

University of Southern California
VITERBI SCHOOL OF ENGINEERING

Master of Science in Civil Engineering (Transportation Engineering)

Program Learning Objectives

The purpose of the USC Viterbi School of Engineering Master of Science in Civil Engineering (Transportation Engineering) program is to prepare students for high level professional employment in any sector of the transportation arena that incorporates analytical techniques; or to pursue advanced graduate studies focusing on related problems in the field. Graduates might pursue transportation-related employment or advanced graduate study relating to facilities and networks, distribution and logistics, planning and analysis, or related areas.

- Upon completion of the USC Master of Science in Civil Engineering (Transportation Engineering) program, students will be able to demonstrate broad understanding of transportation engineering systems, including transportation systems analysis, data management, optimization, predictive modeling and forecasting, technology choice and implementation, transportation planning, societal needs, and the policy or legal context.
- Upon completion of the USC Master of Science in Civil Engineering (Transportation Engineering), students will be able to apply critical principles and skills pertinent to MSCE (Transportation Engineering) duties in their employment and professional practice.
- Upon completion of the USC Master of Science in Civil Engineering (Transportation Engineering), students will be able to work in diverse global contexts and apply universally respectful and globally centric practices pertinent to MSCE (Transportation Engineering) duties in international and domestic contexts.
- USC students enrolled in the Master of Science in Civil Engineering (Transportation Engineering) program will demonstrate understanding of contemporary research questions, results, and areas of application relating to transportation engineering systems, particularly with respect to the urban context.