

Crestron Masters 2026 Course Catalog

NOVEMBER 10 – 12 • SAN ANTONIO, TEXAS

 CRESTRON

MASTERS



What is the Crestron Masters Training Event?

Crestron Masters is an in-person continuing education and networking event for certified professionals seeking advanced, applied learning. The curriculum supports every stage of the Crestron journey by blending advanced technical training, real-world application, and community engagement—empowering programmers and designers to stay current, competitive, and confident in complex deployments.

Since its launch in 2002, Crestron Masters has evolved from a small group of programmers at Crestron headquarters into one of the most prestigious continuing education events in the AV industry. Today, it is a globally recognized annual event, bringing together professionals from around the world who are committed to advancing their skills, expanding their networks, and shaping the future of technology enabled environments.

Crestron Masters Education Paths

CRESTRON MASTERS CERTIFIED PROGRAMMER (CMCP)

The CMCP path delivers hands-on training for Crestron Certified Programmers, focused on latest software best practices and programming methodologies. CMCP participants have access to all programming and design courses offered at Crestron Masters.

CRESTRON MASTERS TECHNOLOGY ARCHITECT (CMTA)

The CMTA path equips certified designers with a deep knowledge of Crestron solutions and design strategies to create scalable, high-impact systems using the latest technologies. CMTA courses span modern collaboration, AV over IP, intelligent video, and networking, with optional focus areas in security, education, and residential design.

Modern Work at Crestron Masters

CRESTRON MODERN WORKPLACE CERTIFICATION

Modern Work at Crestron Masters expands the Crestron Masters experience by offering a two-day, in-person training program designed as an introduction to Crestron education and the Crestron Masters community. Modern Work provides practical guidance on workplace design, collaboration technologies, and real-world deployment strategies, making it ideal for professionals who are new to Crestron training or looking to build foundational proficiency. No prior Crestron Masters certification is required, and attendees earn the Crestron Modern Workplace Certification upon completion.

Network with industry peers and Crestron experts

Engage with industry partners at the Partner Expo and experience how their technologies integrate seamlessly with the Crestron ecosystem to power complete solutions.

Peer-to-peer collaboration is what makes Crestron Masters a premier networking experience. Beyond education, the event brings together programmers, designers, engineers, consultants, and Crestron experts in a highly collaborative environment where ideas are shared, relationships are built, and careers are elevated. Through expert-led sessions, shared keynote experiences, and partner engagement, Crestron Masters fosters a global community united by a passion for learning and innovation.

Crestron Masters is more than an event — it's where the Crestron community comes together to learn, connect, and lead the future of technology.

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LEARN MORE ABOUT
CRESTRON MASTERS

General Sessions

Six sessions – Included for all attendees, unless otherwise noted.

Welcome Keynote

- 🕒 90 Minutes
- 📍 Presentation

As we stand on the brink of a technological revolution, the integration of artificial intelligence into smart spaces is transforming the way we live, work, and interact with our environments. At Crestron Masters 2026, we delve into the cutting-edge advancements in AI and their profound impact on the future of smart spaces.

This keynote will explore the latest innovations in AI-driven automation, highlighting how Crestron's pioneering solutions are setting new standards in intelligent building management. Attendees will gain insights into the seamless integration of Visual AI with Crestron's robust Automate VX platform, enabling speaker tracking and framing.

Closing Session

- 🕒 90 Minutes
- 📍 Presentation

In this live and exclusive Crestron Masters presentation, expect to hear and see news about the coming year at Crestron. We will conclude the event with recognition of this year's Crestron Masters training conference and introduce our newly leveled-up Crestron Masters Certified Programmers and Crestron Masters Certified Technology Architects.

Crestron True Blue Party

- 🕒 2 Hours
- 📍 Special Event

Get ready to celebrate the Crestron True Blue Community. Once a term for our technical support team, "True Blue," has evolved to represent a greater collective of dedicated Crestron integrators, problem solvers, specifiers, and programmers. The evening will celebrate our growing community and the successes that are possible through networking, live music, gourmet offerings, spirits, and good will.

GENERAL SESSIONS

Annual Masters Hackathon

🕒 2 Hours

📍 Special Event

You won't believe the challenge in front of the Crestron Masters Community that takes this year's event into unheard of depths. Now in its 11th year, the Crestron Masters Hackathon has evolved from a simple programming challenge, through a plethora of colored hats, to this year's incredible concept. Don't miss out – sign up your team!

