## COLLIN COLLEGE

**DIVISION OF BUSINESS and COMPUTER SYSTEMS**

Course Syllabus

Course Information

**Course Number:** GISC 1411

**Course Title:** Introduction to Geographic Information Systems (GIS)

**Course Description:**

Introduction to basic concepts of vector GIS using several industry specific software programs. It also includes nomenclature of cartography and geography. Additionally, students will learn to display map data, change symbology, classify features and rasters, use dynamic labeling, join and relate tables, define projections, dissolve features, clip layers, create a geodatabase, and build a GIS model.

**Course Credit Hours:** 4

**Lecture Hours:** 3

**Lab Hours:** 2

**State-mandated Student Learning Outcomes:** Upon successful completion of this course, students will:

1. Explain basic concepts of using GIS in mapping the earth in spatial terms and populating the GIS's system to access data. (SCANS: F1 – F16, C1 – C10)

2. Create and access data in the GIS's system using an appropriate software package. (SCANS: C18 – C20)

3. Develop and print maps with industry standard legends. (SCANS: F9)

4. Operate industry standard GIS packages on a personal computer. (SCANS: C18 – C20)

5. Capture positional and attribute information with correct and accurate geographic referencing. (SCANS: C11 – C14)

6. Convert geographic information among several coordinate systems. (SCANS: C18 – C20)

7. Acquire GIS's system information from databases, existing maps, and the Internet. (SCANS: C11 – C14)

8. Annotate output for finished maps, documents, and reports. (SCANS: C15 – C17)

**Secretary’s Commission on the Acquisition of Necessary Skills (SCANS) -** SCANS skills are a group of foundational skills and workplace competencies that the Secretary’s Commission on the Acquisition of Necessary Skills established as vitally important for workplace success in the 21st century. In Collin’s workforce programs, the SCANS skills are developed and reinforced throughout the curriculum to provide students with an opportunity to hone these skills/competencies in the context of their education. Over the course of an entire degree program, the successful student is expected to demonstrate all of the SCANS skills and competencies as part of their education. The SCANS Foundation Skills and Workplace Competencies are described at:

(<http://www.collin.edu/academics/programs/Workforce_SCANS_Skills_Syllabi_Code_Key.pdf>).

**Withdrawal Policy**: See the current *Collin Registration Guide* for the last day to withdraw.

**Collin College Academic Policies**: See the current *Collin Student Handbook*.

**Americans with Disabilities Act**: Collin College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal opportunity. It is the student’s responsibility to contact the ACCESS office, SCC-D140 or 972.881.5898 (V/TTD: 972.881.5950) to arrange for appropriate accommodations. See the current *Collin Student Handbook* for additional information.

*Fall 2015*