On-Site Training

UCLA Extension also offers customized technology and engineering training that can be offered on-site at your workplace. These fast, flexible, specialized programs can help you achieve your goals, stay up to date on current trends, and learn about cutting-edge technology. Benefits of having UCLA Extension training on-site include:

- Customizable to suit your company’s needs
- Allows for open and confidential discussions among employees
- Flexibility to accommodate a greater number of attendees
- Additional cost savings by eliminating employee travel expenses
- Each attendee receives a record of participation and continuing education units from UCLA Extension

Courses are offered on a variety of technical subjects, including aerospace and mechanical engineering, biomedical engineering, communications and sensors engineering, electronics, leadership and project management, and more.

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Multirate Signal Processing in Transmitter and Receiver Designs
sciextension.us/m/multirate
This course presents the structure, unique attributes and capabilities, and implementation considerations of standard multirate filter structures including polyphase, dyadic half-band, and Cascade Integrator-Comb (CIC). The course also reviews the functional tasks of modulators and demodulators, and identifies where and how multirate signal processing can be inserted in the signal flow paths to improve performance, enhance capabilities, and reduce cost of system implementation.
Coordinator & Lecturer:
Fredric Harris, PhD, Professor of Electrical and Computer Engineering, University of California, San Diego
Dates: October 21 & 22, 2019
Reg#: 370459
Course No.: EC ENGR 810.80
Units: 1.2 CEUs
Fee: $2,205
Multitarget/Multisensor Data Fusion Techniques
sciextension.us/m/multitarget
This revised two-day course introduces the student to sensor and data fusion methods that improve the probability of correct target detection, classification, identification, and state estimation. These techniques combine information from colocated or dispersed sensors that utilize either similar or different technologies to generate target signatures or imagery. The course covers the effects of the atmosphere and countermeasures on millimeter-wave and infrared sensors to illustrate how the use of different phenomenology-based sensors enhances the effectiveness of a data fusion system.
Coordinator & Lecturer:
Lawrence Klein, PhD, consultant specializing in multiple sensor concepts used for military applications
Dates: October 21 & 15, 2019
Reg#: 370411
Course No.: EC ENGR 860.50
Units: 1.2 CEUs
Fee: $2,205
Fundamentals of Lithium-Ion Battery Technology Applications and Advances
sciextension.us/m/lithium-ion
This course provides a foundation for understanding the general principles and fundamentals of lithium-ion (Li-Ion) rechargeable battery engineering. The effects of Li-ion cell chemical, electrical, thermal, and mechanical design features on performance characteristics will be discussed in terms of meeting application unique requirements for battery design. Methods for battery cell requirements engineering, trade study analyses, architecture options, and test protocols will be discussed. A comprehensive review of Li-ion battery safety in will be provided.
Coordinator & Lecturer:
Thomas Barrera, PhD, President, Lithium-Ion Battery (LIB)-X Consulting
Dates: November 12 & 13, 2019
Reg#: 370072
Course No.: EC ENGR 901.02
Units: 1.2 CEUs
Fee: $2,295
Predictive Business Analytics
sciextension.us/m/predictive-analytics
Learn analytical tools and techniques for anticipating and exploiting the changing competitive environment by mining data to determine the influences on business, society, politics, the economy, the environment, and technology. Identify immediate actions you should take to exploit opportunities and avoid catastrophes. Your action plan will propel your business forward and drive the application of data science in your industry.
Coordinators & Lecturers:
Carol Jacoby, PhD, specializes in analytical techniques for data science, system effectiveness prediction, systems engineering and decision analysis
Dates: December 3-5, 2019
Reg#: 370076
Course No.: MGMT 815.15
Units: 1.8 CEUs
Fee: $3,995
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These things are what makes working in a technical field so exciting and also why continuing education is so important. UCLA Extension short courses give you the tools you need to upgrade your career or take off in an exciting new direction in just 2-5 days. You’ll get intensive training in a variety of cutting-edge technical fields, giving you technical and practical knowledge you can apply immediately.

Our world-class instructors are selected from the top ranks of industry and academia, so you get relevant, real-world education from experts in the field. For more than 50 years, UCLA Extension has presented technical and management short courses for engineers, IT professionals, and technical managers seeking to keep abreast of new and rapidly changing technologies.

Enrollment Discounts

Save on enrollment costs when you enroll at least one month prior to the start of a course. UCLA Extension short courses also offer a special Team Advantage discount. For every three members you enroll, you can add a fourth enrollment for free.

