-health-and-safety-in-study-and-internship-areas>





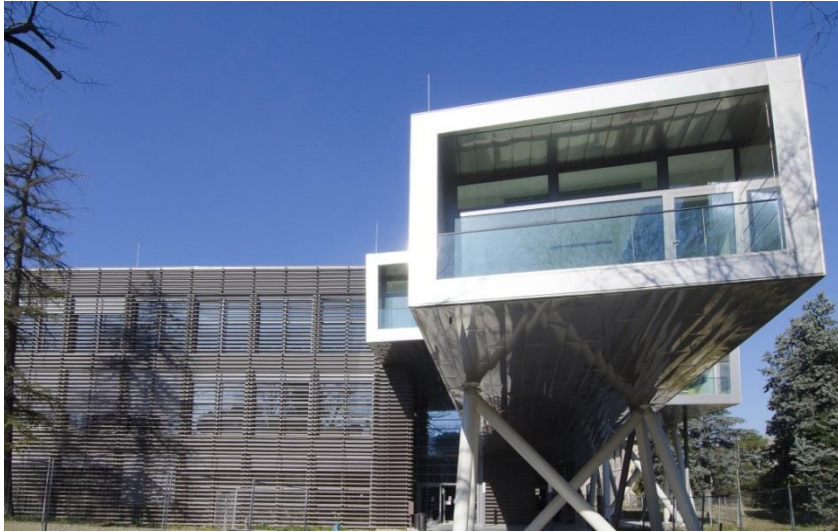
# Tecnopolo CIRI Aeronautics

Via B. Carnaccini 12, Forlì

The facility for Aeronautics and Astronautics provides laboratories and offices for graduating and thesis students, PhD candidates and researchers.



# Forlì Campus and the Teaching Hub



## Teaching Hub

Viale Corridoni 20, Forlì  
Teaching and study rooms

Via Giacomo della Torre 1  
PC lab (LABIC)

## Forlì Campus

Piazzale Solieri 1, Forlì

Services of the Forlì Campus



# Incoming EVENTS

Welcome InFO- Tomorrow!



European Researchers' Night, September 30th

AlmaFest 5-10 October



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

# Questions?



The world's fastest  
hypersonic rocket-  
powered aircraft

North American X-15

## Aero Trivia

Match the yellow and green card

If the couple brings to us the correct match you will get an extra  
gadget  
at the end of the event!





ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

**Thank you for your attention**

**Enjoy the coffee-break!**





ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

# Extra-curricular activities

- **Flight experience with Professione Volare**
- **ENAV- Thinking cup 2022**
- **Alma-X**
- **Onda Solare**
- **Unibo Motorsport**
- **Euroavia**
- **Educational trips**
- **PEGASUS Student Conference**



# PROFESSIONE VOLARE



# Flight experience with PROFESSIONE VOLARE

ACCOUNTABLE MANAGER  
Com.te  
Cesare Montefiori

HEAD OF TRAINING (HT)  
Emanuela Brandone

- At Forlì airport
- 20 years of collaboration with Unibo

PROFESSIONE®  
**YOLARE**  
IT-ATO-0020



# Flight experience with **PROFESSIONE VOLARE**

Since 2017 we have provided a flight experience to Unibo first year students

- Group Briefing
- Individual 35' flight experience with pilot
- Debriefing

Aim of the educational experience: hands-on activity about what is taught in classroom

- Effect of commands
- Performance analysis
- Study of the aircraft dynamics



# Professione Volare & Alma Mater Studiorum

Your Flight Instructor will wait for you at Professione Volare training centre.

The flight mission consists of a first approach to flight, so :

- Engine Start Up;
- Taxi;
- Take Off Briefing and T/O procedure;
- Short navigation to Castro, Faenza, Straight in approach to the field, Touch & go, traffic pattern and Landing;
- Taxi again to the stand;
- Parking and Engine Shut down.



# Professione Volare & Alma Mater Studiorum

## Flight Mission Briefing

- Before flight the instructor make with you a preflight briefing about wheather conditions and Air Traffic situation.
- He will explain what to do in case of emergency.
- For «emergency» I mean also the case you don't feel good during flight!



# Professione Volare & Alma Mater Studiorum

Each mission is about 35/40 minutes length.

You will be provided with sanitized headphones for each individual student.

If you have any doubts about your health, or fear of flying, please, advise.  
It's not mandatory to fly!

and

Please, if during the flight you will not feel well, tell immediately to your  
Instructor, so he can carry you on ground suddenly.



# Flight experience with **PROFESSIONE VOLARE:** Our students experiences





# Questions?



*...Italian trainers do it better...*



**ENAV**



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

**ALMA-X**



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

# ONDA SOLARE



# UNIBO MOTORSPORT



**EUROAVIA**



ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

# Educational trips and other opportunities

Company visits as part of a teaching module



Visit to the AERO Friedrichshafen 2022

**June 2023- International Paris Air Show at Le Bourget!**





# PEGASUS Student Conference and Aero-games





ALMA MATER STUDIORUM  
UNIVERSITÀ DI BOLOGNA  
CAMPUS DI FORLÌ

**Thank you for your attention!**

The Staff of the master's degree of Aerospace Engineering

Didatticaforli.ingstudenti@unibo.it

[www.unibo.it](http://www.unibo.it)