Engs 684: Agricultural Applications Remote Sensing

School of Engineering

This course discusses the application of remote sensing to agricultural production and the supporting technologies that provide for an information-based decision-making process. With the help of this new technology, some producers have adopted precision agriculture and changed field size into smaller, more precise management zones. This course covers the role of remote sensing in crop production, along with the methods it helps create to manage and conserve the natural resources of vegetation, soil, and water. While specific examples of agricultural applications are identified in various types of production, the actual use of precision agriculture technologies is only limited by the imagination of the enduser. What works in one setting for monitoring on a local basis may be utilized in a different manner for inventorying crop production on a regional or global basis. It is under varying conditions of spatial, spectral, radiometric, and temporal resolutions s that new technologies are being used. Examples illustrate possibilities for use and adoption by others. These new technologies are being used under varying spatial, spectral, radiometric and temporal resolutions. Throughout the course, examples will illustrate the current uses of these tools and other areas in which they could be adopted.

3 Credits

Prerequisites

- Student must be admitted to Certificate in Geographic Info Systems program.

Instruction Type(s)

- Indiv Based: Individual Based for Engs 684
- Indiv Based: Online Program for Engs 684

Subject Areas

- Engineering, Other

The University of Mississippi is accredited by the Southern Association of Colleges and Schools Commission on Colleges to award certificates and baccalaureate, master's, specialist, and doctoral degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097, call 404-679-4500, or visit online at www.sacscoc.org for questions about the accreditation.