

Rail Transportation Minor (Min. 19 Credits)

Required Courses (7 Credits)

CE 4404 - Railroad Engineering
CE 4490 - Rail Transportation Seminar
OSM 4700 - Logistics and Transportation Management

Leadership/Professional Electives (3 Credits)

MGT 3100 Leadership Development	AF 3010 Leadership Studies I
AF 3020 - Leadership Studies II	OSM 3200 - Project Management
HU 3120 - Technical and Professional Communication	MGT 3000 - Organizational Behavior

Railroad Focus Technical Electives (9 Credits)

Civil Track

CE 3401 – Transportation Engineering
CE 4333 - Estimating and Planning of Construction Projects
CE 4407 - Transportation Design
CE 4905 - Senior Design (Railroad Theme)*
CE 4990 - Independent Study in Rail Topics*
CE 5408 - Public Transit
XX-XXXX A course in rail topics from another University*

Mechanical Track

MEEM 3911 – Mechanical Engineering Practice IV
MEEM 4220 - Internal Combustion Engines I
MEEM 4450 - Vehicle Dynamics
MEEM 4901/4911 - Senior Capstone Design (Railroad Theme)*
MEEM 4990 - Independent Study in Rail Topics*
XX-XXXX A course in rail topics from another University*

Electrical Track

EE 3120 – Electric Energy Systems
EE 4219/4220- Intro to Electric Machinery and Drives with lab
EE 4227/4228 - Power Electronics with lab
EE 3160 – Signal Systems
EE 3171 – Microcontroller Applications
EE 3250 – Introduction to Communications Theory
EE 3261 – Control Systems
EE4253 – Real Time Signal Processing
EE 4805 – Electrical Engineering Project with Railroad Focus*
EE 4901/4910 – EE Design Project with Railroad Focus*
XX-XXXX A course in rail topics from another University*