Electronic Design Group's
Lunch and Learn
Course Catalog

Electronics Design Group is proud to be a Continuing Education Systems (CES) Registered Provider for the American Institute of Architects (AIA). EDG is committed to developing and delivering quality material to aid in the professional development of the architectural community.

Our course catalog outline on the opposite page contains seminars designed to elevate the awareness level of architects to various electronics integration topics and design opportunities. All seminars will be presented in a "Lunch and Learn" format.

Course ID	Courses Available	CEUs	Fees	Sustainable Design
EDG-LNL101-E	Designing Spaces for Multiple Viewing Screens	1LU	Free	-
EDG-LNL102-E	Practical Applications for Residential Lighting Control	1LU HSW	Free	✓
EDG-LNL103-E	Control System Integration for Residential Applications	1LU HSW	Free	-
EDG-LNL104-E	Applications for NY Residential Lighting Control	1LU HSW	Free	✓
EDG-LNL105-E	Intelligent Design for the Smart Home	1LU	Free	-
EDG-LNL106-C	Home Integration for Convenience, Comfort, and Safety	1LU HSW	Free	✓
EDG-LNL107-C	Electronics Systems Infrastructure Requirements	1LU HSW	Free	✓
EDG-LNL108-C	Building Quiet Environments	1LU HSW	Free	✓
EDG-LNL109-C	Home Theater Design and Construction	1LU HSW	Free	✓
EDG-LNL110-C	Home Audio Made Easy	1LU HSW	Free	✓
EDG-LNL111-C	Understanding the Need for Home Technology	1LU HSW	Free	✓
EDG-LNL112-C	Planning for Residential Electronic Systems	1LU HSW	Free	✓
EDG-LNL113-C	Managing Electronic Systems Contractors (ESCs)	1LU	Free	-
EDG-LNL114-C	Home Technology Within the Design and Build Process	1LU HSW	Free	✓
EDG-LNL115-C	Hiding Technology	1LU HSW	Free	✓
EDG-LNL116-C	Lighting Control	1LU HSW	Free	✓
EDG-LNL117-C	Control System Impact on Building Green	1LU HSW	Free	✓
EDG-LNL118-C	Video Displays	1LU HSW	Free	✓
EDG-LNL119-C	Introduction to Electronic Home Entertainment	1LU HSW	Free	✓
EDG-LNL120-C	Introduction to User Interface	1LU HSW	Free	✓
EDG-LNL121-C	Integrating Audio for Performance and Aesthetics	1LU HSW	Free	✓
EDG-LNL122-C	Media & Game Room Design	1LU HSW	Free	✓
EDG-LNL123-N	Boardroom 101	1LU	Free	-
EDG-LNL124-N	Integration of Sound, Lighting & Video into Contemporary Worship Facilities	1LU HSW	Free	-
EDG-LNL125-N	Safe and Effective Use of Electronic Surveillance in Schools	1LU	Free	-
EDG-LNL126-N	Specifying Technology Using '04 CSI MasterFormat/Impact on the ITS Industry	1LU	Free	-

EDG-LNL101-E

Designing Spaces for Multiple Viewing Screens

CEUs: 1LU
Fees: FREE

From living rooms to media rooms, and boardrooms to training rooms, designing spaces with multiple viewing screens is the hot new topic in custom electronics. Participants will understand the benefits and explore the practical applications of these dynamic rooms through case study examples and explore product and system design options, engineering considerations, and common installation challenges.

Topics of discussion will include:
- acoustics
- light control
- window treatments
- video displays
- hiding the equipment
- ease of use
- proper space planning

EDG-LNL102-E

Practical Applications for Residential Lighting Control

CEUs: 1LU HSW
Fees: FREE

Participants will analyze practical applications and benefits for lighting control systems in residential spaces like the kitchen, foyer, dining room, media room, and landscape areas. Through examining case studies, students will evaluate various control scenarios and define areas in a project where lighting control systems can improve aesthetics, enhance functionality, and increase efficiency for the end-user.

Topics of discussion will include:
- dimming technology
- required components of a system
- reduction of wall clutter
- control of preset scenes
- integration with other systems
- space allocation
- time clocks and green considerations
- security enhancements

EDG-LNL103-E

Control System Integration for Residential Applications

CEUs: 1LU HSW
Fees: FREE

Participants will analyze practical applications and benefits of control system integration in a residential application including audio, video, HVAC, lighting, drapery/shades, security, weather, and entry doors. Through examining case studies, students will evaluate various scenarios and define areas in a project where control systems can improve efficiency, enrich room aesthetics and decor, simplify complicated subsystems and enhance whole house functionality for the residential end-user.

