



**MARY KAY O'CONNOR
PROCESS SAFETY CENTER**
TEXAS A&M ENGINEERING EXPERIMENT STATION



BS Interdisciplinary Engineering Safety Engineering Emphasis

Administered by
Interdisciplinary Engineering Program
In Conjunction with the
Mary Kay O'Connor
Process Safety Center

Interdisciplinary Engineering



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MAY 1962

- **Interdisciplinary engineering degree programs allow students to develop unique skill sets and specialize in areas that may not be provided in traditional department degree programs. Such specializations may be driven by emerging technical fields or by a student's desire to have an immersive interdisciplinary experience.**

- **Safety Engineers deal with the design, operation and maintenance of complex systems and the interaction of these systems with humans.**
- **Safety Engineering is enhanced by a broad background in technical systems and the factors affecting their safety. Guiding principles include inherent safety, reliability and resilience.**
- **The required skills include analytical and problem solving abilities typical of engineering as well as soft skills in communication, human factors and management necessary to implement safety engineering.**

- **Hazards are Interdisciplinary**
They don't care what your major is
Maybe you should be Interdisciplinary too.
- **Get a BS in Interdisciplinary Engineering with a Safety Engineering emphasis**
 - Process Safety
 - System Safety or
 - Environment, Health and Safety

- **3 Safety Tracks and Related Industries**
- **Process Safety** – Petrochemical, Oil and Gas, Nuclear, Pulp and Paper, Pharmaceuticals, Semiconductors
- **Systems Safety** – Defense, Aeronautical, Aerospace, Automotive, Manufacturing, Medical
- **Environmental, Health and Safety** – All of the Above Industries. More Focused on Hazards to Personnel Safety and the Environment.

- **3 Safety Tracks with Certificates and Minors built into the Curriculum**
- **Process Safety**
 - Safety Engineer Certificate
- **Systems Safety**
 - Safety Engineer Certificate
 - Certificate in Engineering Systems Management
- **Environmental, Health and Safety**
 - Safety Engineer Certificate
 - Minor in Occupational Health and Safety



Thank you!

Questions?

<https://engineering.tamu.edu/academics/degrees/interdisciplinary/index.html>

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