



AEROSPACE SHORT COURSES

SPRING 2021 – SPRING 2022

KU

LIFELONG
& PROFESSIONAL
EDUCATION

The University of Kansas

Get ready for this year's projects, refresh your knowledge and skills, earn a certificate and advance your career.

Online Courses • Spring 2022 Schedule
Free History of Airplane Design Webinars



DEAR COLLEAGUES,



We hope this message finds you well. While the last year has brought changes and challenges, we know your need for relevant, quality

professional training remains as necessary as ever. KU Aerospace Short Courses remains committed to providing valuable, relevant professional development that meets your needs.

Aerospace learning and instruction is ongoing through a variety of platforms in 2021. In addition to our scheduled public courses this year in San Diego and Orlando, you can take advantage of more online Aerospace Short Courses and free webinars than ever before.

KU Aerospace Short Courses also offers online trainings that you can request specifically for your organization, allowing you to avoid

travel costs and receive professional development uniquely tailored to your team's schedule and needs. You can learn where you work, take advantage of flexible delivery, train more people for less, or meet specific needs for small groups of employees.

KU Aerospace Short Courses stands ready to meet your training needs, whatever they may be. Whether you plan to attend a public course, want to register for a scheduled course offering or engage your team in online learning right from their desks, visit our page at [LPE.ku.edu/aero-short-courses-home](https://lpe.ku.edu/aero-short-courses-home) for a full listing of available programs.

Rock Chalk,

Sharon Graham
Vice Provost, KU Lifelong & Professional Education

CONTENTS

2021-2022 Public Course Information	3
History of Airplane Design Webinar Series	3
Fall 2021 – Spring 2022 Public Courses	4-5
Available Online Courses	6
Certificates of Specialization; How To Register	7

LET OUR TEAM TRAIN YOUR TEAM ONLINE.

KU's Aerospace Short Course Program delivers dependable professional training where you are. Train a small group or large team with online short courses delivered right to your organization by our expert instructors. Select the topics your team needs most and take advantage of flexible scheduling that reduces time away from work.

Why bring online learning to your business?

- Competitive pricing
- Flexible scheduling
- Maintain company confidentiality
- Avoid travel expenses
- Multiple course delivery options
- Content focused on your needs

To learn more about bringing online professional development to your organization, contact Marina Enclarde at professionalprograms@ku.edu or 913-897-8781.

FALL 2021 – SPRING 2022 PUBLIC COURSE INFORMATION

Visit each program’s website listed below for details on the course venue, accommodation options, course descriptions, registration information and other relevant information.

SAN DIEGO, CALIFORNIA

San Diego Marriott Mission Valley

Week One: September 6-10, 2021

Week Two: September 13-17, 2021

LPE.ku.edu/aero-sandiego

ORLANDO, FLORIDA

B Resort

October 18-22, 2021

LPE.ku.edu/aero-orlando

SEATTLE, WASHINGTON

DoubleTree by Hilton Seattle

Airport Southcenter

March 28-April 1, 2022

LPE.ku.edu/aero-seattle

COURSE REGISTRATION FEES

Class Length	Face-to-Face Course	Online Course
1-day class	\$895*/\$945	N/A
3-day class	\$1,895*/\$1,995	\$1,595/\$1,795*
4-day class	\$2,195*/\$2,395	\$1,795/\$1,995*
5-day class	\$2,495*/ \$2,695	\$1,995/\$2,195*

Early Registration

* Early registration – Save up to \$200 on the course registration fee when you register and pay at least 45 days in advance for face-to-face courses, and seven or more days in advance for online courses.

HISTORY OF AIRPLANE DESIGN WEBINAR SERIES • FREE FOR ALL PARTICIPANTS!



Join Dr. Jan Roskam for the *History of Airplane Design* webinar series, profiling top aircraft design and production companies. Dr. Roskam is a distinguished expert in the field of aerospace engineering, world-renowned for his work in design. He is the founder of the KU Aerospace Short Course Program, and the Ackers Distinguished Professor Emeritus of Aerospace Engineering, University of Kansas. Visit LPE.ku.edu/aero-online to register.

