

## Geographic Info Technology

### **GIT 420 Computer Apps in Earth Science 4 cr**

An introduction to basic Python programming, with examples and exercises pertinent to Earth Science and GIS applications.

Pre-requisite: MA 112 Minimum Grade of D or MA 110 Minimum Grade of C.

### **GIT 442 Remote Sensing II 4 cr**

Analysis of remotely sensed digital data for detection and mapping of Earth resources. Minimum grade of "B" needed in course prerequisite. Fee.

Pre-requisite: (GEO 332 Minimum Grade of B or GY 332 Minimum Grade of B).

### **GIT 460 Intro to GIT 4 cr**

Fundamentals of Geographic Information Systems technology, including software functionality (ArcGIS), data processing, cartography and spatial analysis. Fee.

Pre-requisite: CIS Proficiency Exam P

### **GIT 461 GIT Applications I-Environment 4 cr**

Application of Geographic Information Systems to the studies of the natural environment. Fee.

Pre-requisite: (GIT 460 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C).

### **GIT 462 GIT Apps II-Business/Soc Sci 4 cr**

Application of Geographic Information Systems to Business and the Social Sciences. Prerequisite: GIS 460, with a grade of "C" or better, or permission of instructor. Fee.

Pre-requisite: (GIT 460 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C).

### **GIT 490 Special Topics 2 TO 4 cr**

Geographic Information Technology topics not covered in current GIT courses. May be repeated when content varies for a maximum of 8 credit hours.

Pre-requisite: GIT 460 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C.

### **GIT 494 Directed Studies 2 TO 4 cr**

Geographic Information Technology topics not covered in current GIT courses. May be repeated when content varies for a maximum of 8 credit hours.

Pre-requisite: GIT 460 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C.

### **GIT 496 Internship in GIT 1 TO 4 cr**

On-the-job learning through occupational or professional work with an approved firm or agency. Open to geography majors only. No more than 4 hours of internship credit is allowed.

Pre-requisite: GIT 460 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C.

### **GIT 520 Computer Apps in Earth Science 4 cr**

An introduction to basic Python programming, with examples and exercises pertinent to Earth Sciences and GIS applications.

Pre-requisite: MA 112 Minimum Grade of D or MA 110 Minimum Grade of D.

### **GIT 542 Remote Sensing II 4 cr**

Analysis of remotely sensed digital data for detection and mapping of Earth resources. Minimum grade of "B" needed in course prerequisite. Special project required. Fee.

Pre-requisite: (GEO 332 Minimum Grade of B or GY 332 Minimum Grade of B).

### **GIT 560 Intro to GIT 4 cr**

Fundamentals of Geographic Information Systems technology, including software functionality (ArcGIS), data processing, cartography and spatial analysis. Credit for GIT 460 and GIT 560 not allowed. Special project required. Fee.

Pre-requisite: CIS 150 Minimum Grade of B or CIS Proficiency Exam P .

### **GIT 561 GIT Apps I-Environment - C 4 cr**

Application of Geographic Information Systems to the studies of the natural environment. Credit for GIT 461 and GIT 561 not allowed. Special project required. Fee.

Pre-requisite: (GIT 460 Minimum Grade of C or GIT 560 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C or GEO 560 Minimum Grade of C).

### **GIT 562 GIT Apps II-Business/Soc Sci 4 cr**

Application of Geographic Information Systems to business and the social science. Credit for GIT 462 and GIT 562 not allowed. Special project required. Fee.

Pre-requisite: (GIT 460 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C or GIT 560 Minimum Grade of C or GEO 560 Minimum Grade of C).

### **GIT 590 Special Topics - 2 TO 4 cr**

Geographic Information Technology topics not covered in current GIT courses. May be repeated when content varies for a maximum of 8 credit hours.

Pre-requisite: GIT 460 Minimum Grade of C or GIT 560 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C or GEO 560 Minimum Grade of C.

### **GIT 594 Directed Studies 1 TO 4 cr**

Graduate level independent study under the direction of a member of the graduate faculty. May be used to learn new techniques or to explore research questions of special interests.