Crestron Construct GUI Gallery

Crestron Construct™ UI editing tool is a powerful tool for creating innovative and attractive user interfaces representing the best experience for your customer. In this expo gallery we will feature some of the best UI submissions from our Crestron Masters programming community, all authored using the Crestron Construct tool. You will be able to explore each solution presented on a touch screen and within the software itself in this unique and interactive showcase.

Crestron Masters Technical Showcase

Optional, but recommended for Modern Work attendees. Please note, an additional fee applies.

Hear directly from leading technology partners and explore how their solutions integrate with Crestron to enhance collaboration and elevate the modern workplace experience.

The course descriptions for the partner tech sessions will be published at a later date.



Programming Courses (CMCP)

Ten courses – Electives for all programmers

P500

Tools for the Modern Crestron Developer

- 🕒 90 minutes
- 🔑 Level 5
- 👁 Presentation

Join us for a look at how the Crestron development platform is evolving — and what that means for you. This session introduces the latest concepts shaping the modern Crestron developer toolkit, from cloud-connected workflows to APIs to full-stack development and the expanding role of AI in how solutions are designed, built, delivered, and maintained. Drawing on expert perspectives and community discussion, we'll connect the dots across the platform and set the context for the deep-dive sessions that follow.

P501

Crestron Construct: Programming SIMPL & SIMPL+

- 🕒 3 hours
- 🔑 Level 5
- 💻 Programming Lab

In this interactive programming lab, learn how building projects in Crestron's SIMPL and SIMPL+® programming language is both simplified and streamlined using the Crestron Construct Integrated Development Environment (IDE). We will also explore some of the best practices and advanced techniques for solutions available within these languages.

P502

Getting Started: Exploring Object-Oriented Programming using C# for Crestron

- 🕒 3 hours
- 🔑 Level 5
- 💻 Programming Lab

Ready to take your programming skills to the next level? We will explore not only the fundamentals of object-oriented programming, but also show how an asynchronous approach can streamline your code. Whether you are familiar with C# or not, this practical lab will get you moving with some great new additions to your programming toolbox.

PROGRAMMING COURSES (CMCP)

P603

Programming with XiO Cloud – API & Program Connector

- 🕒 90 minutes
- 🔑 Level 6
- 🖥️ Programming Lab

This class dives deep into the practical techniques and architectural patterns required to build robust, scalable solutions that integrate directly with XiO Cloud® technology operations management platform. This class is designed for programmers who want to unlock the full potential of the platform — whether by automating workflows through the XiO Cloud REST API or by leveraging the newly expanded Program Connector capabilities.

Attendees will learn how to authenticate, query, and manage XiO Cloud resources programmatically; how to design device side logic that exchanges data with XiO Cloud platform in real time; and how to apply these tools to automate deployments, enhance monitoring, and extend system intelligence. Through hands-on exercises and real-world examples, programmers will gain the skills needed to build cloud-connected Crestron solutions that are secure, efficient, and future-ready.

P604

Crestron Construct UI: Best Practices

- 🕒 3 hours
- 🔑 Level 6
- 🖥️ Programming Lab

If you want to make the best and most efficient use of your touch screens, this is the course for you. Explore Crestron Construct™ UI editing tool with our experts and take a deep dive into the methods which can migrate your great interfaces into exceptional ones. Learn how lean and efficient coding using the more advanced tools available in Crestron Construct can optimize your user experience.

P605

Intermediate C#: Interfacing Crestron DM NAX with Crestron Construct Projects

- 🕒 3 hours
- 🔑 Level 6
- 🖥️ Programming Lab

This course introduces programming Crestron DM NAX® audio technology systems in C# using the Crestron Construct™ software user interface. Students will learn how to integrate DM NAX devices into a control system by building reliable, scalable solutions that connect Crestron Construct based interfaces with backend C# logic. The course covers routing and control of DM NAX streaming sources through the Crestron Construct UI, demonstrating how to use C# effectively to manage device communication and system behavior.

Through practical examples, students will explore recommended project structure, signal flow, device control, and best practices for developing and maintaining modern Crestron DM NAX deployments.