The Russian Airplane Manufacturers, Part I: Ilyushin, MIG, Yakovlev and Beriev

April 21, 2021 • 11:00 a.m. – Noon CT

The Russian Airplane Manufacturers, Part II: Tupolev, Sukhoi and Antonov

May 12, 2021 • 11:00 a.m. – Noon CT

The Japanese Airplane Manufacturers: Kawanishi, Kawasaki, Mitsubishi, Nakajima and Kyushu

June 16, 2021 • 11:00 a.m. – Noon CT

A Mix of Airplane Manufacturers, Part I: SAAB, Embraer, Blohm & Voss, Fieseler, Mooney and Aero Commander

July 14, 2021 • 11:00 a.m. – Noon CT

A Mix of Airplane Manufacturers, Part II: Shorts, Saunders-Roe, Britten-Norman, Armstrong-Whitworth, Cirrus, Diamond, PZL and Pipistrel

Aug. 18 • 11:00 a.m. – Noon CT

FALL 2021 – SPRING 2022 PUBLIC COURSES BY DATE AND LOCATION

SAN DIEGO, CALIFORNIA | SEPTEMBER 6-10, 2021 | WEEK ONE

San Diego Marriott Mission Valley | LPE.ku.edu/aero-sandiego

MONDAY 9/6 (HOLIDAY)	TUESDAY 9/7	WEDNESDAY 9/8	THURSDAY 9/9	FRIDAY 9/10
	Aircraft Icing: Meteorology, Protective Systems, Instrumentation and Certification			
	Application of Human Factors Engineering to the Life Cycle Management of Aeronautical Products and Systems			
	Cybersecurity Fundamentals for Aerospace Design, Engineering and Operations			
	Dynamics for Aerospace Structures			
Electrical Wiring Interconnection System (EWIS) and FAA Requirements				
	FAA Aircraft Certification and Airworthiness Approvals			
	FAA Type Certification Plan Development			
	MIL-STD Qualification: Purpose, Testing and Design Considerations			
	Systems and Safety for Electric/Hybrid Electric Aircraft and Urban Air Mobility			

SAN DIEGO, CALIFORNIA | SEPTEMBER 13-17, 2021 | WEEK TWO

San Diego Marriott Mission Valley | LPE.ku.edu/aero-sandiego

MONDAY 9/13	TUESDAY 9/14	WEDNESDAY 9/15	THURSDAY 9/16	FRIDAY 9/17
Aircraft Structures: Analysis and Design				
Airplane Flight Dynamics				
Complex Electronic Hardware Development and D0-254			Integrated Modular Avionics (IMA) and D0-297	
Electrical Wiring Interconnection System (EWIS) Safety Assessment – 25.1709				
Future Propulsion Systems and Energy Sources in Sustainable Aviation				
High Intensity Radiated Fields (HIRF) Certification and Compliance				
Operational Test and Evaluation: User-Centric Systems Testing				
Principles of Aeroelasticity				
System Safety Assessment for Commercial Aircraft Certification				

DISCOUNTS

★ U.S. Federal Employee discount

All courses are available to U.S. federal employees at 10% off the registration fee. To receive the federal employee discount, you must enter the code FGVT116 on the registration form or during the online checkout process.

🍁 Canada Department of National Defence Discount

Most courses are available to Canada DND employees at 10% off the registration fee. Please contact the DND

Procurement Authority (DAP 2-3) for details. Please note that you cannot register using our online system when requesting this discount.

🇳🇱 Netherlands Defence Academy Discount

All courses are available to Netherlands Defence Academy employees at a discounted registration fee. Please contact the NDA Procurement and Contracting department for details. You cannot register using our online system when requesting this discount.

FALL 2021 – SPRING 2022 PUBLIC COURSES BY DATE AND LOCATION

ORLANDO, FLORIDA | OCTOBER 18-22, 2021

B Resort | LPE.ku.edu/aero-orlando

MONDAY 10/18	TUESDAY 10/19	WEDNESDAY 10/20	THURSDAY 10/21	FRIDAY 10/22
Aircraft Avionics Test and Evaluation Fundamentals				
Cabin Safety and Crashworthiness of Aircraft Cabin Interiors				
Civil and Military Certification of Propulsion Systems to Support Aircraft and Helicopter Operations				
Electromagnetic Effects Aircraft Level Testing and FAA Requirements				
Flight Testing Unmanned Aircraft Systems – Unique Challenges				
Fundamentals of V/STOL Rotorcraft				
Operational Aircraft Performance and Flight Test Practices				
			The Regulations of Maintenance – AEA	
Software Safety, Certification and DO-178C				

SEATTLE, WASHINGTON | MARCH 28-APRIL 1, 2022

DoubleTree Suites by Hilton Hotel Seattle Airport Southcenter | LPE.ku.edu/aero-seattle

MONDAY 3/28	TUESDAY 3/29	WEDNESDAY 3/30	THURSDAY 3/31	FRIDAY 4/1
Aerodynamic Design of Commercial Airplanes				
Electrical Wiring Interconnection System (EWIS) and FAA Requirements				
FAA Aircraft Certification and Airworthiness Approvals				
Flight Test Principles and Practices				
Introduction to Electromagnetic Effects (EME) and Aircraft Engineering Requirements				
Stress Analysis for Aerospace Structures				
Structural Composites				
System Safety Assessment for Commercial Aircraft Certification				

LOOKING FOR AN ONLINE COURSE?

