

GEOGRAPHIC INFO TECHN (GIT) (GIT)

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.

Prerequisite: MA 112 Minimum Grade of D or MA 110 Minimum Grade of C

Cross-Listed: MET 420

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.

Prerequisite: (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.

GIT 461 Environmental GIS 4 cr

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

Prerequisite: (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.

Prerequisite: (GIT 460 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C)

GIT 490 Special Topics 2-4 cr

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

Prerequisite: GIT 460 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C

GIT 494 Directed Studies 2-4 cr

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

Prerequisite: 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 1-4 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.

Prerequisite: GIT 460 Minimum Grade of C or GEO 460 Minimum Grade of C or GY 460 Minimum Grade of C

GIT 520 Computer Applications in Earth Sciences 4 cr

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

Prerequisite: 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.

Prerequisite: (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.

GIT 561 Environmental GIS 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.

Prerequisite: (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.

Prerequisite: (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 - 2-4 cr

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

Prerequisite: 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 1-4 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.