Design Fusion Certificate Program for CMU Faculty and Staff



This is the century for design.

We believe that no other discipline is as equipped to address current problems, forecast new futures, and shift conventional thinking. With sights on a new horizon for transdisciplinary innovation set against the backdrop of entangled social, cultural, technological and ecological contexts, we are forging Design Fusion as a new mode of practice.



The Joseph Ballay Center for Design Fusion serves as a unique design-led platform at Carnegie Mellon University that unites the arts, humanities, sciences, and business to foster transdisciplinary innovation. We partner with internal and external organizations to develop forward-thinking projects, cultivate creative solutions to complex challenges, and bring faculty, staff, students and partners together in collaborative, real-world settings. Through these partnerships, we aim to expand the boundaries of design and its impact on society.

Design Fusion converges disciplines, provides a universal skillset, and empowers strategic innovation.

The Office of Human Resources, in partnership with the Joseph Ballay Center for Design Fusion within the School of Design, is thrilled to offer a groundbreaking professional development opportunity to faculty and staff across the university.

The Design Fusion Certificate Program parallels the center's Professional Education Program provided to external organizations and aims to cultivate a more creative and imaginative culture across CMU by unlocking the latent creative potential of our faculty, staff and administration. The program has been instrumental in fostering integrative thinking, sparking innovation, enhancing collaboration and achieving new levels of creative agency to frame big ideas. Now, you can harness these powerful tools to elevate your work and drive innovation within our campus community.

For many years, faculty from the School of Design have provided customized workshops both on and off campus. A few years ago, our faculty delivered a multi-day Design Thinking workshop to 300+ Tepper School of Business MBA students, our largest singly delivery to date.

Since 2016, we have provided customized workshops and courses for Highmark, United States Air Force Academy, Software Engineering Institute, Heinz College, and many other organizations. We are driven by our commitment to excellence in education, our passion for fostering innovation, and our dedication to empowering individuals and organizations to achieve their full creative potential.

Join us to experience transformative learning that makes a lasting impact.

Joseph Ballay Center Fusion

Join our professional education programs to be part of a transformative journey.

Learn from top designers to achieve new creative agency.

Develop the ability to see beyond and around any problem space to forecast new opportunities.

Innovate beyond boundaries with contemporary and integrative design methods.

Initiate progress within your organization in more inventive and collaborative ways.



Software Engineering Institute

Our Design Fusion Certificate Program aims to level up your impact at CMU and beyond.

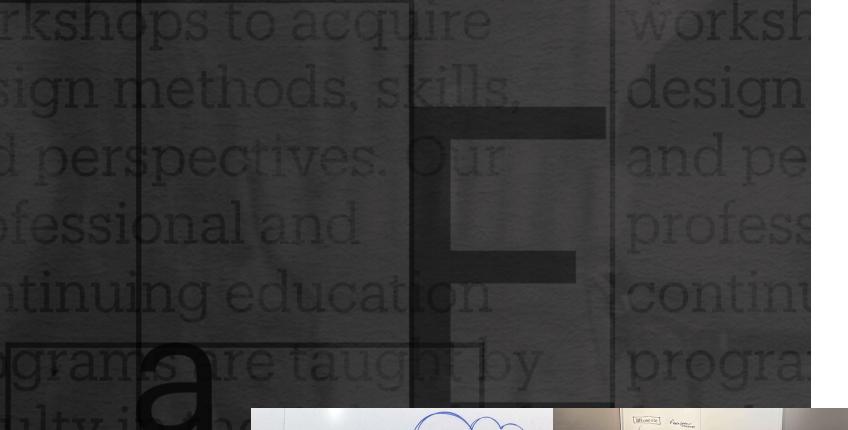
Participants are selected through nomination by college and division leadership. Nominations typically occur a few months before a scheduled session. Nominations will occur in September and October for the December program and Febraury and March for the May program. Leaders should identify motivated team members in various roles to foster a culture of creativity and innovation that promotes both personal and organizational growth

Nominees should meet the following criteria:

- · Ability and willingness to attend training and presentations in person as outlined in the program schedule
- Employees at all levels, both supervisors and individual contributors, are welcome to participate
- · Responsibilities of current role could benefit from an increased ability to apply agile and creative thinking to existing processes and systems
- Current performance reflects an ability to work effectively with others
- · Consistently meets or exceeds expectations for performance at CMU
- Supervisory approval for release time to participate in the program and payment of tuition (\$2,250/participant)

Programs for (AY) 2024-25:

Participants should expect to attend in person and devote a total of 25 hours to the weeklong program with 21 hours of class time and four additional hours of independent work. Graduates will earn a non-degree certificate from the School of Design upon successful completion. The program ends with participant presentations the Friday following the completion of the course work.