Topics of discussion will include:
- whole house integration
- HVAC integration
- controlling subsystems within a single room
- enhancing security features

EDG-LNL104-E

Applications for NY Residential Lighting Control

CEUs: 1LU HSW
Fees: FREE

Participants will analyze applications and benefits of light control systems for New York residential spaces. Through case study format, students will evaluate various scenarios and define areas in a project where light control systems can improve aesthetics, enhance functionality, and increase efficiency for the end-user.

Topics of discussion will include:
- dimming technology
- required components of a system
- reduction of wall clutter
- control of preset scenes
- motorized shades
- integration with other systems
- wireless systems
- space allocation
- time clocks and green considerations
- security enhancements

EDG-LNL105-E

Intelligent Design for the Smart Home

CEUs: 1LU
Fees: FREE

Participants will understand the meaning, components, capabilities, and benefits of "smart home" technology, as well as its relevance to the design process and architectural community. Class members will learn the importance of working with systems integrators, how to determine their qualifications, and to incorporate "smart home" technologies in their designs. Through the examination of a case study, students will evaluate and define areas in a project where "smart home" technology can improve efficiency, enrich room aesthetics, enhance functionality, and meet client expectations.

EDG-LNL106-C

Home Integration for Convenience, Comfort, and Safety

CEUs: 1LU HSW
Fees: FREE

This newly-revised course highlights the benefits of home automation and systems integration. Elements such as security, lighting, temperature control, communications, and entertainment are included in this course, along with discussion of commonly-held misconceptions related to home automation and systems integration. Attendees will take away such vital information as identifying talking points to use with clients and how to locate an electronic systems contractor (ESC) technology partner, while learning effective ways to incorporate technology into their design and build projects.

EDG-LNL107-C
Electronic Systems Infrastructure Requirements
CEUs: 1LU HSW
Fees: FREE

Supporting the multitude of technologies found in today's connected homes requires planning, specialized installation, and a solid infrastructure in place. Attendees will discuss the trends and future technologies and their impact on today's homes, as well as be able to understand the basic infrastructure requirements needed to support these technologies so that they perform at maximum capacity. Participants will be able to define the components of a structured wiring system and list the benefits that correctly installed systems offer to their clients' technology needs.

EDG-LNL108-C
Building Quiet Environments
CEUs: 1LU HSW
Fees: FREE

In today's hectic and fast-paced world, homeowners need and want a space that is peaceful and tranquil—a quiet environment where they can relax and enjoy their home without noisy interruptions. This course outlines the fundamentals of sound control and gives examples of noise pollution affecting today's society. Participants will discuss key principles related to sound isolation and the "why, what, and how" components associated with controlling sound. Construction materials and mechanical, electrical, and plumbing considerations will also be discussed, while the participant is guided through the step-by-step process of building a specialty room. Attendees will learn how to locate an electronic systems contractor (ESC) and what questions to ask when partnering with an ESC.

EDG-LNL109-C
Home Theater Design and Construction
CEUs: 1LU HSW
Fees: FREE

What is a home theater? This may sound like a simple question, but is it? Participants in this course will come away with a very distinct definition of what a home theater is—and what it isn't! Discussions will also include basic acoustical physics, common mistakes in design and construction, "points to remember" to achieve a solid, repeatable process, and spatial and usage considerations. This course will provide guidance related to what goes in the room—from equipment, to wall treatments, to lights—and how to analyze common problems associated with home theater design and construction. Additionally, attendees will learn how, when, and why to engage a trained electronic systems contractor (ESC) early in the design and build process.

EDG-LNL110-C
Home Audio Made Easy: Residential Speaker Solutions
CEUs: 1LU HSW
Fees: FREE

There are many residential speaker solutions available for your client; how do you know which one is best? This course will help participants sort through speaker choices and placement considerations so that they will be better prepared to assist clients with finding the best options! Attendees will learn how speakers produce sound, what factors most influence sound quality, how to position speakers for optimum performance, and the best methods for integrating speakers into décor. This course will help attendees identify the proper electronics professional for the job and how to engage that professional early in the process.

