

GEOGRAPHIC INFORMATION SYSTEMS, LESS THAN ONE YEAR CERTIFICATE OF COMPLETION

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|----------------------|---|--------------|
| WR115 | Fundamentals of Report Writing ² | 4 |
| Credits | | 11 |
| Total Credits | | 34-45 |

¹ Call 541-888-7405 to schedule with Internship Coordinator one month prior to term.

² A higher writing may be substituted excluding WR241, WR242, WR243, or WR250.

The Less Than One Year Certificate of Completion Geographic Information Science (GIS) can be completed in one year and will give students the basic knowledge and skills to be employed in an entry level position in the GIS field. GIS is applicable to an array of careers, including forestry, natural resources, planning, real estate, and more!

GRADUATION REQUIREMENTS

Students must complete a minimum of 36 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade 'C' or better. Twelve (12) credits must be completed at Southwestern before the Certificate of Completion is awarded.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program the student will be able to:

- Discuss the benefits and applications of GIS and Cartographic technology
- Demonstrate skills in geographic information systems and cartographic design
- Plan and carry out GIS analyses independently
- Design, build, and use spatial databases

| Course | Title | Credits |
|-------------------|-------------------------------------|--------------|
| First Year | | |
| Fall | | |
| CIS125DB | Database Applications | 3 |
| GEOG265 | Intro to Geographical Info Systems | 4 |
| MTH98 | Math Literacy (or higher) | 4 |
| Credits | | 11 |
| Winter | | |
| BA169Z | Data Analysis Using Microsoft Excel | 4 |
| F222A | Elementary Forest Surveying | 4 |
| F280 | CWE: Forestry | 1-12 |
| GEOG270 | Adv Topics in Geog Info Systems | 3 |
| Credits | | 12-23 |
| Spring | | |
| BA285 | Human Relations in Organizations | 3 |
| GEOG275 | Fundamentals of Cartography | 3 |
| GEOG277 | GIS Capstone | 1 |