

MCRP GIS Requirement

The MCRP degree requires competency in Geographic Information Systems (GIS). This can be fulfilled through a course in the School of PPPM or an equivalent graduate level course at the University of Oregon.

How to fulfill the requirement

- If you take one of the PPPM GIS courses listed below, the requirement will appear as being fulfilled in your Duckweb Degree Audit
- If you take a non-PPPM class listed below, you will need to complete a course Waiver Request Form (downloaded from the School of PPPM Student Resources page (see Departmental Forms: <https://blogs.uoregon.edu/pppm/resources/departmental-forms/>)
 - Under “Reasons for Requesting Waiver” list the course you have completed and note that the course is listed as fulfilling the PPPM GIS requirement
 - You do not need to provide a course syllabus
 - You may submit this form to the Dr. Yizhao Yang (GIS instructor) and the MCRP Program Director for approval
- If you have taken a graduate level class at another institution you can apply for a waiver, but you will need to provide documentation about the course (course name and syllabus)
- If you have an extensive undergraduate coursework or certificates in GIS, please check first with Dr. Yizhao Yang to see if you would be eligible for a waiver

GIS Waiver Approval

- If your waiver is approved it will be recorded in your file
- Waiving the GIS requirement does not waive the total 72 graduate credits required for the MCRP degree. If you have completed graduate credits at another institution you must transfer graduate credits to reduce your total credits (see forms on the Graduate School web page)
- Your waiver will not be recorded on the Degree Audit and will continue to appear as a “red flag”
- When you apply for graduation, your GIS requirement will be cleared by PPPM if you have an approved waiver form on file

Existing GIS (Spatial Analysis) Courses on Campus

1. Intro-level Courses (courses can be taken to fulfill CRP GIS requirement)

PPPM534 Urban GIS. 4 Credits. Introduction to geographic information system and its applications in the planning field. Basic cartographic principles, spatial data mapping and processing, and limitation in GIS applications and social implications.

GEO581 GIScience I. 4 Credits. An introduction to geographic information science, geographic information systems (GIS), the current population survey (CPS), remote sensing, and cartography. Sequence with GEOG 482/582, 491/591. Prereq: GEOG 181. Bone, Kohler, Lobben.

LA 515 Computers in Landscape Architecture 4 Credits Development, application, and evaluation of computer systems for land use and site planning (e.g., geographic information systems); encoding of data, cell storage, and analysis systems. Prerequisite: LA 440/540. Repeatable.

2. Advanced-level Courses (courses can be taken to fulfill CRP GIS requirement)

PPPM595 Advanced Urban GIS. 4 Credits. Spatial and environmental data collection via mobile device, sociodemographic and environmental data mapping, advanced spatial analysis techniques; a community-engaged learning approach centering on a term-long GIS project involving analysis of neighborhood walkability, urban service accessibility, or public transit corridor assessment. Prereq: one of the intro-level GIS courses or instructor approval.

GEO582 GIScience II. 4 Credits. Spatial data collection, spatial data models, database design, data editing, geographic information system (GIS) project management, and advanced topics in geographic information science. Sequence with GEOG 481/581, 491/591, 493/593. Prereq: GEOG 481/581. Bone, Kohler, Lobben, Schmidtke.

GEO590 GIScience: [Topic] [R]. 4 Credits. Advanced topics on geographic information systems science including spatial analysis and modeling, data visualization, cartography, volunteered geographic information, GIS programming. Prereq: GEOG 481/581. Bone, Kohler, Lobben, Schmidtke.

GEO591 Advanced Geographic Information Systems. 4 Credits. Socioeconomic analysis with geographic information systems (GIS) and the U.S. census, network modeling, 3-D models of natural and urban landscapes, web-based GIS and programming. Sequence with GEOG 481/581, 482/582. Prereq: GEOG 482/582. Bone, Kohler, Lobben.

GEO593 Advanced Cartography. 4 Credits. Map design and production methods; use of color, cartographic visualization, graphing, data graphics theory, and integration of geographic information systems (GIS) and graphics tools. Sequence with GEOG 481/581, 482/582. Prereq: GEOG 482/582. Meacham.

GEO595 Geographic Data Analysis. 4 Credits. Analysis and display of geographical data by traditional data-analytical methods and by scientific-visualization approaches. Prereq: GEOG 481/581. Bartlein.

LA 510 Data Visualization 4 Credits Students will learn how to transform data into effective visual representations that can be used as exploratory and analytical tools as well as communication means. (Temporary course number)