

# CE 566 – 3D laser scanning and imaging

4 Units, Fall Quarter 2016, Monday Wednesday 13:00-15:50pm lecture/lab combo

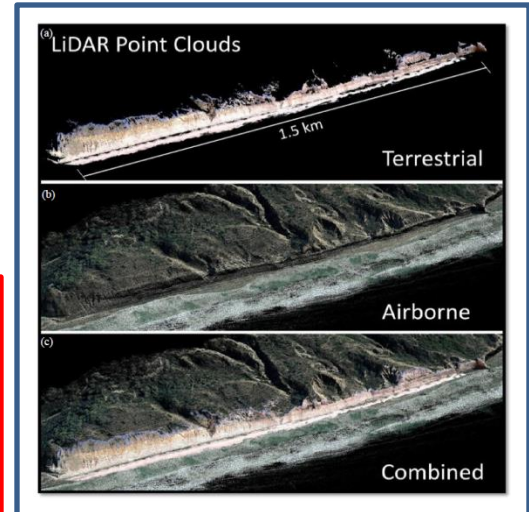
Fundamental principles of 3D laser scanning and LiDAR, including sensor types (ground-based, mobile, airborne), acquisition, processing, visualization, and analysis. Establishing control for laser scan surveys. Discussion on errors, limitations, and overall quality control of laser scan data. Generation of topographic and CAD\BIM models from 3D point clouds. Applicable to many disciplines, such as:

- Civil/Construction Eng.
- Geosciences/Geology
- Coastal Science
- GIScience
- Computer Science
- Forestry
- And many more!

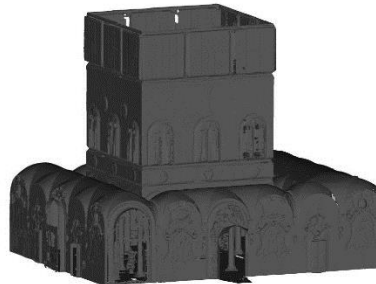
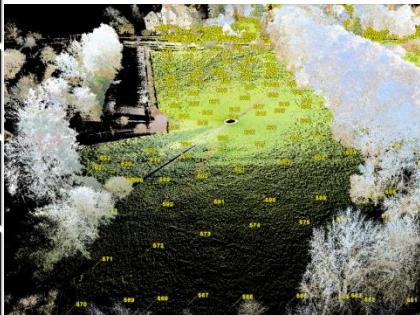
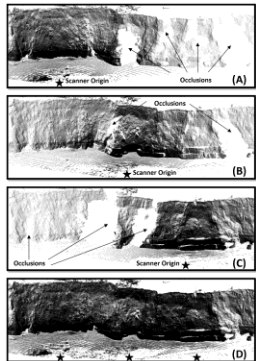
## Laser scan data acquisition



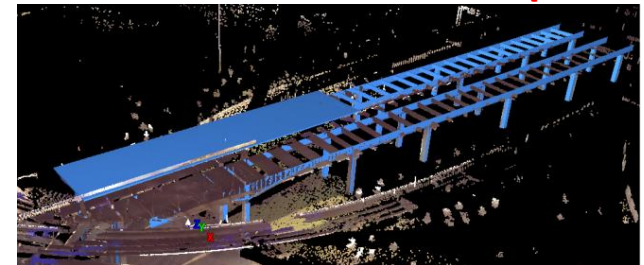
Pre-reqs: Surveying and/or GIS course or experience. Open to graduate students and seniors. Open to all majors. Counts as a GIScience Elective!



## Processing and modeling



## Scan to CAD\BIM



Questions? Please contact [michael.olsen@oregonstate.edu](mailto:michael.olsen@oregonstate.edu)