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C The Department of Geography and Regional Planning offers three separate degree programs for the geographer, planner, and teacher: bachelor of arts degree with a major in geography, bachelor of science degree with a major in regional planning, and bachelor of science in education degree with a major in social studies education—geography track.

D Specific core requirements in Geography and Regional Planning offer a structured approach for majors. Appropriate **tracks** are available in both programs to prepare students for graduate work and to support different career options for majors. There are **three tracks** for the geography major (**Environment/Energy, Geographic Information Science and Technology, and Human Geography**) and two **tracks** for the regional planning major (**Environmental Planning, Community Planning and Development**).

Department resources, which include the James Payne/Ruth Shirey Geographic Information Science Laboratory, the Robert Begg/Charles Weber Planning Design Laboratory/Studio, and the Dey Whit Watts Planning Studio offer access to spatial analysis and planning design equipment and applications. These well-equipped laboratories and studios house and leverage 50 workstations, large-format plotters, global positioning systems (GPS) units and a base station, small unmanned aerial systems (sUAS) aircraft, a weather station, and hydrologic and atmospheric monitoring devices. Geographic Information Systems (GIS), image processing, geovisualization, planning design, and computer-aided drafting (CAD) software includes the ArcGIS suite, the Adobe Creative Suite, AutoCAD, DroneDeploy UAS, ERDAS Imagine, Google SketchUp, MapInfo, and Trimble GPS PathFinder Office and TerraSync.

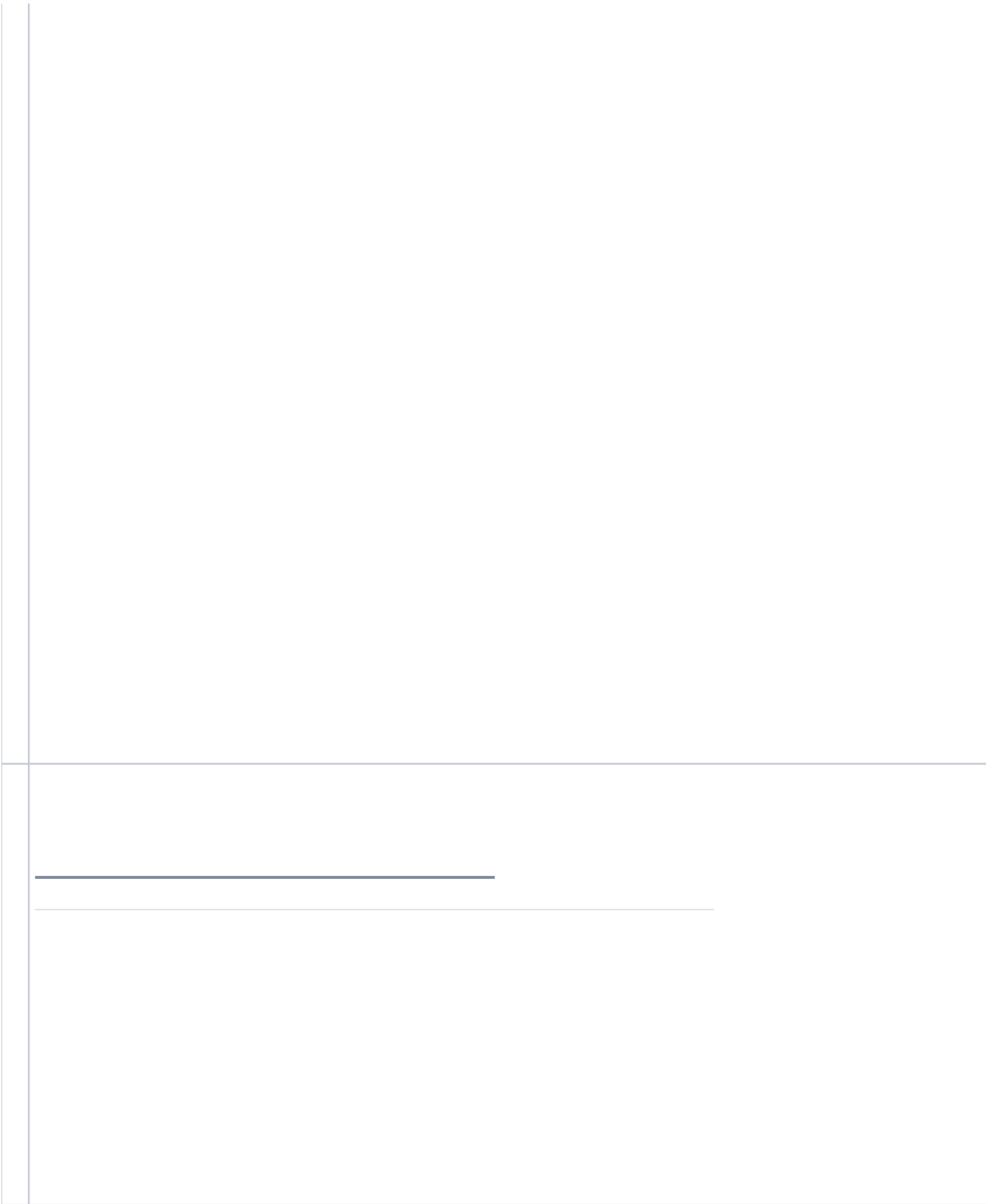
A strong internship program directed by **department faculty** offers numerous public, private, and nonprofit placements in industry, engineering, conservation, land management, and planning agencies at the local, state, and federal levels. Because of employment demand for students from department programs, approximately 80 percent of internship placements are paid positions.

Geography

Geography has several traditions of study. **Three of the most significant are the study of relationships between humans and environment (human-environment interaction), the study of places (their characteristics and structure), and the study of spatial organization (the way people use and organize space on earth, and the distribution of natural phenomena on the earth's surface).** All three traditions focus on understanding distributions of human and natural phenomena at global, regional and local scales, by building knowledge regarding the phenomena under investigation (for example cities, watersheds, business/industry location, habitats, cultural patterns, transportation, land use, resource management, the built environment, and energy production and use) and applying relevant methods and technologies (including geographic information systems (GIS), small unmanned aerial systems (sUAS), remote sensing, global positioning systems (GPS) and geovisualization) to analyze them. The Geography program is organized into three tracks to allow students to build knowledge and skills to pursue their interests and gain employment: Environment/Energy, Geospatial Information Science & Technology, and Human Geography.

Geography—Environment/Energy Track

The Environment/Energy Science & GIS track prepares students for careers in environmental and energy resource management, regulatory and compliance regimes for energy industries at the federal and state levels, mitigation strategies for environmental problems, and conceptual and technical aspects of geospatial techniques implemented in environmental and energy resource analyses and applications. The knowledge and skills acquired in this track prepare students to analyze, manage, and understand land resources, water resources, energy resources and habitats using in) andg035i moe—6.75 Tf 1 0 0 1 65.74 618.94 Tm (G1 6.e knowlenservronment, regulatery and skills)Tjchniques implementeack prepare swET humippedst



(G) Supporting Documents*

Please attach a document with a summary of all proposals.

File

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Microsoft Word Document BA Human Geography Track (2).docx Mar 21, 2018 by Gail S. Sechrist

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