




Advantage

Degrees Offered

- Bachelor of Science in Geomatics, Surveying Option
- Bachelor of Science in Geomatics, Geographic Information Systems (GIS) Option
- Minor in Geographic Information Systems
- Minor in Surveying

Typical Courses

- Field Surveying
- Boundary Law
- Geographic Information Systems (GIS)
- Global Navigation Satellite Systems (GNSS)

A group of students is gathered on a grassy field, setting up surveying equipment. One student is operating a total station on a tripod, while others are observing or assisting. The background shows a modern building with large windows.

Geomatics Profession

Geomatics professionals manage the global spatial infrastructure. They design, analyze, and manage information that has a spatial dimension. Geomatics encompasses advanced technologies such as dense point clouds, Geographic Information Systems (GIS), the Global Navigation Satellite Systems (GNSS), and drones. In addition they fulfill the traditional role of the land surveyor. Applications include all disciplines that depend on geospatial data, such as Land Surveying, Engineering, Land Information Management, and the Mapping Sciences. Graduates are eligible to sit for the Fundamentals of Surveying (FS) examination and work toward licensure as a Professional Surveyor (PS). Students learn how to protect the health, safety, and welfare of the public.

Oregon Tech Geomatics Department

The Geomatics Department offers a professional BS Surveying degree accredited by ABET. The department also offers a BS GIS degree, which leads to GIS certification. Oregon Tech has offered geomatics education since 1947, and offers the only baccalaureate surveying degree in the Pacific Northwest. Oregon Tech is recognized as a national leader in geomatics education.

- The US Department of Labor identified geotechnology as one of the most important emerging and evolving fields, with salaries comparable to civil engineers.
- Graduates are recruited by private firms and government agencies. Graduates may choose a career path allowing them to work primarily outdoors, exclusively in an office, or in some combination of the two. Positions are available in urban and rural locations.
- Geomatics graduates typically advance rapidly in their chosen career path, and many hold prominent positions in the surveying profession. Geomatics offers a wide variety of career opportunities, from legal research to mathematical positioning.
- 95% of geomatics students are hired upon or before graduation. Half of the licensed surveyors in the nation nearing retirement age, creating geomatics employment opportunities.
- Geomatics students successfully compete for various state and national scholarships.

Geomatics

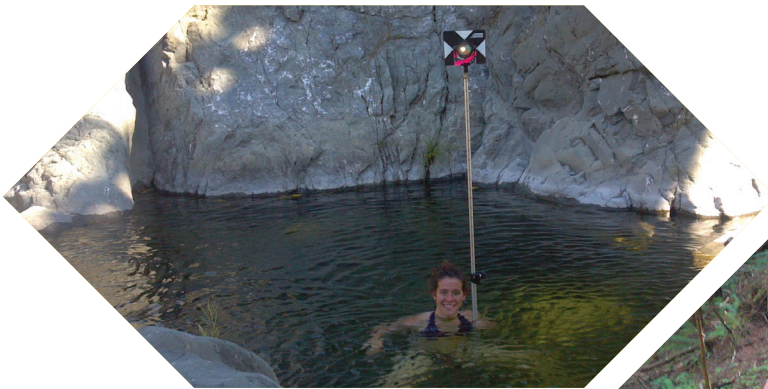
BACHELOR OF SCIENCE AND MINOR

Oregon Tech

Founded in Klamath Falls in 1947, Oregon Institute of Technology is the only polytechnic university in the Pacific Northwest. Oregon Tech offers innovative and rigorous applied degree programs in the areas of engineering, engineering technologies, health technologies, management, and the arts and sciences. To foster student and graduate success, the university provides an intimate, hands-on learning environment, focusing on application of theory to practice. Oregon Tech is best known for its traditional engineering and technological core, but new degree options (and surprising twists on old ones) are remarkably multi-dimensional. A Geomatics student might use drone technology to map an archaeological excavation, or an Environmental Science student may complete an inter-disciplinary application in wetland mapping. A Business Marketing major might locate a new business based on geospatial business data. Information Technology and Health Informatics or Management students might specialize in allied health management. Oregon Tech offers statewide educational opportunities for the emerging needs of Oregon's citizens and provides information and technical expertise to state, national and international constituents. Oregon Tech has a full-service, residential campus in Klamath Falls and an urban, industry-focused campus in Wilsonville.

Oregon Tech – Accreditation & Rankings

As a public polytechnic university, Oregon Tech is well known for its nationally ranked ABET-accredited engineering programs, technical-education, and health-sciences degrees. Oregon Tech is ranked among the top 10 baccalaureate colleges in the Western US, according to US News & World Report and earns the top spot in return on investment for universities in Oregon, according to ThinkAdvisor. Oregon Tech also ranks among the best undergraduate engineering programs in the nation for universities focused on education (45th among the best undergraduate engineering programs in the BS and MS universities category).



Contact Us

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Oregon **TECH**

EXPERIENCE

Department

Geomatics is the modern scientific term referring to an integrated approach to the measurement, analysis, and management of spatial data. Geomatics employs advanced technologies such as Geographic Information systems (GIS), Global Navigation Satellite System (GNSS) positioning, LiDAR and UAS point clouds, robotic total stations, and remote sensing imagery to create a detailed but understandable picture of the Earth's physical features and the built environment. Geomatics encompasses disciplines that depend on georeferenced spatial data, including surveying, engineering, cartography, land information management, geodesy, and remote sensing.

The Geomatics program is offered at:

The Klamath Falls campus

Fully online program in development!

Surveying option degree completion program for transfer students