

Short-term Study Abroad, May 14-29, 2024

Sustainable Aviation in France



Instructor: Prof. Li Qiao

PROGRAM DESCRIPTION:

Sustainable aviation is essential to the global goal of achieving carbon-neutrality by 2050. In this course, we will start by exploring the fundamentals of aircraft propulsion systems and their environmental impacts. We will subsequently move on to explore potential solutions, with a focus on three aspects: (1) alternative fuels; (2) hydrogen technologies; and (3) electrified aircraft. Upon completion of this course, students will be equipped with the latest knowledge of technical solutions and possibilities of modern engineering to make aviation more sustainable. Moreover, the course will also encourage critical and creative thinking about the future of aviation and how you can play a role. Additionally, students will gain exposure to European sustainability efforts through industrial visits to Airbus Space & Defense and Saft Batteries. They will also be able to explore cultural sites across France, allowing them to truly experience the French art de vivre.

ACADEMIC CREDIT: Earn 3 credits for AAE 49000.

ELIGIBILITY: Students in all relevant engineering majors are eligible. Preference is given to AAE students. Must be in good academic standing.

APPLICATION: Applications will be accepted on a rolling basis. 20 spots available.

<https://www.studyabroad.purdue.edu/programs/flyer.cfm?flyer=1835>



For questions, please contact Li Qiao, Professor of Aeronautics & Astronautics,
lqiao@purdue.edu