Collaborative Degree
Aero-System Operations

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.

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

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
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

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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.

Program structure

Collaborative Degree Aero–System Operations

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.

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

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Program structure

Semester 1

Basics
- Courses
- Technical Specialty

Semester 2

Aero System Operations
- Practical courses
- Capstone

Fall semester: Cincinnati

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