Data Informed Design Integration:
Building Information Modeling digital workflow methods Revit and Rhino 3D Grasshopper

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Course Meeting: Tuesdays and Thursdays, 12:00-1:50pm
Course Modality: Eugene In-person with online content and site visits
Course development support by Architect Stephen Maher previously of SA+UD

Real-time integration of data analysis-informed design remains the “holy grail” for architects and landscape architects. This course will teach the use of professional building Information modeling software Revit as part of an integrated design process using Rhino Grasshopper. It will focus on: 1) Revit training, project setup and replicable template; 2) Revit Rhino workflow integration and 3) working drawing production.

Tutorial sessions in this course will explain the fundamentals of Autodesk’s Revit by Speranza Architecture + Urban Design (SA+UD). Contemporary digital workflow methods within the Architecture Engineering Construction (AEC) industry are enhanced with the effective use of Building Information Modeling (BIM). BIM methods streamline collaboration and coordination with consultants, product manufacturers, and clients including government agencies. BIM workflows offer the benefits of team drawing and modeling integration, the use of products information models, and the population of associated schedules. A 3D model allows design understanding unavailable within a solely 2D workflow.

A secondary goal is to set up design and production workflow, namely the interoperability of Rhinoceros 3D and Revit. Students will need to provide their own Rhino Software. Autodesk Revit is free to students.