

Building Information Modeling (BIM) Certificate

Our [Center for Education and Research in Construction \(CERC\)](#) and [Skanska](#) have teamed in order to develop a uniquely focused, applied Building Information Modeling (BIM) skills certificate course. Students will leave this program with tangible BIM software skills and an understanding of work processes, as well as enough industry context to decide why and how to leverage these capabilities. The blended delivery approach allows the program to be as accessible as possible for working professionals to attend, including those outside the Seattle area. This three-hour weekly course is held Tuesday evenings, with first course in Fall 2015. It is offered through the Department of Construction Management (not UW PCE) and will be hosted at the CERC Sandpoint facility as well as through web-based broadcast for those attending online.

WHY ATTEND?

The rapid adoption of Building Information Modeling (“BIM”) in the design and construction industry has led to a strong demand for construction management professionals who can leverage the many benefits of BIM on their projects. This certificate program complements a professional degree or real-world experience by helping construction managers take an active role in the BIM process. **The key differentiator of this program from other BIM education programs available today is the focus on applied BIM skills that can be readily useful in real project settings: what you learn in this program today, you can apply on the jobsite tomorrow.**

WHO SHOULD TAKE THIS COURSE?

This course is ideal for construction managers with limited to no knowledge of the BIM process or software packages. Those in related professions who would like to learn more about how construction managers make use of BIM, such as architects, civil engineers, MEP engineers, trade subcontractors, and those in related fields, would also benefit from this program. It is also a great supplement for students currently pursuing one of these degrees looking to learn practical skills that could help move into a BIM-related role.

Students who successfully complete the coursework and capstone project will receive a Professional Certificate from the UW Department of Construction Management verifying participation in this course and can add it to their curriculum vitae. They will also be granted exclusive access to an online network of UW-Skanska BIM Certificate graduates to support both networking and inform future BIM-related information and offerings.

OUR FACULTY

The UW-Skanska Certificate in Building Information Modeling is principally taught by award-winning researcher Dr. Carrie Sturts Dossick of University of Washington and seasoned BIM trainer and practitioner Mr. Mike Choquette of Skanska USA Building. Over the course of the program, they will also host a number of guest lecturers who are seasoned BIM professionals active in the field today. These experts bring current, real-life experience to the classroom environment to share best practices and lessons learned, while answering difficult questions relative to how BIM tools impact collaboration, communication, and quality in our rapidly changing industry.

COURSE AGENDA



The hands-on course spans 11 sessions and includes a Capstone project and presentation.

- Introduction to BIM
- BIM technology Fundamentals, Part 1
- Planning for success
- Coordination and Clash Prevention
- BIM for project reviews
- Scheduling with BIM
- BIM technology Fundamentals, Part 2
- Quantities and component tracking
- BIM in the Field
- Capstone workshop
- Facilities and Asset Management, and Course Conclusion

OUR TEAM

- **About Skanska USA**

Skanska USA is one of the largest, most financially sound construction and development companies in the U.S., serving a broad range of clients. Headquartered in New York with offices in 34 metro areas, we have more than 10,000 employees committed to being leaders in safety, project execution, sustainability, ethics and people development. In 2014, our work in building construction, civil and power/industrial construction, commercial development and infrastructure development (public-private partnerships) generated \$7.3 billion in revenue. The emergence of Building Information Modeling (BIM) and related technologies continues to reshape how we deliver projects. Our BIM-enabled approach threads together Skanska's deep, award-winning legacy of construction expertise with innovative technologies and processes to improve the way we work. We have applied these cutting-edge technologies to every phase of the building lifecycle, from conceptual design through facility management. We are consistently ranked in the [Top BIM Giants](#) of Building Design + Construction and frequently cited in Dodge Data & Analytics [Smart Market Reports](#). Learn more about Skanska and our approach to innovation [here](#).

- **About UW's Center for Education and Research in Education (CERC)**

CERC is a locus of research, scholarship and discovery in the UW's [Department of Construction Management](#) and allied disciplines of architecture, engineering and real estate. Focused on the people and practices of a dynamic, innovative construction industry, CERC develops new concepts and innovative solutions as well as improves methodologies for design, construction and operations. With labs focused on Safety and Health, Project Delivery and Management, Virtual Design and Construction, Infrastructure Development, and Sustainable Built Environments the CERC faculty are not only experts and researchers in a wide array of topics but also lead the field in translating that expertise into excellent construction education practices and pedagogy to train tomorrow's construction professionals.