Prerequisite: Programming using C# for Crestron

PROGRAMMING COURSES (CMCP)

P606

Building Extensions - Powerful Drivers for Crestron Home OS and Future Platforms

🕒 3 hours

🔒 Level 6

🖥️ Programming Lab

When you need to integrate a specialized or lesser-known device — especially one controlled over Ethernet — and no Crestron driver exists, this course shows you how to build your own. Learn how to program custom Crestron drivers, bring them into Crestron Home® OS (and future platforms), and design a tailored UI that matches your customer's unique style. Gain the skills to support virtually any device your project requires.

Prerequisite: Programming using C# for Crestron

P607

Python + Crestron DM NAX APIs: From Automation to AI Control

🕒 3 hours

🔒 Level 6

🖥️ Programming Lab

This is a practical, hands-on course that teaches you how to build production-ready applications in Python® programming language for controlling Crestron DM NAX® audio technology devices and enhance them with AI-driven, natural language interfaces. You'll start by working directly with DM NAX APIs to handle authentication, discovery, state management, and real-world automation scenarios such as input switching, volume control, and room configuration, using reliable patterns with proper error handling. The course then shows how to wrap your application with an MCP server to enable voice and text control through AI/LLMs, translating human language into device actions. All solutions are designed for fully on-premises deployment, making the course ideal for secure enterprise and AV environments.

Prerequisite: Familiarity with scripting using Python programming language

P608

Third-Party Integration using C#

🕒 3 hours

🔒 Level 6

🖥️ Programming Lab

Integration with third-party devices and services is an essential part of modern AV projects. Learn how to leverage both Crestron and third-party APIs to add a new dimension to your projects. In this 3-hour session we will cover the use of the Microsoft® Graph API to add system information to Microsoft 365® software so that clients can use services to drive reporting and add automation to room systems.

This course will discuss the methods and concepts used to create clean code and find a balance between high-quality work, the time required, and the cost. We will then cover debugging tools and techniques for C# code.

PROGRAMMING COURSES (CMCP)

P709

Building Intelligent Crestron Applications: Full Stack Development with .NET 10, HTML5, & JavaScript

- 🕒 1 day
- 📌 Level 7
- 🖥️ Programming Lab

Fasten your seatbelt and join us for an unparalleled learning experience in Crestron full-stack development with Toine and Yuri, two renowned experts in advanced C# programming. We're also excited to introduce Gustavo, a veteran HTML5 and JavaScript engineer at Crestron.

During this full-day immersive class, you'll work with .NET 10, HTML5, and modern JavaScript libraries to build a configuration-driven application featuring a dynamic, responsive UI and a standards-based communication protocol. We'll push the boundaries even further by weaving AI and machine learning directly into the solution.

This course is designed for advanced developers with strong proficiency in C#, HTML, and JavaScript, and a solid understanding of core programming concepts.



Design Courses (CMTA)

Nine courses – Electives for all designers; optional for programmers

D400

New Technology Roundup

- 🕒 90 minutes
- 🔒 Level 4
- 👁 Presentation

So much has happened since Crestron Masters 2025! We've welcomed new solutions and evolved workflows. In this session you'll get caught up and learn how Crestron's vision to elevate design flexibility is realized through maximized interoperability.

D401

Designing Modern Collaboration Spaces with Crestron Collab Compute

- 🕒 90 minutes
- 🔒 Level 4
- 👁 Presentation

Learn how to specify and design modern collaboration environments built around Crestron's Microsoft® Windows® OS based Collab Compute platform. This course provides practical guidance on integrating control, audio, video, and room automation to deliver seamless unified communication experiences. Participants will gain a deeper understanding of how the Crestron ecosystem works together to enable scalable, high-performance meeting spaces.

D402

Audio Processing made Easy with DM NAX Audio Technology

- 🕒 90 minutes
- 🔒 Level 4
- 👁 Presentation

Could it really be this easy? Reduce the time to implement audio to mere minutes for the most robust of integrated conferencing solutions. Learn how DM NAX audio processing and distribution is revolutionizing the way audio solutions are designed and deployed.

D403

Multi-Camera Intelligent Switching Applications

- 🕒 90 minutes
- 🔒 Level 4
- 👁 Presentation

One camera not enough? Automate VX too much? In this session you'll learn about many applications for Crestron's revolutionary visual cue-based, logic-based, and audio location-based camera switching solutions that are perfect for middle-ground spaces.

