



UNIVERSITÀ DEGLI STUDI DI NAPOLI FEDERICO II
SCHOOL OF ENGINEERING AND BASIC SCIENCES

DEPARTMENT OF INDUSTRIAL ENGINEERING

STUDENT GUIDE

BACHELOR IN AEROSPACE ENGINEERING

Degree Programme Class: L-9

ACADEMIC YEAR 2026/2027

Naples, July 2026

Overview of the Degree Program

The Program at a Glance

The Bachelor's Degree Program in Aerospace Engineering aims to train engineers capable of working in a highly competitive and interdisciplinary field—such as aerospace—that is technologically advanced and constantly evolving. To this end, the program strikes a balance between fundamentals, related, and supplementary disciplines, as well as in-depth study of the specific professional sector. On the one hand, this ensures adequate training to analyse and describe classic engineering problems; and, on the other hand, offers the opportunity to enter the workforce in specialized and technologically advanced sectors, supporting the design, management, operation, and certification of advanced-technology systems and processes in the fields of industrial engineering—with a focus on those where aerospace disciplines and technologies play a significant role—or to continue studies in a Master's degree program.

Graduates in Aerospace Engineering will be able to apply the scientific concepts, and basic and specialized methodologies acquired in the disciplinary fields of fluid dynamics, flight mechanics, structures, propulsion, and aerospace systems to manage technologies and optimize performance of components and systems with particularly stringent requirements, such as: high aerodynamic efficiency, operation in critical environments and situations, and weight reduction with a focus on safety and reliability. Finally, graduates must be able to use English and possess adequate knowledge to utilize the necessary IT tools within their specific field of expertise and for the exchange of general information.

The degree program is offered by the Department of Industrial Engineering (<http://www.dii.unina.it/>), which is part of the School of Engineering and Basic Sciences (<http://www.scuolapsb.unina.it/>).

Job Opportunities

The objective of the degree program is to train graduates who, while focused on a specific professional profile, are able to adapt to the mobility and variability of the job market and keep pace with continuous innovations—which are particularly pronounced in the aerospace sector. Traditional career paths for graduates in Aerospace Engineering include: the aerospace industry, including aviation and space sectors, public and private research institutions in the aerospace field, air transport companies, air traffic control agencies and high-tech industries where sector-specific expertise is essential for the production of machinery and equipment, aerodynamics, and lightweight structures. Alternatively, graduates can effectively continue their studies toward a Master's degree.

Admission to the programme and prerequisites

To be admitted to the Bachelor's program, applicants must hold a high school diploma or an equivalent qualification obtained abroad that is recognized as suitable.

Admission requires taking an Assessment Test, which is mandatory but not selective; if the test is not passed, Additional Training Obligations (OFA) will be assigned. The test is administered by CISIA according to nationally standardized procedures. If you fail the test or do not take it, you will be assigned OFA, which can be fulfilled by successfully retaking the Assessment Test or by successfully completing a first-year course in one of the following Scientific Disciplinary Sectors: MATH-02, MATH-03/A, and PHYS-(01–06).

More information about the test is available at:

www.cisiaonline.it/area-tematica-tolc-cisia/home-tolc-generale

Study Plan 2026–2027

The Study Plan requires the completion of:

- 51 ECTS in Basic Training Activities
- 18 ECTS in Related or Supplementary Training Activities
- 90 ECTS in Characterising Training Activities
- 12 ECTS in elective training activities
- 3 ECTS for further training activities
- 3 ECTS for the final examination
- 3 ECTS for language knowledge

The coursework is distributed as follows:

First Year

First Semester

Mathematical Analysis I (9 ECTS)

Elements of Computer Science (6 ECTS)

Industrial Technical Drawing (6 ECTS)

English Language (3 ECTS)

Second Semester

Mathematical Analysis II (9 ECTS)

Chemistry (6 ECTS)

Geometry and Algebra (6 ECTS)

General Physics I (9 ECTS)

Second Year

First Semester

Mathematical Physics (6 ECTS)

Aerodynamics (9 ECTS)

Second Semester

Aerospace Structures (9 ECTS)

Annual

Gasdynamics (12 ECTS)

Aerospace Systems (12 ECTS)

Flight Mechanics (12 ECTS)

Third Year

Annual

Electromagnetism and Electrical Engineering (12 ECTS)

First Semester

Aerospace Materials Technology (6 ECTS)

Numerical Methods in Aerospace Engineering (6 ECTS)

Aerospace Structures I (9 ECTS)

Second Semester

Aerospace Propulsion (9 ECTS)

Probability and Statistics (6 ECTS)

Final Examination (3 ECTS)

First and Second Semesters

Elective Training Activities (12 ECTS, see study plan notes)

Further Training Activities (3 ECTS)

Additional Study Plan Notes

Students may choose elective courses in both the first and second semesters of the third year until they have completed the 12 ECTS allocated for these activities. The following courses, recommended for students' own selection, **are automatically approved (without the need to submit a Study Plan)**:

First Semester

Complements of Aerospace Constructions (6 ECTS)
Aviation Regulations (6 ECTS)
Onboard Systems Laboratory (6 ECTS)

Second Semester

Special Technologies II (6 ECTS)
Aircraft Maintenance (6 ECTS)
Experimentation of Structures (6 ECTS)
Structural Calculation Laboratory (6 ECTS)

The assessment of the Further Training Activities is certified by the CCD Coordinator based on the certificate of attendance issued for the active participation in seminar series or other educational activities by the responsible for the initiatives, or for attendance in specific courses organized by the University to provide students with additional language skills, computer and telecommunications skills, interpersonal skills, or skills otherwise useful for entering the workforce, which involve the issuance of digital certifications via open badges or teamwork initiatives.

