Collaborative Degree **Aero-System Operations** (AESOP)

Program factsheet

ACADEMIC COOPERATION

Consortium of two universities:

› **USA:** University of Cincinnati (Ohio).
› **FRANCE:** University of Bordeaux: College of Science and Technology.

ADMISSION REQUIREMENTS

University of Bordeaux:

› Hold a European Bachelor degree or a European Professional Bachelor diploma with 180 ECTS/90 US credits within a College of Science. This training must be accompanied by three years professional experience; or
› Hold a Master degree with at least 240 ECTS/120 US credits within a College of Science.

University of Cincinnati:

› Hold a US Bachelor degree with 240 ECTS/120 US credits within a College of Science.

LEVEL

Collaborative Degree Program.

PROGRAM DURATION

1 year (60 ECTS - 30 US credits).

LANGUAGE REQUIREMENTS

Students for whom English is not the mother language require a minimum level of: IELTS (6,5 mini), Pearson (59, TOEFL (85), European Level (B2), TOEIC (750).

TUITION FEES

› Annual tuition fees: 24,000 USD

Significant reductions exist upon application, depending on the university/country of origin:

› Students from partner universities: 11,000 USD
› Students from other international universities: 15,000 USD

Program outline

With global competition and the consumer demand for innovation becoming ever-more imperative, the need for collaborative engineering is prevalent throughout today's market. The realm of air traffic management and safety —both civilian and defense— is no different.

The University of Bordeaux/IMA and the University of Cincinnati College of Engineering and Applied Science (UC CEAS) have partnered to develop the Aero-System Operations (AESOP) Collaborative Degree Program.

Students at each university pursue UC CEAS' Master of Engineering Degree and UBx's International Diploma concurrently and graduate with **both degrees**. This program offers a practice-oriented, individualized degree that prepares engineers to excel in today's working world.

Strengths

Engineering fields, as a whole, have experienced explosive growth over the past decade, especially that of Aeronautical, Mechanical, Electrical, Electronic and Computer Engineering as well as Computer Science.

In today's competitive technology environment, top opportunities are going to skilled engineers who have broad professional capabilities. The AESOP curriculum provides advanced training to those interested in expanding their knowledge and expertise. Advantages of the graduate degree include:

› Maintain licensure requirements with graduate courses

› Gain a unique international graduate study experience

› Expand your knowledge and marketability

› Broaden your understanding of engineering through an interdisciplinary focus

› Increase your earning potential

› Follow some courses online

College of Science and Technology

université de BORDEAUX

Program structure Collaborative Degree **Aero-System Operations**

Semester 1 — Semester 2

Basics | Technical Specialty | Aero System Operations | Aero System Operations

Courses — Practical courses — Capstone

Fall semester: Cincinnati

Basics (18 credits)

AESOP Program Requirement (6 credits, mandatory)

› Introduction to Aircraft Systems
› Regulations and Maintenance

Project / Task Management Development (6 credits, choose one)

› Engineering Economic Analysis
› Quality Control
› Project Management
› Entrepreneurship and Technology Law

Interpersonal Skill Development (6 credits, choose one)

› Management of Professionals
› Leadership
› Effectiveness in Technical Organizations

Technical Specialty (12 credits, choose two courses)

› Aeronautical Engineering
› Mechanical Engineering
› Electrical, Electronic and Computer Engineering
› Computer Science

Spring semester: Bordeaux

Aero-System Operations (22 credits)

Airworthiness UBx/ENAC and Maintenance Program Planning (6 ECTS, mandatory)

Each module includes theory, applications and lab
(4 ECTS, choose one):

› Maintenance Repair & Overhaul
› Continuous Airworthiness Maintenance Organization

Each module includes theory, applications and lab
(12 ECTS, choose one):

› Avionics Maintenance
› Structural Aircraft Maintenance
› Propulsion Aircraft Maintenance

Aero-System Operations (8 credits)

Capstone project: project or internship with choice of sponsored research at UBx laboratory or internship at industry level.

→ *And after?*

Studies:

› The AESOP program provides a complete panel of individual training modules about Aerospace Operations, Aircraft Maintenance and Aircraft Life Management Cycle. After graduating, these modules may be followed individually, thus bringing complementary qualifications.

Employment market:

› After obtaining the international AESOP Collaborative Degree, graduates will be equipped to quickly and efficiently take on an operational position within the aircraft industry.

How to apply?

UBx students:
› http://www.u-bordeaux.com/Education/International-study-offer/Programs/Science-and-Technology

UC students:
› http://www.uc.edu/admit.html

Contact

PROGRAM COORDINATORS:

UBx / IMA, Mérignac

Olivier Puissant
olivier.puissant@u-bordeaux.fr

Franck Cazaurang
franck.cazaurang@u-bordeaux.fr

› **https://ima.u-bordeaux.fr**

UC

Kelly Cohen
cohenky@ucmail.uc.edu

Eugene Rutz
rutzee@ucmail.uc.edu

› **www.uc.edu**