DESIGN COURSES (CMTA)

D404

AV Infrastructure Deployment & Management

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

Crestron XiO Cloud® technology operations management platform takes its biggest leap forward yet. You'll learn how today's XiO Cloud platform makes managing the full lifecycle of your AV infrastructure easier and more proactive than ever before.

D405

DM NVX: The Evolution Continues

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

Crestron has doubled down on design flexibility by enhancing existing gear and introducing what's next. We've brought DM NVX® AV-over-IP Multiview, H.264, eARC, and modern USB/audio routing to our current lineup, all while launching a new generation of products. This session explores these new applications — building on your existing expertise to help you master more project scopes than ever before.

D406

The Next Big Thing in Content, Collaboration, & Control

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

Be among the first to experience the revolution in complete room solutions. In this session, you will learn about new products that offer complete design flexibility to solve many design challenges from the boardroom to the classroom. The multi-tool you have been waiting for is here.

D407

Enterprise-Scale Network Design

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

Connecting a NETGEAR® switch to the Crestron Control Subnet is possibly the easiest way to set up an enterprise-grade AV network on the planet. In this session, we're going bigger. When, why, and how to design sophisticated multi-switch networks at scale that incorporate advanced concepts, including security and remote access, in an approachable way.

DESIGN COURSES (CMTA)

D408

Unique Applications using Automate VX

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

In this 'art of the possible' session, you'll learn about designing for scenarios beyond the typical. Topics include expanded systems beyond 12 cameras, innovative courtroom applications, joystick controllers for hybrid use cases, divisible spaces, and more.

Focus Group Design Courses (CMTA)

Two courses – Optional for designers

D409

Designing for Secure Sites (Government & Enterprise)

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

In 2026, secure system design is a mandatory requirement across mission-critical environments. This course focuses on developing hardened AV solutions for high-security applications, including government installations, defense facilities, and enterprise-class collaboration spaces. Students will learn how to integrate technologies that meet both functional scope and modern security expectations, such as DM NVX® AV-over-IP Multiview processing, secure unified communications, encrypted control and audio/video transport, and tamper-resistant hardware. The curriculum emphasizes alignment with current cybersecurity guidelines for audiovisual, IT, and collaboration ecosystems.

D410

The Modern Crestron Learning Space (Higher Education)

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

Learn from Crestron subject matter experts and explore post-pandemic trends of how top higher education institutions are embracing new technologies in support of modern pedagogy.

DESIGN COURSES (CMTA)

Residential Special Design Courses (CMTA)

Six courses – Optional for designers with a residential focus.

D451

Advanced Shade Design

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

Not all windows are straightforward. This session will show you how to confidently tackle the most challenging shading scenarios using proven Crestron solutions. Learn advanced techniques for specifying shades across curved, oversized, angled, corner, and irregular windows – balancing performance, light control, and aesthetic integration through real-world design and installation strategies.

D452

Seamless Multi-Protocol Lighting Controls in Crestron Home OS

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

Today's homes demand flexibility, and Crestron Home® OS delivers. In this session you'll learn how to design lighting systems that seamlessly blend protocols such as DALI®, 0-10V, DMX, and PhaseX® lighting control technology to reduce complexity, and deliver intuitive, elegant experiences across the home.

D453

Advanced Troubleshooting for Residential Systems

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

When problems arise onsite, knowing where to start is everything. Learn proven troubleshooting methods used by Crestron's expert support engineers to isolate issues faster, avoid common pitfalls, and build long-term system stability.

D454

Design Considerations for Very Large Crestron Home Systems

- 🕒 90 minutes
- 📌 Level 4
- 👁 Presentation

Some homes operate at the scale of small campuses, where Crestron excels! This session shows you how to design large systems that remain reliable, responsive, and maintainable, even as complexity grows.

DESIGN COURSES (CMTA)

D455

Mastering Configure Pro for Crestron Home

- 🕒 90 minutes
- 🔑 Level 4
- 👁️ Presentation

Go from design to a working Crestron Home platform system faster than ever. This session teaches you how to get the most out of Configure Pro software so you can build consistent, scalable, high-quality systems in less time than ever.

D456

Residential Workflows to Maximize Efficiency

- 🕒 90 minutes
- 🔑 Level 4
- 👁️ Presentation

From the first client conversation to the final sign off, great workflow drives profitable projects. Learn processes and tools that streamline every stage, reduce rework, and help your team deliver consistent excellence.