KU Aerospace Short Courses has 50 courses offered online at regularly scheduled times and/or available to deliver live online to your organization.

Visit LPE.ku.edu/aero-online-courses to learn more and view the complete online course schedule.



AVAILABLE ONLINE COURSES

Advance your knowledge, skills and career from wherever you are.

We're actively developing new online learning opportunities so you can continue meeting your professional development goals. Now you can take advantage of high-quality and engaging live online Aerospace Short Courses – our highest-demand topics from instructors working in industry and academia. Visit our Online Learning page at [LPE.ku.edu/aero-online-courses](https://lpe.ku.edu/aero-online-courses) for complete details.



Upcoming 2021 online courses:

- **April 5, 2021** – Flight Test Principles and Practices
- **April 26, 2021** – Flight Control and Hydraulic Systems
- **April 26, 2021** – System Safety Assessment for Commercial Aircraft Certification
- **April 27, 2021** – Introduction to Electromagnetic Effects (EME) and Aircraft Engineering Requirements
- **May 3, 2021** – FAA Aircraft Certification and Airworthiness Approvals
- **June 1, 2021** – Aerodynamic Design of Commercial Airplanes
- **June 7, 2021** – Structural Composites
- **June 7, 2021** – Instructions for Continued Airworthiness Using Enhanced Zonal Analysis Procedure



Stay tuned for more information on these courses, or request them for your organization:

- Aircraft Icing: Meteorology, Protective Systems, Instrumentation
- Aircraft Structures: Analysis and Design
- Airplane Flight Dynamics
- Complex Electronic Hardware Development and DO-254
- Electrical Wiring Interconnection System (EWIS) and FAA Requirements
- Electrical Wiring Interconnection System (EWIS) Safety Assessment – 25.1709
- Electromagnetic Effects Aircraft Level Testing and FAA Requirements
- Flight Testing Unmanned Aircraft Systems – Unique Challenges
- Fundamentals of V/STOL Rotorcraft
- High Intensity Radiated Fields (HIRF) Certification and Compliance
- Introduction to RTCA DO-160 Qualification: Purpose, Testing and Design Considerations
- Operational Aircraft Performance and Flight Test Practices
- Operational Test and Evaluation: User-Centric Systems Testing

Don't see the course you want? More online courses are currently in development – let us know which course(s) you need. Contact Marina Enclarde at professionalprograms@ku.edu or 913-897-8781 for more information.

CERTIFICATES OF SPECIALIZATION

Certificates of Specialization are for those who desire concentrated study in a specific area of interest. Achieving a Certificate of Specialization demonstrates to employers, coworkers and the aerospace industry that you are qualified, competent and current in your field. Complete four courses within one of the following nine specializations to earn a certificate:

- Aerospace Compliance (AC)
- Aircraft Design (AD)
- Aircraft Maintenance and Safety (AMS)
- Aircraft Structures (AS)
- Avionics and Avionic Components (AAC)
- Electromagnetic Effects (EME)
- Electrical Wiring Interconnected System (EWIS)
- Flight Tests and Aircraft Performance (FT)
- Unmanned Aircraft (UA)

Visit [LPE.ku.edu/aero-short-courses-home](https://lpe.ku.edu/aero-short-courses-home) for more information on certificates of specialization and required courses.

HOW TO REGISTER

To Register Online

Visit www.enrole.com/kupce or scan the QR code.



Register By Mail

- Download the registration form (PDF) from our website.
- Complete the form and attach a check or money order payable to University of Kansas. Please reference LPE on your check.
- Mail the form and payment to:
KU Lifelong & Professional Education
Contact Center
12600 Quivira Road
Overland Park, KS 66213 USA

Register By Phone

Please contact us at 913-897-8530.

Payment

All fees are payable in U.S. dollars and due upon registration.

Payment by credit card

Online registrations must be paid by credit card. KU accepts MasterCard, VISA, Discover and American Express.

Payment by check (personal or company check) or money order

Please mail your registration form and a check or money order in U.S. dollars to the address listed above. Make your check or money order payable to "The University of Kansas". Please reference LPE on the check. A \$30 fee will be charged for returned checks.

Payment by purchase order or wire transfer

KU Lifelong & Professional Education requires payment upon registration. If your organization requires use of a purchase order before payment is issued or must pay by wire transfer, please contact us at LPE@ku.edu. Please note that to receive the Early Registration Discount, full payment will be required before the early registration deadline as listed on each course page.

Visit [LPE.ku.edu/aero-registration](https://lpe.ku.edu/aero-registration) for more registration details and policies.

AEROSPACE SHORT COURSES

SPRING 2021 – SPRING 2022

Explore inside to find ...

- Upcoming online courses
- In-person courses for 2021-2022
- Info on free webinars
and more!