Joseph Ballav Center for Fusion

Fall '24 Program (pilot)

Dec 2 / Monday / 5:00pm-6:50pm Visual Thinking

Dec 3 / Tuesday / 5:00pm-6:50pm **Design Methods in Action**

Dec 4 / Wednesday / 5:00pm-6:50pm **Strategic Service Design**

Dec 5 / Thursday / 5:00pm-6:50pm **Service Design Jam**

Dec 6 / Friday / 9:00am - 3:00pm **Design Fusion in Practice**

Dec 13 / Friday / 9:00am - 12:00pm **Presentations**

Spring '25 Program

May 12 / Monday / 4:00pm-7:00pm Visual Thinking

May 13 / Tuesday / 4:00pm-7:00pm **Design Methods in Action**

May 14 / Wednesday / 4:00pm-7:00pm Strategic Service Design

May 15 / Thursday / 4:00pm-7:00pm **Visual Presentation Design**

May 16 / Friday / 9:00am - 3:00pm **Design Fusion in Practice**

May 23 / Friday / 9:00am - 12:00pm **Presentations**



Visual Thinking

These modules are immersive hands-on sessions that combine presentation with individual and team-based activities designed to unlock your potential for creative brainstorming through better drawing skills, visual notation, diagramming and storyboarding.



Design Methods in Action Participants work in teams, modeling the non-hierarchical collaboration required for design to succeed. This learn-bydoing approach involves tackling a real design challenge, while also reflecting on how the process can be applied to any problem or situation and goes beyond step-by-step instruction to allow participants to experience the generative power of design.



used to analyze and understand services, their relationships, their value exchanges, and how what happens behind the scenes impacts customerfacing interactions. Additionally, user research and prototyping methods are demonstrated to develop service experiences for both those delivering services and those receiving them.



Dynamic Visual Presentation Understand your content, know your audience and find your message to craft dynamic and effective approaches for visual presentation.



Exploratory Design Research Investigate and understand a problem space, user needs, and opportunities for innovation through open-ended exploration to gather qualitative insights and generate ideas that will inform and enrich your design process.



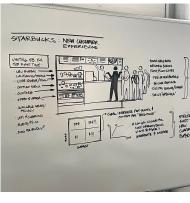
Concepting the Future Envision, plan, and prepare for what lies ahead by combining elements of foresight, strategic thinking, and design to vision potential future scenarios through a balance of analytical rigor and creative thinking.

Our Certificate Program is convenient, collaborative and creative.

Stay ahead of the innovation curve. The Ballay Center delivers design thinking, methods, and skills to build new design skills and capabilities.

Our modular programming is delivered by world-class faculty from Carnegie Mellon University and highly-accomplished practitioners whose work sits at the leading edge of their industries. Listed here are select popular modules delivered through highly active participatory sessions.

Current programming for AY 2024-2025 is detailed on page 3.





Whiteboard Heroics

Put your design skills to work in this facilitated design sprint that compresses structured process of mapping, the research, generative and evaluative approaches of design into a studio experience. We work with you to develop a theme that complements the work of your group/organization to provide a fertile playground to exercise your new design skills.

Experiment with a generative and diagramming, modeling, sketching and prototyping to shape understanding of complex and dynamic social, environmental, and technological systems.

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For more information please contact us: ballaycenter@design.cmu.edu



Prototyping for Discovery Learn methods of creating physical, visual and embodied models for exploring and understanding a problem space, user needs, user journeys, and potential solutions in support of user experience (UX), product development, industrial design and more, to build insights and ideas early in the design process to set strategy.

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