Intelligent Video Certified Engineer

One course – Optional for designers with IVC-E certification

V301

Automate VX & Camera Certification Update

- 🕒 3 hours
- 🔑 Level 3
- ⚙️ Lab

In this exclusive lab course available only to Crestron IVC-E Certified Engineers, we will familiarize and level up participants with the most current Automate VX products and features, certification, and the new face-oriented switching feature that maximizes the best camera angles. Completion of this course grants or extends the Crestron Masters Intelligent Video Engineer (CM-IVC-E) Certification. **Seating is limited.**



Modern Work Certification at Crestron Masters



Six courses – Fixed path

M201

Network Infrastructure & Deployments

- 🕒 90 minutes
- 🔒 Level 2
- 👁️ Presentation

At the core of every modern workplace is a network built to scale. This session shows how NETGEAR AV networking combined with Crestron XiO Cloud® technology operations management platform delivers a secure, manageable, and future-ready foundation for deploying and managing technology across the enterprise.

M202

DM NVX Distribution & Routing Essentials

- 🕒 90 minutes
- 🔒 Level 2
- 👁️ Presentation

Crestron DM NVX® AV-over-IP technology enables scalable, network-based distribution across modern work environments. Attendees will see how continued DM NVX enhancements unlock greater flexibility and future-ready routing as deployments expand.

M203

Intelligent DM NAX & Sennheiser Solutions

- 🕒 90 minutes
- 🔒 Level 2
- 👁️ Presentation

This session explores the DM NAX® Intelligent Audio solution and our partnership with Sennheiser as a network-based approach to delivering clear, consistent audio across modern workspaces. You'll see how PoE-powered audio solutions simplify deployment while scaling seamlessly alongside video and collaboration systems.

M204

AirMedia Presentation Technologies

- 🕒 90 minutes
- 🔒 Level 2
- 👁️ Presentation

This session focuses on enabling seamless BYOD presentation and content sharing in modern meeting spaces. Learn how AirMedia® technology continues to evolve, simplifying user experiences while integrating cleanly into larger Crestron, UC, and AV-over-IP ecosystems.

MODERN WORK CERTIFICATION AT CRESTRON MASTERS

M205

Intelligent Video & Crestron 1 Beyond Cameras

- 🕒 90 minutes
- 📍 Level 2
- 👁️ Presentation

This session explores intelligent video solutions designed to elevate meeting equity and user experiences in modern workplaces. Attendees will learn how Crestron 1 Beyond cameras and intelligent switching scale from simple rooms to advanced spaces while integrating seamlessly with collaboration platforms.

