

Purdue University Asset Management of Underground Infrastructure (AMUI) Course

Spring 2025 – TR – 9:00-10:15 am – Room: Hamp 2118

Overview: This course is designed for undergraduate juniors, seniors and graduate students interested in critical system management thinking, and who want to be equipped with the knowledge and skills to tackle the challenges facing the American infrastructure industry.

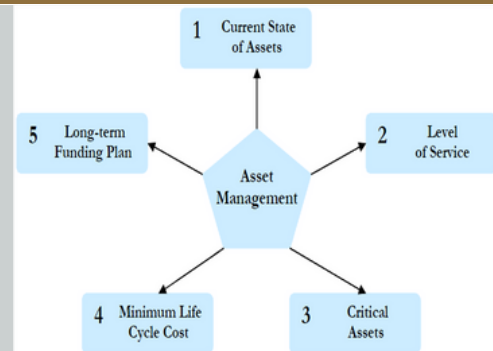


FACTS:

- §2,280,000 miles of buried water pipeline
- §480,000 pipeline failures/year
- §ASCE 2021 Grade Score for Water: D+
- §Total backlog of rehabilitation need - \$2.0T
- §Annual spending on planned renewal - \$3.0B
- §Annual spending on emergency rehab - \$1.8B

OBJECTIVE:

This course introduces Asset Management (AM) practices to manage underground infrastructure systems. This comprehensive approach involves every aspect of the organization to develop and implement best business practices to address the current state of the assets, levels of service, critical assets, life-cycle costing, and funding.



- Learn the key components of Asset Management and develop strategic, tactical, and operational asset management plans.
- Learn about the various advanced technologies used to manage underground infrastructure.
- Learn from industry-leading experts with their knowledge and insight on various topics of asset management.
- Learning by doing a real project
- Opportunities to participate industry conferences (UIC and NASTT Nodig show and more)

Asset management skills are in high demand across a variety of industries, including infrastructure, transportation, and utilities. Learning asset management principles can provide numerous benefits for students' future careers, including better job prospects, improved job performance, enhanced problem-solving skills, better decision-making, and greater job satisfaction.