UNIVERSITY OF ILLINOIS
AT URBANA-CHAMPAIGN

Department of Civil and Environmental Engineering

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Transportation Group
Department of Civil and Environmental Engineering
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Recommendations for 11-month M.S. Program in Transportation Engineering

The listings below highlight courses that the Transportation Faculty deem appropriate for students interested in completing their M.S. degree in eleven months (including no thesis) versus the standard one-and-a-half to two year M.S. degree (with or without thesis). The courses shown below will *usually* be offered in the semesters shown (changes may occur in some years). The degree may also be completed in nine months if five courses are taken in one semester (such a course load would be demanding).

As with all degree program decisions, please coordinate with your advisor for confirmation of your course selection and degree program.

Fall (take three or four)	**Spring** (take three or four)	**Summer** (take one or two)
CEE 401 (Concrete Materials)	CEE 407 (Airport Engineering)	CEE 422 (Construction Cost Analysis)
CEE 405 (Asphalt Materials, I)	CEE 410 (Railway Signaling and Control)	CEE 467 (Masonry Structures)
CEE 406 (Pavement Design, I)	CEE 411 (Railroad Project Design and Construction)	CEE 469 (Wood Structures)
CEE 408 (Railroad Transportation Engineering	CEE 415 (Geometric Design of Roads)	CEE 587 (Applied Rock Mechanics)
CEE 409 (Railroad Track Engineering	CEE 417 (Urban Transportation Planning)	CEE 497* (Independent Study)
CEE 416 (Traffic Capacity Analysis)	CEE498PT (Public Transportation)	CEE 597* (Independent Study)
CEE 498 HSR High-Speed Rail Engineering	CEE 498HRP (High-Speed Rail Planning)	
CEE 498 HRM High-Speed Rail Construction Management	CEE 506 (Pavement Design II)	
CEE 498PS (Pavement Sustainability)	CEE 515 (Traffic Flow Theory)	
CEE 508 (Pavement Eval. & Rehab)	CEE 516 (Network Analysis of Systems)	
CEE 509 (Transportation Soils)	CEE 512 (598-LSA) (Logistics System Analysis)	
CEE 512 (598-LSA) (Logistics System Analysis) offered in odd years.	CEE598ABM (Advanced Bituminous Materials)	
CEE 598TSS (Transportation Soil Stabilization)		

Other courses which may be taken to fulfill an M.S. in Transportation Engineering are CEE 498TSR (Transportation Safety and Risk), CEE 598ART (Advances in Railway Technology), CEE 598ATE (Advanced Railroad Track Engineering), CEE598RVD (Rail Vehicle Dynamics), CEE 598SRC (Shared Rail Corridor Engineering).

All courses shown above can be taken for 4 credits each. A total of 36 credits are required for the M.S. degree with no thesis. A minimum of three 5xx courses (12 credits) must be taken in total, of which a minimum of two of the 5xx courses (8 credits) must be Transportation courses.

* CEE 497/597 Independent Study courses require student to enroll with a CEE professor.

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