Reliability

Graduate Certificate in Engineering: 12 credits / 4 courses

Students pursuing a Graduate Certificate in Engineering must complete four of the following courses:

Reliability Core Courses (take two):		
	ENRE600 Fundamentals of Failure Mechanisms*	(every fall)
	ENRE602 Reliability Analysis*	(every fall)

Reliability Pre-approved Technical Electives (choose two):		
	ENRE620 Mathematical Techniques of Reliability Engineering*	(every summer)
	ENRE625 Materials Selection and Mechanical Reliability	
	ENRE640 Collection and Analysis of Reliability Data* [*ENRE602*]	
	ENRE641 Probabilistic Physics of Failure and Accelerated Testing*	
	ENRE642 Reliability Engineering Management	
	ENRE645 Human Reliability Analysis*	
	ENRE648B Special Problems in Reliability Engineering; Life Cycle Cost and System Sustainment Analysis	
	ENRE648J Special Problems in Reliability Engineering; Prognostics and Health Management*	
	ENRE653 Advanced Reliability and Maintainability Engineering [*ENRE602*]	
	ENRE655 Advanced Methods in Reliability Engineering* [*ENRE602*]	
	ENRE670 Probabilistic Risk Assessment* [*ENRE602*]	
	ENRE671 Risk Assessment in Engineering* [*ENRE670*]	
	ENRE684 Information Security*	

*NOTE: Any courses not listed above must be approved by the Senior Academic Advisor **PRIOR** to registration.*

Note:

- **ENRE600** and **ENRE602** are currently only offered in the Fall Semester.
- Students beginning in the Spring Semester *only* may elect to take **ENRE447** and **ENRE655** as a substitute for **ENRE602**.
- Credit will only be granted for **ENRE620**, **ENPM620** or **ENNU620.**

KEY	
Online Option *	(offering information)
[Prerequisite course]	

DISCLAIMER: All offerings are tentative and subject to change. *Updated 4/2/2019*