EDG-LNL111-C
Understanding the Need for Home Technology
CEUs: 1LU HSW
Fees: FREE

Participants will walk away from this course with a comprehensive overview of current home technologies available in today's connected homes. The in-depth discussion will focus on wired vs. wireless, integrated systems—what they are and how they work—and engaging a trained, certified professional electronic systems contractor (ESC). This overview will also help attendees plan for proper wiring infrastructure and other profitable electronic systems that today's savvy clients are looking for, dispel common misperceptions regarding home technology, and assist them in navigating the technologies market by providing a list of "do's and don'ts".

EDG-LNL112-C
Planning for Residential Electronic Systems
CEUs: 1LU HSW
Fees: FREE

As with other rough-in trades (mechanical, electrical, and plumbing), electronic systems should be planned for well in advance of construction and documented at the construction drawing phase of design. Participants in this course will discuss the roles, responsibilities, and functions of an electronic systems contractor (ESC), be able to identify different types of residential systems, and analyze the benefits of working with an ESC. Attendees will examine specific design considerations, such as space, framing, electrical, and ventilation requirements. This course will help attendees identify the proper ESC for the job by providing them a checklist of questions to ask and items to consider when engaging a home electronics partner early in their next design and build project.

Managing Electronic Systems Contractors

CEUs: 1LU
Fees: FREE

What is an electronic systems contractor (ESC) and how do you fit him/ her into your design and build project? These questions (and more!) will be answered during this course! Discover what an ESC will bring to your next project, from "insider" tips to successfully negotiating a contract with this vital subcontractor, to questions to ask during the interview process when locating your trained, professional electronics partner. Participants can expect insightful discussion regarding locating, hiring, and collaborating with the ESC best suited to your project.

Home Technology within the Design and Build Process

CEUs: 1LU HSW
Fees: FREE

What is an electronic systems contractor (ESC)? How does an ESC impact other crucial subcontractors and their work? The answers to these questions and more will be discussed as you learn how electronic systems can be seamlessly integrated into a home's design and build process with the help of a trained, electronics professional. Some of the areas addressed include framing, HVAC, millwork, paint, lighting, window treatments, and security, just to name a few! This course uses multiple visual examples to showcase the quality work that an ESC brings to each and every project.

Hiding Technology

CEUs: 1LU HSW
Fees: FREE

Home electronics should integrate seamlessly into a home's design and décor. This course reviews the three-pronged approach to hiding technology—advance planning, design philosophy, and product selection—which are available for minimizing the visual impact of electronics without compromising performance. Specific challenges and recommendations related to hiding video displays, projectors, speakers, controls, cameras, and equipment racks—among others—will be addressed. This course speaks to innovative and creative ways to lessen the visual impact of electronics by making them low-profile, hidden or camouflaged, or even invisible!

Lighting Control

CEUs: 1LU HSW
Fees: FREE

Lighting control has become a standard in new home construction…people who have it love it and wonder how they ever lived without it! Participants will walk away from this course with a basic understanding of lighting control terminology and the benefits and solutions related to lighting control—presented in simple, easy to understand language. Additionally, attendees will be active participants in discussion surrounding common misconceptions and lighting control design considerations. This course will conclude with an informative checklist of questions to consider when interviewing and hiring an electronic systems contractor (ESC) for electronic systems integration in the home.

Control System Impact on Building Green

CEUs: 1LU HSW
Fees: FREE

A "green home" is more than energy efficiency; one must look at the big picture. Participants in this course will discuss their understanding of what it means to "go green". Discussion will include efficient use of resources, including electricity and water, and how electronic devices can work with these resources to contribute to reducing a home's carbon footprint. Additionally, attendees will discuss how a green home can be a comfortable and healthy environment for its occupants and identify methods such as engaging a trained electronic systems professional, choosing the right building materials, and providing proper air quality and ventilation in order to achieve clients' "green goals".

Video Displays

CEUs: 1LU HSW
Fees: FREE

Video displays are found in virtually every area of the home today and properly installed video displays bring added entertainment, enjoyment, comfort, and safety to the home's occupants and guests. Attendees of this course will walk away with basic knowledge regarding proper display height, distance guidelines, and detailed information regarding different display types. Participants will be able to speak with clients regarding strategies for hiding displays so that technology can be integrated into the home's décor without compromising the integrity of the design space, and will recognize the essential criteria for engaging a trained electronic systems professional to achieve these goals.

EDG-LNL119-C

Introduction to Electronic Home Entertainment
CEUs: 1LU HSW
Fees: FREE

This education course highlights the current trends in digital entertainment, the different types of entertainment available, such as such as personal video recording, movies, digital audio, and gaming, and explores whole-house application options. Additionally, infrastructure choices for distributed home entertainment will be discussed, along with available software applications, such as wired vs. wireless systems, network options, and user control options available to clients. Attendees will also participate in discussion related to identifying the most qualified electronic systems professionals and how and when to engage these individuals in the design and build process.

