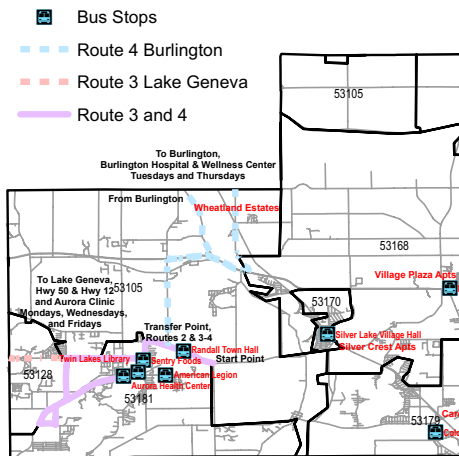


Geographic Information Systems in Transit On-line Course Information

Center for Transportation Education and Development
University of Wisconsin-Milwaukee



CTED at UWM is a recognized national leader in developing and delivering exceptional transit training. For more than 25 years, CTED has built strong working relationships with leading transit professionals in the country.

General Information

For More Information

For further details, contact Ken Woodall at 414-227-3332 or email woodall@uwm.edu. Learn more about this and other CTED programs visit sce-cted.uwm.edu.



School of
Continuing Education

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Instructors:

Dr. Edward Beimborn

Dr. Beimborn recently retired as director of the UWM Center for Urban Transportation Studies and had been a faculty member since 1968. He has been involved in a wide range of policy-related activities and planning studies sponsored by federal, state and local agencies. Dr. Beimborn also has served as a visiting scholar in Great Britain and Israel.

Eric Fowler

Mr. Fowler is GIS Manager for Patrick Engineering Inc., Milwaukee. He has more than 15 years of experience. He has worked for Johnson Controls, designed curriculum and taught both introductory and advanced GIS classes in the urban planning and geography departments at UWM. He earned a certificate in GIS; a Bachelor of Science degree in urban geography; and a master's in urban planning, all from UWM.

Professor William Huxhold

Dr. Huxhold has strong interests in the field of urban geographic information systems. Before arriving at UWM in 1990, he was MIS Project Director for the City of Milwaukee, responsible for the development of information systems for the city. In 1975, he established and directed the nation's first computer graphics based GIS for the City of Milwaukee. He is chair of the UWM Certificate in Urban Geographic Information Systems Program, as well as the URISA GIS Certification Committee. He is also a member of a number of editorial boards, including the International Journal of Geographic Information Systems.

Dr. Zhong-Ren Peng

Dr. Peng, Associate Professor of Urban Planning, was the Director of the UWM Center for Advanced Spatial Information Research. His overall research interest is in urban transportation planning, intelligent transportation systems, and geographic information systems, particularly in the areas of transit planning and distributed geospatial information processing or Internet GIS. Dr. Peng currently works for the University of Florida in the Department of Urban Studies.

Customized Training Delivered to Your Location

CTED provides on-site professional development seminars and custom designed workshops for transit organizations, state Departments of Transportation, as well as non-profit and for-profit organizations throughout the U.S. All CTED workshops can be customized to your specifications and presented at your location. To learn more about customization, contact Ken Woodall at 414-227-3332 or email woodall@uwm.edu.

Who Should Attend?

This course is for any transportation professional who wishes to implement thematic mapping software in their planning, marketing or study.

Workshop Description

Experience the convenience and flexibility of this online 11-week program. Learn how to apply GIS knowledge in transit planning and operations to increase efficiency and effectiveness within your organization.

Course Contents

Section I (weeks 1-2):

Introduction to GIS

- Understanding the utility of GIS in transit

Section II (weeks 3-4):

Fundamentals of Transportation Planning

- Decision oriented planning
- Characteristics of riders/market demand analysis
- Transit performance evaluation
- Route location models

Section III (weeks 5-8):

Concepts for GIS in Transportation Planning

- How GIS enhances the transportation planning process
- How to integrate GIS into the planning process
- What types of data can be analyzed using GIS in a transportation planning context (Tiger files, census data)
- Bringing the results to the internet

Section IV (weeks 9-10):

Database Models

- Database structure for transit GIS
- Linear referencing

Section V (week 11):

Applications of GIS in Transportation Planning

- Best practices in applying GIS
- Advances in technology
- Other technological applications (AVL, GPS, Route Scheduling)

Certifications and CEUs

3.0 Continuing Education Units (CEUs)