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ENAC FACT SHEET 2023/2024

Institutional Details

Name of Institution	**ENAC**, Ecole Nationale de l'Aviation Civile, The French Civil Aviation University
Address	ENAC 7 avenue Edouard Belin BP 54005 31055 Toulouse Cedex 4
Erasmus ID Code	F TOULOUS18
Internet Address	http://www.enac.fr

Head of Institution

Name	Olivier CHANSOU, Director General
Email	Olivier.chansou@enac.fr

Head of the International Office/ Erasmus Coordinator

Name	Marc CHOUFFOT, Head of International & Corporate Academic Relations
Email	study_abroad@enac.fr

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Application procedures and deadlines

All information presented here are available also on http://studyabroad.enac.fr login as guest with no password

Application deadlines for exchange and double degree students are May 1st for Fall semester (odd semester number: semester 7, semester 9) and October 15th for Spring semester (even semester number: semester 8).

Partner university's international office should have received the following link for exchange student application and an explanation of the process:

https://aurion-prod.enac.fr/faces/CreationCompte.xhtml

The application documents are the following:

For exchange students:

- Curriculum Vitae - pdf file format
- Id photo (3.5x4.5 cm, colour, less than 100kbytes) - jpeg file format
- Cover Letter stating their reasons for applying at ENAC and for the specific programmes they have selected - pdf file format.
- A copy of the Passport pages or ID card showing names, date and place of birth, and date of expiration pdf file format.
- Official Transcript of records in English, and description of the institutional grading/credit system if different from the official ECTS system - pdf file format. All transcripts shall be bundled into one single file in reverse chronological order (latest first) when possible.
- Language proficiency test in the language of instruction (French or English)
- Learning agreement signed by Institution of Origin - pdf file format
- Letter of Nomination - pdf file format – or nomination via Erasmus online learning agreement (rappeler le lien)
- Proof of enrolment - pdf file format
- for EU citizen copy of the EU health insurance card - pdf file format.
- for non-EU citizen copy of the health insurance will be required on the day of arrival - pdf file format

We can accept different language proficiency test results. B2 level in the language of instruction (French or English) is required.

For Double Degree students:

In addition to all the above:

- 2 recommendation letters by teachers or professionals related to the field of your applied field of study - pdf file format.
- Official language proficiency tests (TOEFL, TOEIC, ...) B2 required in French and English.

For Internship at ENAC:

Students who wish to do a Master thesis **internship in the ENAC lab** shall contact Study Abroad Office by email : study_abroad@enac.fr. You must include in your email your transcripts from your home university, the duration of project (number of months) and information about in which field you would like to perform your internship. The study abroad office will transfer your application to the adequate research team. No deadlines are applicable, but a minimum of 4 months advance notice is required.

Courses and projects

Exchange students can apply for the following programs at ENAC:

- **ENAC Ingénieur Programme (IENAC)** - equivalent to a MSc in Aerospace

The curriculum comprises 6 semesters (from semester 5 to semester 10). Semesters 5 to 8 are given in French. Semester 9 is given in English only for OPS Major. Semester 10 is an end of studies project within a corporation and is accessible **only to double-degree** students.

Within the IENAC Semesters 7, 8 and 9 you can choose among several majors:

- Major Avionic systems (AVI) (in French)
- Major Space and aeronautical communications (SAT) (in French)
- Major Operations and Safety (OPS) (S7 and S8 in French, S9 in English)
- Major Informatics systems of air transport (SITA) (in French)

Students once admitted will also have to choose among a set of minors (75 teaching hours) given in English or in French.

- **Master of Science in International Air Transport System Engineering and Design (IATSED)**

Courses are given in English. The curriculum is made of 4 semesters. Students can choose among semesters 7, 8 or 9.

- **Master of Science in Aerospace Systems - Navigation and Telecommunications (AS-NAT)**

Courses are given in English. The curriculum is made of 4 semesters. Students can choose the semester 7.

➢ **Master of Science in International Air Transport Operations Management (IATOM)**

Courses are given in English. The curriculum is made of 4 semesters. Students can choose among semesters 7, 8 or 9. Due to a very limited number of places available (maximum 2) these places are only available to selected partners.

How to choose my courses

Exchange students may not combine courses from different semesters or different programmes/majors.

For example, if you choose to come to ENAC in Fall and follow the semester 9 of the IENAC program (or IATSED/AS-NAT program) you can only choose courses from the semester 9 of the program that you have selected. You cannot "cherry pick" some courses from semester 7 and some courses from semester 9 in the IENAC program. You cannot "cherry pick" some courses from the IATOM program and some courses from the IATSED program, etc.