Multirate Signal Processing in Transmitter and Receiver Designs

This revised two-day course introduces the student to multirate filter structures, including polyphase, dyadic half-band, and Cascade Integrator-Comb (CIC) structures. The course also reviews the functional basis of modulators and demodulators, and identifies where and how multirate signal processing can be inserted in the signal flow paths to improve performance, enhance capabilities, and reduce cost of system implementation.

Coordinator & Lecturer:
Fredric Harris, PhD, Professor of Electrical and Computer Engineering, University of California, San Diego

Dates: October 23 & 24, 2019
Reg# 370409
Course No. EC ENGR 860.50
Units: 1.2 CEUs
Fee: $2,295

Fundamentals of Lithium-Ion Battery Technology Applications and Advances

This course provides a foundation for understanding the general principles and fundamentals of lithium-ion (Li-Ion) rechargeable battery engineering. The effects of Li-Ion cell chemical, electrical, thermal, and mechanical design features on performance characteristics will be discussed in terms of meeting application unique requirements for battery design. Methods for battery cell requirements engineering, trade study analyses, architecture options, and test protocols will be discussed. A comprehensive review of Li-Ion battery safety in will be provided.

Coordinator & Lecturer:
Thomas Barreto, PhD, President, Lithium-Ion Battery (LIB-X) Consulting

Dates: November 12 & 13, 2019
Reg# 370092
Course No. EC ENGR 901.02
Units: 1.2 CEUs
Fee: $2,295

Multitarget/Multisensor Data Fusion Techniques

This revised two-day course introduces the student to sensor and data fusion methods that improve the probability of correct detection, classification, identification, and state estimation. These techniques combine information from colocated or dispersed sensors that utilize either similar or different technologies to generate target signatures or imagery. The course covers the effects of the atmosphere and countermeasures on millimeter-wave and infrared sensors to illustrate how the use of different phenomenology-based sensors enhances the effectiveness of a data fusion system.

Coordinator & Lecturer:
Lawrence Kleim, PhD, consultant specializing in multiple sensor concepts used for military applications

Dates: October 21 & 22, 2019
Reg# 370409
Course No. EC ENGR 810.80
Units: 1.2 CEUs
Fee: $2,295

Transitioning from Technical to Managerial Responsibilities

One set of skills centers on the Leadership Skills or “soft people skills” necessary to accomplish change and get results through others. These include understanding and applying the theories of effective leadership behaviors. In-class self-assessments provide you with insights on how to sharpen your people skills by increasing your awareness and abilities in motivating others, using effective management styles, and building team relationships with your subordinates, peers, and supervisor.

Coordinator & Lecturer:
Chris Christensen, MS, MBA, President, Christensen Associates, Inc., Playa del Rey, California

Dates: November 12 & 13, 2019
Reg# 370545
Course No. MGMT 815.01
Units: 1.2 CEUs
Fee: $2,295

Predictive Business Analytics

Learn analytical tools and techniques for anticipating and exploiting the changing competitive environment by mining data to determine the influences on business, society, politics, the economy, the environment, and technology. Identify immediate actions you should take to exploit opportunities and avoid catastrophes. Your action plan will propel your business forward and drive the application of data science in your industry.

Coordinators & Lecturers:
Chris Christensen, MS, MBA, President, Christensen Associates, Inc., Playa del Rey, California
Carol Jacoby, PhD, specializes in analytical techniques for data science, system effectiveness prediction, systems engineering and decision analysis

Dates: December 3-5, 2019
Reg# 370073
Course No. MGMT 815.15
Units: 1.8 CEUs
Fee: $2,295

Discounts cannot be combined. Some limitations apply.
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UCLA Extension Short Courses

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Coordinator & Lecturer:

Thomas Barrera, PhD, President, Lithium-Ion Battery (LIB)-X Consulting

Dates: November 12 & 13, 2019
Reg# 370079
Course No. EC ENGR 80102
Units: 1.2 CEUs
Fee: $2,295

Predicative Business Analytics

Learn analytical tools and techniques for anticipating and exploiting the changing competitive environment by mining data to determine the influences on business, society, politics, the economy, the environment, and technology. Identify immediate actions you should take to exploit opportunities and avoid catastrophes. Your action plan will propel your business forward and drive the application of data science in your industry.

Coordinators & Lecturers:

Chris Christensen, MS, MBA, President, Christensen Associates, Inc., Playa del Rey, California
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Dates: December 3-5, 2019
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Stay on Course at Your Workplace

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