Under Further Training Activities, language proficiency (3 ECTS) acquired through the ENGLISH II exam, code U1038, is automatically approved (no course is offered for this exam, credits are earned through procedures defined by the university's language center) or an ENGLISH certificate at CEFR Level B2, obtained from a "certified" external center or through procedures defined by the university's language center. In both cases, the 3 ECTS are not assigned a grade but only a pass/fail status.

Further information is available on the degree program's website at the following link:

<https://aerospaziale.dii.unina.it/it/manifesto-It>

Customizing the study plan

The Study Plan must normally be submitted by October 31 of each academic year. The procedure for submitting the Study Plan (PdS) is available on the degree program's website at the following link: <https://aerospaziale.dii.unina.it/it/piani-di-studio>

Traineeship opportunities

The Study Plan for the Bachelor's Degree Program in Aerospace Engineering provides for 3 ECTS for "Further Training Activities." These credits may be earned by participation in various types of activities (including those with external entities) that are organized or recognized by the degree program, such as: mini-courses, seminar series, the acquisition of language and soft skills, and certified external activities. While these activities may be varied, they must be relevant and consistent with the educational path of the Aerospace Engineer and require a reasonable level of commitment from the student. Such activities may also be recognized if carried out during study abroad periods, for example, as part of the Erasmus program. Further details are available on the degree program's website at <https://aerospaziale.dii.unina.it/it/manifesto-It>

Graduation thesis and exam

The degree in Aerospace Engineering is awarded upon passing a final examination (3 ECTS), which consists of the evaluation of a thesis prepared by the student under the guidance of an academic advisor and focuses on educational activities carried out in one or more courses.

The final examination is taken by the candidate in front of a committee chaired by the Program Coordinator (or the senior faculty member in the committee) and consists in the evaluation of the

thesis completed under the guidance of an academic advisor. The thesis is a technical document concerning analytical or design-oriented work.

The graduation committee will determine the final grade by taking into account the average of the grades obtained in the courses included in the student's study plan, the quality of the final examination, and other considerations related to the student's academic career.

To be admitted to the graduation exam, the student must have earned all the ECTS credits required by their study plan, except for those related to the final exam.

Further information is available at the following link: <http://aerospaziale.dii.unina.it/it/prova-finale>

International exchange programmes (Erasmus programme)

The degree program participates in student mobility programs for study abroad periods, both through Erasmus (see <https://www.unina.it/didattica/opportunita-studenti/erasmus/programma>) and through international mobility initiatives based on specific non-Erasmus agreements. For outgoing Erasmus mobility, the call for applications is issued centrally by the University through the Office of International Relations. For incoming Erasmus mobility, the Office of International Relations is responsible for forwarding the lists of incoming students along with their Learning Agreements for subsequent approval and signature by the faculty member overseeing the exchange.

Special educational paths

Expert in Aircraft Maintenance

The Bachelor's Degree Program in Aerospace Engineering offers students the option of a specialized curriculum designed to provide specific skills in the field of aircraft maintenance and formally recognized by the Italian Civil Aviation Authority (ENAC). The engineering training acquired through this track will enable students to develop a professional profile as an "Expert in Aircraft Maintenance" and to obtain an Examination Credit Certificate (ECC) recognized by ENAC, allowing them to pursue a career as an independent engineer with "certifying staff" status or within a company holding the appropriate licenses and authorizations to certify maintenance performed on aircraft, in accordance with the requirements set forth by European regulations (EASA Part 66, EU Regulation). The criteria and procedure for obtaining the ENAC Examination Credit Certificate are available on the degree program's website (<http://aerospaziale.dii.unina.it/it/allcategories-it-it/39-opportunita/69-manutentore-aeronautico>). The special path culminates in a Master's degree.

Orientation and Tutoring

Orientation to incoming Students

The incoming student orientation program is aimed at students graduating from high schools. It aims to provide information on the academic focus and career opportunities associated with the degree program, the academic structure, admission requirements, and methods for self-assessing suitability for the program. New student orientation takes place at three levels: the University, the School of Engineering and Basic Sciences, and the Department. The activities are designed for both individual students and classes from high schools.