To help you, please check the pre-filled examples of Learning Agreements on this page: http://studyabroad.enac.fr

The selection of courses must always be approved by the home University (validated learning agreement either pdf file or through Erasmus Online Learning Agreement platform).

Examination re-sits: There is only one exam session per exam. Re-sits are decided by the board of examiners and are not organised during the same semester if they are organised at all.

Course catalogue is available at http://formations.enac.fr/en/index.html

Exchange students are also welcome to perform a **final degree project at ENAC**. However, there is no service provided to match student requests with on-going research projects at ENAC. A student who wants to carry out a project must contact the Study Abroad Office by email : study_abroad@enac.fr, that will give the student the contact of the research group or professor, so that the student can contact them and arrange with them before applying.

After following these steps, the student can then apply as an exchange student.

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Academic calendar

Each programme has its own start and end dates.

For students applying to double degree programmes, the 2 weeks aeronautical catch-up module is mandatory: the start date is August 21, 2023 (two weeks before start of IENAC Semester 7).

Semesters approximative dates:

- Odd Semesters (Fall): from the end of August/ beginning of September to the end of January/beginning of February

Start of the courses:

IENAC22 (4th year): 04/09/2023, with a catch-up module on 21/08/2023 (duration: 2 weeks)

IENAC21 (5th year): 25/09/2023

IATSED23 + AS-NAT23 (1st year): 04/09/2023, with an administrative session on 31/08/2023

IATSED22: 18/09/2023

AS-NAT22 (1st year): 25/09/2023

IATOM23 (1st year): 04/09/2023, with an administrative session on 01/09/2023

- Even Semesters (Spring): from the end of January/beginning of February to the end of June

Holidays:

October 2023 - 1 Week (All Saints)
December 2023 - 2 Weeks (Christmas)
February 2024 - 1 Week
April 2024 - 1 Week (Easter)

Credits and Grades

ENAC partly applies the ECTS (European Credit Transfer System) which is based on the principle that 60 credits measure the workload of a full-time student during one academic year.

Scores are given on a 0 to 20/20 scale (20 being best). Validation of credits are dependent on performance at examinations with regards to a predefined threshold for the course. The Coefficients and threshold grades sheet for each semester. Programme is given to students at the beginning of the semester. Credits are granted for courses where the student has achieved a score equal or above 10/20 or for groups of courses (modules) where the weighted average score is above 10/20. Exchange students are **not** subject to the 7/20 threshold within a module.

Grades for acquired credits are given on the following basis:

best 10% of the group: A	following 25% of the group: B
following 30% of the group: C	following 25% of the group: D
last 10% of the group: E	

Students failing will not be granted credits and will receive the grade letter F.

Validation of semester to gain access to the following semester requires all credits validated in the semester.

Visa

Students from many countries, especially outside Europe, need to apply for a visa/residence permit for studies before entering France. Further information and application forms regarding visa/residence permit may be obtained from the French Embassy or Consulate in the home country or from CampusFrance on www.campusfrance.org

All Non EU students are strongly advised to apply as soon as they receive their letter of acceptance.

Health Insurance

EU/EEA citizens and the European insurance card

Students from EU/EEA member countries should bring the European Insurance card. The card states that the cardholder is entitled to health care on the same conditions and at the same price as French citizens. Students from UE are covered by the Social security of their country through the health insurance European card.

The “EU-card” does not mean that supplementary insurance is not necessary. Students may still need it to reduce the health care costs.

Non EU/EEA citizens

It is very important that students from non EU/EEA countries have a valid and complete insurance coverage since it is a prerequisite for securing a visa. Consequently, we strongly advice students to buy a travel/study abroad insurance in their home country before arrival in France. Important areas that the insurance should cover; personal injury, medical and dental care, accidents, home transportation (in case of injury or illness).

Students from outside UE have to connect to the website: www.etudiants-etrangers.amelie.fr, upload documents and print a certificate of Social security affiliation.

Complementary healthcare insurance:

It is advisable to take out private medical insurance to cover the portion of your medical expenses not covered by social security. You are free to choose any private medical insurance scheme, but we do advise you to take one of the two student medical insurance organisations, as they include "Student" insurance which covers public liability during training courses. You will be required to produce such

insurance if you undertake a vocational training course with a company, when you sign the agreement with them. More information here: https://www.etudiant.gouv.fr/en/welcome-france-2063

Registration

All international students at ENAC are provided with a Student card (Carte d'étudiant). This card gives access to the ENAC, to its restaurant with discount on meals, to computer rooms and to the individual housing at ENAC. The card gives also access to discounts for cinemas, some restaurants and many other activities.