EDG-LNL120-C

Introduction to User Interfaces
CEUs: 1LU HSW
Fees: FREE

What is a user interface and what type will fit your clients' needs the best? Participants will find answers to these questions and more while participating in this introductory course. Attendees will discuss remotes, keypads, and touchscreens and the pros and cons of each, as well as what characteristics make user interfaces effective and easy to use. Additionally, such topics as subsystem control, home automation, and systems integration will be touched on. The all-important client interview will be discussed and participants will be schooled on recognizing the essential criteria for engaging a trained electronic systems professional.

EDG-LNL121-C

Integrating Audio for Performance and Aesthetics
CEUs: 1LU HSW
Fees: FREE

Whole house audio is a trend that has been increasing in popularity during recent years. Participants of this course will discuss how whole house audio systems can and are used, and the benefits these systems provide to the homeowner—including the advantages of integrating them with other electronic systems in the home. Additionally, attendees will walk away with an in-depth knowledge of what technologies are utilized and the components required for proper installation and performance of these complex systems without compromising the home's aesthetic beauty and design. Participants will learn about how to engage an electronic systems professional and the benefits of including this trade early in the design and build process.

EDG-LNL122-C

Media & Game Room Design
CEUs: 1LU HSW
Fees: FREE

The demand for home entertainment spaces is growing at a rapid pace—don't be uninformed and left behind! Participants in this course will be educated on the differences between media rooms and game rooms from a usage standpoint as well as specific design characteristics relative to equipment, furnishings, power requirements, ventilation, lighting, and acoustics. Attendees will also walk away with the knowledge of how and when to engage an electronics systems professional in the design and build process.

EDG-LNL123-N

Boardroom 101
CEUs: 1LU
Fees: FREE

This program is designed to help architects and facility managers in designing and installing boardrooms and meeting rooms into new and existing structures. The seminar will highlight a variety of products for the best electronic display in a particular room. In addition, examples of optimum screen size, the beast screen for the project, inputs into the system, and overall control of the systems for easy and end-user operation will be discussed. There will be a brief discussion of the audio needs and space requirements for conduit and equipment. Planning for the future will also be presented. Objectives: learn to optimize space, set appropriate time lines for installation of electronics, describe general system control requirements.

EDG-LNL124-N

Integration of Sound, Lighting and Video into Contemporary Worship Facilities
CEUs: 1LU HSW   Fees: FREE

Attendees will learn the critical issues involved with integrating audio, video and lighting into worship spaces. Objectives: learn to recognize worship technology applications, understand the purpose of technology, determine how worship styles affect technology, evaluate technology systems, and integrate technology applications into the design process.

Safe and Effective Use of Electronic Surveillance in Schools

CEUs: 1LU
Fees: FREE

This session will look at the different types of equipment being utilized in schools, and highlight the design considerations that must be made when installing and integrating these systems in buildings. Objectives: learn to explain how and why electronic surveillance systems should be integrated into the design process, describe the different types of electronic surveillance equipment available to schools, and communicate surveillance needs of end-users to technology consultants and others involved in the design of a school security project.

Specifying Technology Using '04 CSI MasterFormat/Impact on the ITS Industry

CEUs: 1LU   Fees: FREE

This session will deliver unique perspectives on how the new divisions - 25 for building automation, 27 for communications, and 29 for security/life safety - will effectively streamline technology in the building process. It includes a review of the CSI Master Format '95 and '04 versions and the impact of the new '04 version on the operation and composition fo the design team. Also included will be a detailed discussion of an actual project spec issue using the '04 format.

Contact EDG to schedule your free Lunch & Learn

Founded by Bob Gullo in 1987, EDG is a pioneer in the custom residential electronics industry. Considered by its peers and industry magazines as one of the top residential system integrators in the country, EDG continues to innovate with spectacular systems that use the latest software and control system technology to bring its clients simple and easy-to-use solutions. Providing expertise in all aspects of residential environments, EDG is known for: audio/video systems, acoustics, media room design, lighting, HVAC, telecommunications, and motorized control of shades, lifts and other devices. EDG is a one-stop solutions provider in the hi-end residential marketplace.

Electronics Design Group, Inc.

EDGonline.com   732.650.9800
60 Ethel Rd West, Ste 5
Piscataway, NJ 08854

Est. 1987   www.EDGonline.com