Individual students can obtain information by interacting directly with university staff assigned to orientation, through both online and in-person events. The calendar of individual events is available on the University website at www.orientamento.unina.it and is also posted on the School of Engineering and Basic Sciences (SPSB) website, www.scuolapsb.unina.it. In mid-February, the “Porte Aperte” event takes place, where you can attend presentations on the academic programs and tour the department facilities and research laboratories.

From March through July, “Open Days” are organized to allow visitors to tour the facilities or attend specific events. The dates of these events and information on how to participate can be found on the Department of Industrial Engineering’s website (www.dii.unina.it).

A video presentation of the degree program is available on the study course website (<https://aerospaziale.dii.unina.it/it/>)

Tutoring and counseling

The degree program organizes tutoring activities in coordination with the Department, the School of Engineering and Basic Sciences, and the University. These activities are designed to facilitate each student’s transition into the program. Before classes begin, a welcome event is held to provide general information on the location of facilities and the schedule of classes. In addition, supplementary educational activities are conducted with the assistance of tutors—undergraduate students or doctoral candidates—focused primarily on basic training activities.

Career orientation and job placement

The degree program organizes career guidance activities in coordination with the Department, the SPSB, and the University. Each year, the “Magistrali@SPSB” event is held to showcase the academic offerings of master’s degree programs, career paths, and opportunities for theses and internships. A list of opportunities for extracurricular (i.e., post-graduate) internships and job openings is available on the website www.orientamento.unina.it. In addition, the SPSB manages a dynamic job placement platform at www.jobservice.unina.it. Finally, the program participates in the SPSB event “Career Day@SPSB,” which is typically held in person.

Calendar of educational activities and timeline

Application timeline

Enrolment and registration for subsequent academic years generally take place from September 1 to October 31 of each year, according to procedures outlined in a specific Guide to Enrolment and Tuition Payment published at the following URL:

<https://www.unina.it/didattica/sportello-studenti/guide-dello-studente>

Additional deadlines (deadlines for submitting study plans, for submitting ERASMUS applications, etc.) are listed on the degree program's website:

<http://aerospaziale.dii.unina.it/index.php>

Academic Calendar: Courses and Exams

Details on the academic calendar and exams can be found at the following link:

<https://www.scuolapsb.unina.it/calendario-delle-attivita-didattiche-del-collegio-di-ingegneria/>

The detailed and dynamically updated exam schedule can be viewed at the following link:

<http://aerospaziale.dii.unina.it/it/info-it>

Course Timetable

The detailed class schedule is dynamically updated and can be viewed at the following link:

http://easyacademy.unina.it/agendastudenti/index.php?view=rooms&include=rooms&_lang=it

Graduation Dates

The detailed and dynamically updated calendar of graduation ceremonies is available at the following link:

<https://www.scuolapsb.unina.it/esame-di-laurea-collegio-degli-studi-di-ingegneria/>

Contact Persons

Academic Coordinator: Prof. Michele Grassi – Department of Industrial Engineering – tel. 081/7682217 – email: michele.grassi@unina.it

ERASMUS Program Coordinator: Prof. Alfredo Renga – Department of Industrial Engineering – tel. 081/7682359 – email: alfredo.renga@unina.it

Internship Coordinators: Professors Francesco Franco & Michele Guida – Department of Industrial Engineering – tel. 081-7683632, 7683575 – email: francesco.franco@unina.it, michele.guida@unina.it

Career Counseling Contact: Prof. Pierluigi Della Vecchia – Department of Industrial Engineering – tel. 081-7683328 – email: pierluigi.dellavecchia@unina.it

Student Representatives:

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Sites and links

Program Location: Department of Industrial Engineering
Piazzale Tecchio, 80 - 80125 Naples (Italy) (LAT, LONG: 40.82477593093813, 14.194545098596919)

Classes are held at locations in the western part of Naples, in Fuorigrotta and Bagnoli, and at the San Giovanni a Teduccio Campus in the eastern part of Naples.

Western Naples

Piazzale Tecchio, 80 Naples (Italy) (LAT, LONG: 40.82477593093813, 14.194545098596919)

Via Claudio, 21 Naples (Italy) (LAT, LONG: 40.82870187914759, 14.190399752943291)

Via Nuova Agnano, 30-38 Naples (Italy) (LAT, LONG: 40.81828782665476, 14.174878683625861)

East Naples

Corso Nicolangelo Protopisani, 70 Naples (Italy) (LAT, LONG: 40.836230727656414, 14.30649259967075)

Program Website

<http://aerospaziale.dii.unina.it/index.php>

Department Website

<http://www.dii.unina.it/>

School Website

<http://www.scuolapsb.unina.it/>

University Website

<https://www.unina.it>

Admissions Portal

<http://www.orientamento.unina.it/>

Official Social Media Channels

Facebook Group "Aerospace Engineering Program"

<https://www.facebook.com/groups/370219660341023>

Course Descriptions

The content and objectives of the courses, along with the name of the course instructor, the format of the course, and the assessment methods, are available at <https://aerospaziale.dii.unina.it/it/manifesto-It>. You can also download the course description for each individual course from the public section of the Teacher Website.