French language courses

ENAC offers free French language courses (different levels), 2 hours per week during fall and spring semesters.

Buddy Program

ENAC has set up a Buddy Programme to help students settle in France. The principle is to link a French student with an international student studying at ENAC. French students will provide them with useful tips about the academic and social activities on campus, life in Toulouse and France. Registration link: https://sites.google.com/view/enac-international-club/buddy-program/applications

Accommodation

ENAC has on campus housing for students. There are several levels of housing types. Housing for exchange students has to be reserved in advance; the type of accommodation is dependent on the places available. Housing application is done on the ENAC site:

www.enac.fr > campus > campus accommodation > Click here to book now.

Housing details will be given to students accepted by ENAC in June/July for fall semester or in December for spring semester applications.

E-mail address/ account

All ENAC students receive a personal e-mail account. The account is administered through the Study Advisor. Students also get a computer lab card that grants access to ENAC and the computer labs.

The Study Abroad Team

Marc CHOUFFOT Head of International and Corporate Academic Relations	**Stéphanie LOPEZ** International and Corporate Academic Relations Manager	**Maria VAUQUELIN** International and Corporate Academic Relations Manager	**Jocelyne ZANETTE** International & Corporate Academic Relations Assistant

Attached as an appendix; models of Learning Agreement

Ecole Nationale de l'Aviation Civile
7 avenue Edouard Belin BP 54005
31055 TOULOUSE CEDEX 4
Téléphone : 05 62 17 40 00 - site internet : www.enac.fr
Etablissement Public à caractère scientifique, culturel et professionnel - Direction Générale de l'Aviation Civile.

RÉPUBLIQUE FRANÇAISE
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IDENTITE/IDENTITY

Nom de l'étudiant/Name of student: .....Prénom/First name :.....

Sexe/Gender : ❑F❑M

Nom de l'établissement d'envoi/Name of sending institution :.....

Code Erasmus de l'établissement d'envoi (le cas échéant) /Erasmus code (if relevant) : .....

ETABLISSEMENT D'ACCUEIL/HOST INSTITUTION

Nom de l'établissement/Name of receiving institution : École Nationale de l'Aviation Civile.....

Code Erasmus de l'établissement/Erasmus code : F TOULOUS18.....

Pays/Country : FRANCE.....

Période d'études/Study period : ❑semestre 1/semester 1

L'établissement d'accueil délivrera un diplôme ?/Will the receiving institution deliver a degree ?

❑Oui/Yes ❑Non/No ❑Double/Double

DETAILS DU CONTRAT D'ETUDES / DETAILS OF THE LEARNING AGREEMENT

Course unit code (if any) **and page no. of the course catalogue**	**Course unit title in the host institution** (as indicated in the course catalogue)	**Number of ECTS credits**
	IENAC_MAJOR_OPS (ENGLISH)	
	MAJOR Air Operations and Safety (OPS) (ENGLISH)	**20**
MA5014	*Introduction to combinatorial optimization*	*5*
OP5013	*Optimization applied to airlines*	
OP5010	*Airline information system*	
IS5010	*Security of Information System*	
AE5002	*Aircraft Sizing*	*5*
SF5002	*Dependability- safety analysis*	*4*
RG5002	*Aircraft systems certification*	
RG5003	*Aircraft structures certification*	
RG5004	*Engine and powerplant certification*	
RG5020	*Safety Management System*	
AV5002E	*On-board CNS systems*	*4*
CS5015	*Design methodology*	
AV5011	*Automatic Flight Controls*	
ME5001	*Management by quality*	*2*
ME5002	*Processes and performance Management*	
	Choose one MINOR **Example: Air Transport corporations Strategy (or another minor)**	**6**
EC5020E	*Airline strategies*	*6*
EC5021E	*Air transport markets*	
EC5022E	*Pricing and revenue market*	
	PROFESSIONALISATION ERASMUS	**4**
LV5001E or LV5002	*English or French language and culture **(or both)***	*4*
SH5002	*Communicating effectively and managing conflicts*	
	TOTAL CREDITS ECTS	30

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Signature de l'étudiant(e)/Student's signature : Date : ____/_____/ 20
ETABLISSEMENT D'ENVOI/SENDING INSTITUTION *:* «Nous confirmons que ce contrat d'études est approuvé/We confirm that the learning agreement is approved». Nom, et signature du coordinateur de département/faculté Departmental coordinator's signature — Nom et signature du coordinateur d'établissement Institutional coordinator's signature Date : ____/_____/ 20 — Date : ____/_____/ 20
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❑Oui/Yes ❑Non/No ❑Double/Double

