

GEOGRAPHIC INFORMATION SYSTEM (ONLINE)

Purpose: The Online Certificate in Geographic Information System will prepare students for work in the GIS industry with a focus on mapping, visualization, processing and analysis of geospatial data. Geospatial technology is a field that involves global positioning systems, geographical information systems and remote sensing. This technology offers an innovative way to combine information and maps to produce informational tools to help manage our communities, environment, natural resources and industries. The online Certificate program is designed for traditional students from academic departments other than the Department of Land Resources, non-traditional students and those who are already in the workforce to enhance skills, advance careers and increase competitiveness to meet the challenges of working in this growing field or to continue their education within the geospatial and natural resource management disciplines. Faculty will work collaboratively with industry partners to develop hands-on projects and experiential learning that simulate real-world solutions to industry problems.

Program Requirements

LAND	243	Introduction to Drone Technology	2 hours
LAND	244	Remote Sensing and Aerial Photo	1 hour
NRMT	125	Computer Assisted Mapping	3 hours
NRMT	234	GIS Applications I	3 hours
NRMT	334	GIS Applications II	3 hours
Total			12 credit hours

Contact: Department of Land Resources at (304) 462-6370 for additional information.

RIGHT-OF-WAY

Purpose: The Certificate of Right of Way will prepare students for work in the landman profession with a primary focus on property descriptions and interpretation, title abstracting, boundary surveying methods and laws, energy resource laws, elementary surveying measurements and computations, and business communication and professional development. The students will also be familiar with both computer mapping systems utilizing Cartographic and Geographic Information System (GIS) software. This will allow them to apply for entry level positions in the workforce of the land management and right of way fields. The skills and knowledge would enable them to advance within the employing company.

BUSN	193	Applied Business Communications	3 hours
BUSN	225	Business Ethics	3 hours
LAND	121	Introduction to Land Surveying	3 hours
LAND	123	Land Surveying Descriptions, Interpretation & Writing	2 hours
LAND	124	Land Survey Boundary Law	3 hours
LAMN	293	Land Titles & Abstracting	3 hours
NRMT	125	Computer Assisted Mapping	3 hours
NRMT	234	GIS Applications I	3 hours
NRMT	410	Energy Resource Law	3 hours
Total			26 credit hours

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