

Draft Syllabus
V 437/550 Public Transportation
Fall Semester 2020
Monday and Wednesday
4 PM to 5:15 PM
Location TBD

Instructor: Perry J. Maull
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Perry J. Maull retired at the end of 2018 as the Director of the IU Campus Bus Service a position he had held since 2006. He holds a Master of Business Administration degree in urban transit management and a Bachelor of Science in Business with a major in marketing both from the IU Kelley School of Business. He worked in public transit starting in 1973 as a part-time bus driver for Bloomington Transit while attending IU as a full-time student. He has held the following public transit management positions: Executive Director of Palm Tran, the public transit agency serving Palm Beach County, Florida. Transit Director for the Regional Transit Service which serves the City of Gainesville, Florida and the University of Florida, Deputy Executive Director of the Tri-County Commuter Rail Authority (Tri-Rail) which serves Miami-Dade, Broward and Palm Beach counties, Florida. Transit Director for Space Coast Area Transit the public transit department for Brevard County, Florida. Marketing, Planning, and Development Director for the Miami Valley Regional Transit Authority which serves the City of Dayton and Montgomery County, Ohio. His prior position at Indiana University (1975-1980) was Administrative Director for the Institute for Urban Transportation. He has also held consulting positions in Miami, Florida with the Corradino Group as well as Parsons, Brinkerhoff. He was assigned to consulting projects with the Florida Department of Transportation, Broward County Transit, and the Ministry of Transport of the Government of Trinidad and Tobago. He was inducted into the Florida Public Transportation Association's Hall of Fame as its tenth member in 2013.

Prospectus:

The class will explore the basis of public transportation, including the modes of bus, rail, paratransit, and taxi. The curriculum will include lectures and discussions on:

- Public Transportation Management Elements: Human resources, Finance, Operations, Scheduling, Maintenance, and Planning
- Modes of public transportation
- Federal Public Transportation Policy, Program funding options, Policy development, Interagency programs, and the Federal Authorization process
- Mobility options: Volunteer programs, Car sharing, Ridesharing, Transportation Network Companies, and Coordinated human services transportation programs.

Readings: There is no textbook for this course. Readings will be drawn from the most up to date research reports, primarily published by the Transportation Research Board of the National Academies of Science and Engineering through the Transit Cooperative Research Program (TCRP). Research reports used as readings will be provided in Canvas files.

Class Participation: As required by the IU Office of the Registrar the instructor will take attendance for the first four classes of the semester. Participation in the class will be through discussion time throughout the semester.

Home-Town Public Transportation Paper: Discuss the public transportation services in your home-town. If you have used any of the public transportation services in your home town you should give a brief description of your experiences. Based on your research and what you are learning in this class evaluate how well the public transportation system serves the community. If you live in a very large metropolitan area with many large public transportation services please select one of the services to focus your research. The paper should be 10 to 12 pages. The paper is due Friday October 2, 2020 by 12 Midnight.

Group Project: Future of Public Transportation Group Project: What is the future of public transportation? Over the past few years there have been some major technological changes that have impacted current public transit services across the nation. Transportation Network Companies, such as Uber and Lyft, have expanded rapidly throughout the nation. The Boring Company may provide cost effective tunneling that could dramatically reduce the cost of subway projects. Autonomous vehicle technology may revolutionize how bus services are provided. Please address the potential for public transit in the coming years and what public transit might look like in 2030. Each group will give an approximately twenty-minute PowerPoint. Group presentations will be on Monday November 30 and Wednesday December 2.

Goals:

1. Develop an understanding of the different modes of public transportation and where they work the best.
2. Develop an understanding of the different functions within a transit agency and the training and experience necessary to manage a transit agency.
3. Become familiar with the skills and knowledge required to manage a transit agency and with the public transit resources and how to access and use them.

Course Requirements:

Class Participation	15%	Attendance and Discussion
Quizzes	15%	Questions will be drawn from readings and lectures
Term Paper:	15%	Home-Town Public Transportation
Group Project:	15%	Future of Public Transportation
Midterm	20%	Questions will be drawn from readings and lectures
Final Exam	20%	Questions will be drawn from readings and lectures
Total	100%	

Office Hours: 3 PM to 3:45 PM Monday and Wednesday in SPEA 412 or by appointment.

Schedule and topics to be covered in each class.

Class Dates	Topic	Notes	Readings
Monday August 24	Introduction to Public Transportation.	Students will introduce themselves. Presentation on public transportation.	2020 APTA Fact Book
Wednesday August 26	History of Public Transportation	Evolution of Public Transit Services in the USA	Brief History of Public Transit in the USA
August 30	General Public Transportation Operations		TCRP 100
September 2	Rail Public Transportation		TCRP 13
September 7	Labor Day	NO CLASS	Enjoy your day off!
September 9	Overview of Public Transportation Modes		TCRP 100
September 14	Rail Public Transportation	Capacity and applications	TCRP 13 and 100
September 16	Bus Rapid Transit	Capacity and applications	TCRP 90
September 16	First Quiz	At end of class	
September 18	Fixed Route Bus	Capacity and applications	TCRP 110, 116, 90
September 21	Demand Responsive and Flexible Route Services	Capacity and applications	TCRP 140 and 116
September 23	Rural, Small Urban and Human Services Transportation	Description of various services provided	TCRP 54, 116, and 140
September 30	Private for Hire Vehicles	Taxis and Transportation Network Companies (Uber, Lyft, etc.	TCRP 75 and 195
September 30	Second Quiz	At end of class	
Friday October 2	Home Town Public Transportation Paper	Due by 12 Midnight	

October 5	Public Transit Funding Sources	Local, State, and Federal	TCRP 129
October 7	Civil Rights and Public Transit		TCRP S 135, TCRP B40
October 12	Midterm Review		
October 14	Midterm		
October 19	New Technology		Future of US Public Transportation, Transit Vision 2030 FTA Report 0116
October 21	Mobility Management and Family of Services		TCRP 195
October 26	Land Use and Public Transportation: Livable Cities		TCRP 16, 22, 23, 73, 74, 54, 140
October 28	Public Transit, Shared Mobility, and Personal Automobiles		TCRP 195
November 2	Public Transportation Agency Management		TCRP 90
November 4	Public Transportation Networks		
November 9	Transit Networks		TCRP 90
November 11	Measuring Quality of Service		TCRP 181
November 16	Measuring Public Transportation Capacity		TCRP 181
November 18	Labor Issues in Public Transportation		
November 18	Third Quiz	At the end of class	
November 23	Thanksgiving Break	NO CLASS	
November 25	Thanksgiving Break	NO CLASS	
November 30	Group Presentations	Future of Public Transportation	
December 2	Group Presentations	Future of Public Transportation	
December 7	Summary Session	Highlights of the Course	
December 9	Review for Final Exam		
Date: TBD	Final Exam	TIME: TBD	Place: TBD