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	IENAC_SEMESTER_7 (IN FRENCH)	
	MAJOR Air Transport Operations and Safety (OPS)	**18**
AE4007	*Propulsion*	*3*
AE4003	*Flight qualities*	
CA4001	*ATC procedures*	*8*
MT4001	*Aeronautical meteorology*	
OP4001	*Use limits and flight conduct*	
RG4005	*Performances certification*	
OP4901	*Tutored project*	
RG4040	*Airworthiness monitoring and maintenance*	*5*
RG4014	*Air transport technical regulation*	
OP4910	*Technical Project*	*2*
	Choose one MINOR **Example: Air Conceptual Design (or another minor)**	**6**
OP4002	*Design Oriented Air Operations Vision*	*6*
AE4014	*Conceptual definition of plane: hear of domain*	
AE4015	*Conceptual definition of airplane: deepenings*	
CA4004	*New approaches, New tools, perspectives*	
	COMMON TEACHING	**6**
IP4000	*Introduction to C language*	*4*
IP4010	*POO Python*	
MA4007	*Stochastic process*	
MA4009	*Non linear optimisation*	
LV4001E	*Professional English semester 7*	*2*
EP4003	*Sport*	
	TOTAL CREDITS ECTS	30

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Période d'études/Study period : ❑semestre 1/semester 1 ❑semestre 2/semester 2

L'établissement d'accueil délivrera un diplôme ?/Will the receiving institution deliver a degree ?

❑Oui/Yes ❑Non/No ❑Double/Double ❑Conjoint/Joint

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	MSc International Air Transport System Engineering and Design (IATSED)_SEMESTER 9 (ENGLISH)	
	BASIS 3	**3**
LV5601	*Culture and Language French*	
LV504E	*Culture and Language English*	
CP4001E	*Professional learning*	
EC5620E	*Research: intellectual property*	
	ADVANCED ENGINEERING	**8**
CS5600E	*INCOSE Certification*	
RS5601E	*Advanced system modelisation*	
CS5001E	*Advanced safety*	
IS5601E	*Advanced security*	
CS5610E	*Enterprise Architecture*	
SF5601E	*Integrated logistic support*	
	ADVANCED SOFTWARE	**9**
IP5605E	*C++ Programming*	
CS5006E	*Advanced V&V Part 1*	
CS5007E	*Formal methods based V&V 2*	
IP5005E	*OOP oriented toward C++ certification*	
IP5610E	*Data Science 2*	
IW5601E	*Open connected system 2*	
IW5602E	*Web programming*	
	AIR TRANSPORT BLOCK 3	**4**
AT5601E	*ATC Systems*	
AT5605E	*ATC Tools*	
OP5610E	*Airline*	
AT5610E	*The Way towards Trajectory Based Operation*	
	PROJECT	**6**
TX5610E	*Capstone Project*	
	TOTAL CREDITS ECTS	**30**

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	MSc International Air Transport System Engineering and Design (IATSED)_SEMESTER 8 (ENGLISH)	
	BASIS 2	**5**
EE4601	*Electrical engineering*	
AV4602	*Mechanical and material engineering*	
LV4602	*Language*	
	ENGINEERING BLOCK 2	**5**
CS4608	*Cross cutting System engineering 1*	
RS4601	*Architecture and design definition*	
IS4601	*Information security management*	
	SOFTWARE BLOCK 2	**6**
IP4608	*Object oriented programming*	
IP4610	*Data Science 1*	
IH4601	*Interactive Software Engineering*	
IP4620	*Robust programming*	
IS5602	*Secure programming*	
IS5605	*Cryptography*	
	AIR TRANSPORT BLOCK 2	**4**
AT4604	*Civil Aviation International Context 2*	
AT4606	*System Wide Information Management*	
AT4610	*Aircraft 2*	
	PROJECT SUB SYSTEM DEVELOPMENT	**10**
TX4920	*Project Sub system development*	
	TOTAL CREDITS ECTS	**30**

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Nom, et signature du coordinateur de département/faculté
Departmental coordinator's signature

Date : ____/_____/ 20

Nom et signature du coordinateur d'établissement
Institutional coordinator's signature

Date : ____/_____/ 20

ETABLISSEMENT D'ACCUEIL/HOST INSTITUTION: «Nous confirmons que ce contrat d'études est approuvé/We confirm that the learning agreement is approved».