M206

Collaboration Solutions & Integrations

- 🕒 90 minutes
- 📍 Level 2
- 👁️ Presentation

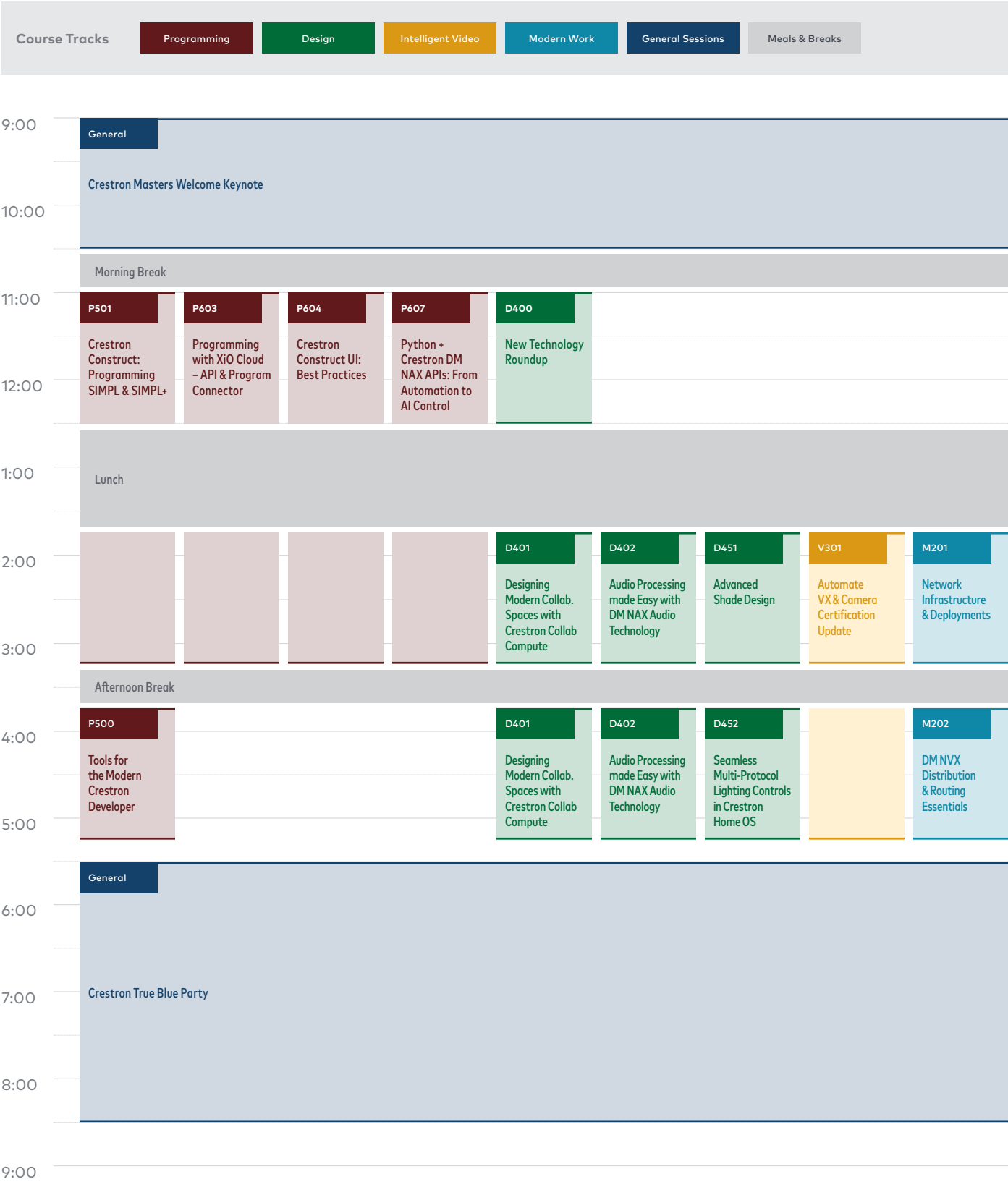
This session will tie the modern workplace together by focusing on how AV, video, audio, and control integrate with the Crestron Collab Compute and leading UC platforms. This session shows how thoughtfully designed collaboration solutions scale across room types while remaining simple to deploy, manage, and support.



