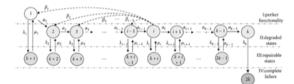


Reliability engineering is the study of how a system is designed, functions and fails and the sustainability of a system over time. It is an engineering approach employing applied mathematics and decision making, probabilistic and statistical methods and numerical analysis. Reliability engineering is critical for a wide range of technologies and industries. The CU Denver College of Engineering, Design and Computing is offering a cross-disciplinary microcredential for students and working professionals. Graduates of the course will be eligible for the industry recognized Reliability Engineer Certification https://asq.org/cert/reliability-engineer

Format: 3 credit cross-listed course at undergraduate and graduate level CVEN 4800; ELEC 4810/5810; MECH 4228/5228 starting Summer 2022



**Civil Engineering Module** 

optimization, the construction, the

structures, offshore facilities, and nuclear structural systems.

operations of structural systems such

Participants will explore the

design, the maintenance, and

as buildings, bridges, earth

## **Electrical Engineering Module**

Participants will explore the design, the operation and failure of an electrical system, a subsystem or components of those system to establish best efficacy and performance. This approach also encompasses software design, security, testing and client support.

## Mechanical Engineering Module

Participants will work in mechatronics to design, build a better and smarter system, and establish how to sustain the system employing sophisticated mathematical (probabilistic and statistical) methods. Reliability engineering supports all manufacturing processes through Statistical Process Control and Analysis.



## Individuals completing this course will receive the Reliability Engineering Micro-Credential from the CU-Denver College of Engineering, Design and Computing and will be eligible to sit for the industry recognized Reliability Engineer Certification CRE exam (https://asq.org/cert/reliability-engineer)



College of Engineering, Design and Computing

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