

RAILWAY ENGINEERING, CERTIFICATE

All programs of study must be approved by the student's academic advisor and the director of the Graduate Certificate in Railway Engineering.

Learning Outcomes

1. Identify and describe the technical elements of a railway system including (but not limited to): (i) Track alignment, crossings, bridges, (ii) Train controls, signaling, communications, (iii) Traction power, freight, transit and passenger systems, and (iv) methods of ensuring safe operation.
2. Demonstrate the necessary skills to organize and present rail related project results in written and oral form.
3. Apply appropriate engineering principles, solution methods and knowledge gained from engineering curriculum to accomplish a design at standards consistent with the railway industry practice.