Schedule at a Glance

Tuesday, November 10

Pick one session per time slot



Schedule at a Glance

Wednesday, November 11

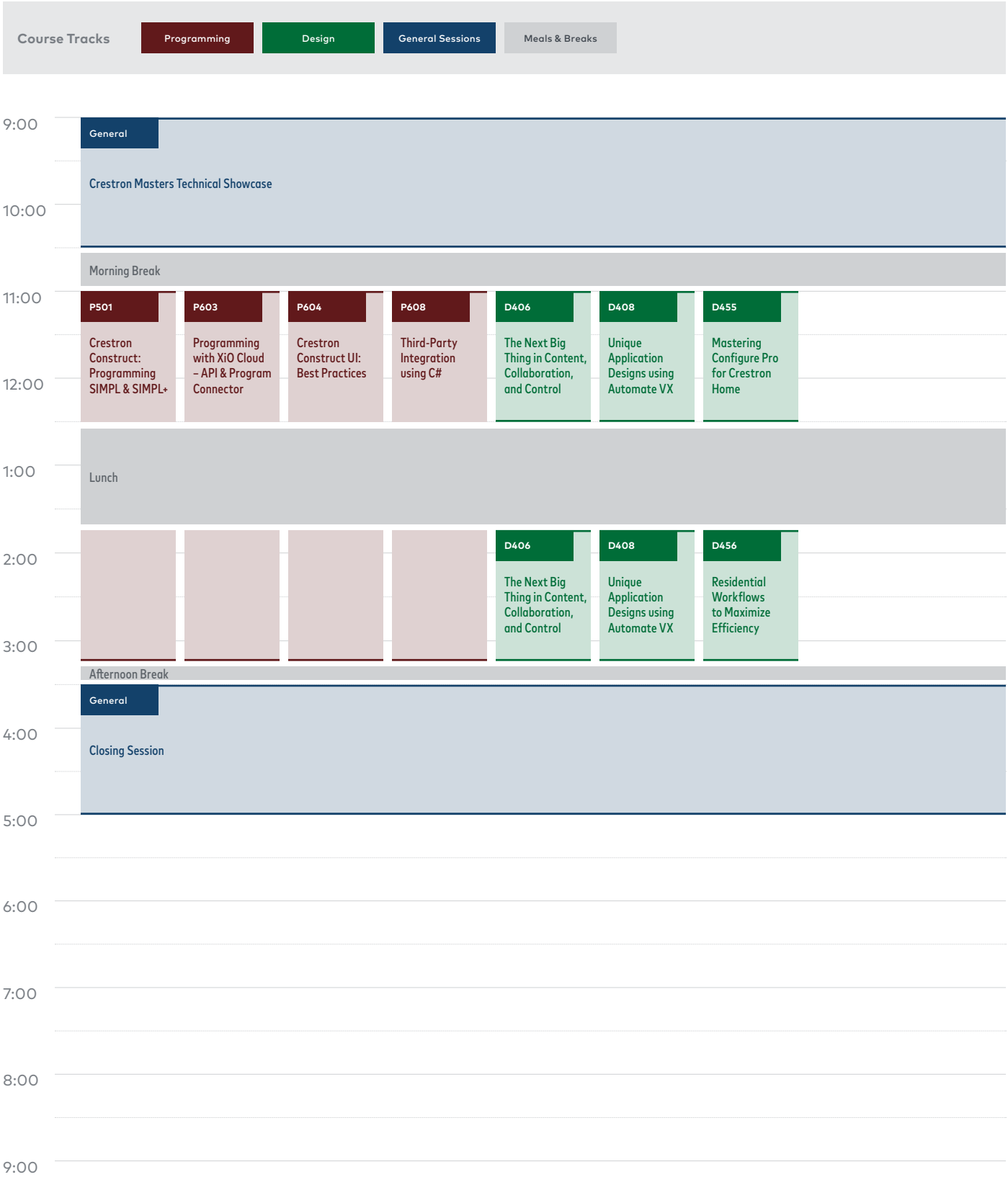
Pick one session per time slot

Course Tracks										
Programming		Design		Intelligent Video		Modern Work		General Sessions		Meals & Breaks
9:00	P709	P501	P502	P605	P606	D403	D404	D453	V301	M203
	Building Intelligent Crestron Applications: Full Stack...	Crestron Construct: Programming SIMPL & SIMPL+	Getting Started: Object-Oriented Prog. using C#...	Intermediate C#: Interfacing DM NAX with Crestron Construct...	Building Extensions: Drivers for Crestron Home OS...	Multi-Camera Intelligent Switching Applications	AV Infrastructure Deployment & Management	Advanced Troubleshooting for Residential Systems	Automate VX & Camera Certification Update	Intelligent DM NAX & Sennheiser Solutions
10:00										
	Morning Break									
11:00						D403	D404	D454		M204
						Multi-Camera Intelligent Switching Applications	AV Infrastructure Deployment & Management	Design Considerations for Very Large Crestron Home Systems		AirMedia Presentation Technologies
12:00										
1:00	Lunch									
2:00		P501	P502	P605	P606	D405	D407	D409	V301	M205
		Crestron Construct: Programming SIMPL & SIMPL+	Getting Started: Object-Oriented Prog. using C#...	Intermediate C#: Interfacing DM NAX with Crestron Construct...	Building Extensions: Drivers for Crestron Home OS...	DM NVX: The Evolution Continues	Enterprise-Scale Network Design	Designing for Secure Sites (Government & Enterprise)	Automate VX & Camera Certification Update	Intelligent Video & Crestron 1 Beyond
3:00										
	Afternoon Break									
4:00						D405	D407	D410		M206
						DM NVX: The Evolution Continues	Enterprise-Scale Network Design	The Modern Crestron Learning Space (Higher Education)		Collab Solutions & Integrations
5:00										
6:00	General Crestron Masters Dinner									
7:00	General									
8:00	Crestron Masters Hackathon									
9:00										

Schedule at a Glance

Thursday, November 12

Pick one session per time slot





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