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	MSc International Air Transport System Engineering and Design (IATSED)_SEMESTER 7 (ENGLISH)	
	BASIS 1	**4**
MA4600E	*Probability and stochastic processes*	
LV4601	*Culture and language French*	
LV406E	*Culture and language English*	
RE4601E	*Research: state of the art*	
	ENGINEERING BLOCK 1	**6**
CS4600E	*System engineering introduction*	
CS4602E	*Technical management process*	
CS4604E	*Technical process 1*	
CS4606E	*Safety assurances*	
	SOFTWARE BLOCK 1	**4**
IP4602E	*Python Programming*	
IP4600E	*SGBD*	
IW4601E	*COO-UML*	
IW4602E	*Open connected system*	
	AIR TRANSPORT BLOCK 1	**6**
EA4603E	*Air transport*	
EA4604E	*Airport*	
AT4601E	*Air Traffic Management*	
RG4606E	*Civil Aviation International Context*	
AV4601E	*Aircraft*	
	PROJECT CALL FOR TENDER	**10**
TX4900E	*Project "Ice breaking"*	
TX4910E	*Project "Dual Transport"*	
	TOTAL CREDITS ECTS	**30**

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Fair translation of grades must be ensured and the student has been informed about the methodology.
Si nécessaire, utilisez une feuille séparée/*if necessary, continue the list on a separate sheet.*

RÉPUBLIQUE FRANÇAISE
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Égalité
Fraternité

ENAC

Signature de l'étudiant(e)/Student's signature : Date : ____/_____/ 20
ETABLISSEMENT D'ENVOI/SENDING INSTITUTION : «Nous confirmons que ce contrat d'études est approuvé/We confirm that the learning agreement is approved». Nom, et signature du coordinateur de département/faculté Departmental coordinator's signature — Nom et signature du coordinateur d'établissement Institutional coordinator's signature Date : ____/_____/ 20 — Date : ____/_____/ 20
ETABLISSEMENT D'ACCUEIL/HOST INSTITUTION: «Nous confirmons que ce contrat d'études est approuvé/We confirm that the learning agreement is approved». Nom et signature du coordinateur de département/faculté Departmental coordinator's signature — Nom et signature du coordinateur d'établissement Institutional coordinator's signature Date : ____/_____/ 20 — Date : ____/_____/ 20

RÉPUBLIQUE FRANÇAISE
Liberté Égalité Fraternité

IDENTITE/IDENTITY

Nom de l'étudiant/Name of student: .....Prénom/First name :.....

Sexe/Gender : ❑F❑M

Nom de l'établissement d'envoi/Name of sending institution :.....

Code Erasmus de l'établissement d'envoi (le cas échéant) /Erasmus code (if relevant) : .....

ETABLISSEMENT D'ACCUEIL/HOST INSTITUTION

Nom de l'établissement/Name of receiving institution : École Nationale de l'Aviation Civile.....

Code Erasmus de l'établissement/Erasmus code : F TOULOUS18.....

Pays/Country : FRANCE.....

Période d'études/Study period : ❑semestre 1/semester 1 ❑semestre 2/semester 2

L'établissement d'accueil délivrera un diplôme ?/Will the receiving institution deliver a degree ?

❑Oui/Yes ❑Non/No ❑Double/Double ❑Conjoint/Joint

DETAILS DU CONTRAT D'ETUDES / DETAILS OF THE LEARNING AGREEMENT

Course unit code (if any) **and page no. of the course catalogue**	**Course unit title in the host institution** (as indicated in the course catalogue)	**Number of ECTS credits**
	AS-NAT_SEMESTER 7 (ENGLISH)	
	FUNDAMENTALS OF MATHEMATICS	**6**
MA414E	*Theory of distributions for signal processing*	
MA405E	*Probability / Statistics*	
MA406E	*Stochastic Processes*	
	FUNDAMENTALS OF SIGNAL PROCESSING AND ELECTROMAGNETICS	**11**
MO404E	*Electromagnetics*	
SP4002E	*Signal theory and signal processing*	
SP4003E	*Digital signal processing*	
EE4002E	*Analog filtering*	
AU408E	*Linear servo loop system*	
	GNSS 1	**4**
NA402E	*Introduction to GNSS and its evolutions*	
	INTRODUCTION TO PROGRAMMING	**4**
IP405E	*Programming and C language*	
	APPLIED PROJECT 1	**3**
NA497E	*PVT computation project*	
	LANGUAGE AND HUMAN SCIENCE 1	**2**
LV401	*Culture and language French*	
LV406E	*Culture and language English*	
	TOTAL CREDITS ECTS	**30**

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