

Undergraduate Minors in SIE

Systems Engineering Minor

Required:

- SIE 250 – Intro to Systems & Industrial Engineering (prerequisite: MATH 129, fall only)
- SIE 277 – Object-Oriented Modeling and Design (prerequisite: ECE 175 or CSC 110, fall only)
- SIE 305 – Intro to Engineering Probability and Statistics (prerequisite: MATH 129, fall, spring, summer)
- SIE 431 – Simulation Modeling and Analysis (prerequisite: SIE 305, fall & spring)

Choose 2 courses from:

- SIE 370 – Embedded Computer Systems (prerequisite: PHYS 241, spring only)
- SIE 406 - Quality Engineering (prerequisite: SIE 305, spring only)
- SIE 408 - Reliability Engineering (prerequisite: SIE 305, spring only)
- SIE 410A - Human Factors & Ergonomics in Design (corequisite: SIE 305, fall only)
- SIE 454A - The Systems Engineering Process (fall only)
- SIE 471 – Systems Cyber Security Engineering (prerequisite: ECE 175 or CSC 110, fall only)

Industrial Engineering Minor

Required:

- SIE 305 – Intro to Engineering Probability and Statistics (prerequisite: MATH 129, fall, spring, summer)
- SIE 340 – Deterministic Operations Research (prerequisite: SIE 270, fall only)
- SIE 410A - Human Factors & Ergonomics in Design (prerequisite: SIE 305, fall only)
- SIE 431 – Simulation Modeling and Analysis (prerequisite: SIE 305, fall & spring)

Choose 2 courses from:

- SIE 321 – Probabilistic Models in Operations Research (prerequisite: SIE 305, spring only)
- SIE 330R – Engineering Experiment Design (prerequisite: SIE 305, spring only)
- SIE 383 - Integrated Manufacturing Systems (prerequisites: PHYS 141, spring only)
- SIE 406 - Quality Engineering (prerequisite: SIE 305, spring only)
- SIE 408 - Reliability Engineering (prerequisite: SIE 305, spring only)
- SIE 440 - Survey of Optimization Methods (prerequisite: SIE 340, spring only)
- SIE 462 - Production Systems Analysis (prerequisites: SIE 305 & SIE 340, spring only)
- SIE 465 - Supply Chain Management (prerequisites: SIE 305 & SIE 340, spring only)
- SIE 483 - Computer-Integrated Manufacturing (CIM) Systems (prerequisites: SIE 383, fall only)



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Engineering Management Minor

Required:

- SIE 265 - Engineering Management I (prerequisite: MATH 122B, fall & spring)
- SIE 305 – Intro to Engineering Probability and Statistics (prerequisite: MATH 129, fall, spring, summer)
- SIE 457 – Project Management (fall only)

Choose 3 courses from:

- SIE 367 - Engineering Management II (prerequisite: SIE 265, spring only)
- SIE 406 – Quality Engineering (prerequisite: SIE 305, spring only)
- SIE 408 – Reliability Engineering (prerequisite: SIE 305, spring only)
- SIE 414 – Law for Engineers and Scientists (spring only)
- SIE 415 – Technical Sales and Marketing (fall & spring)
- SIE 422 – Engineering Decision Making Under Uncertainty (prerequisite: SIE 305, fall only)
- SIE 431 – Simulation Modeling and Analysis (prerequisite: SIE 305, fall & spring)
- SIE 462 – Production Systems Analysis (prerequisite: SIE 305 & SIE 340, spring only)
- SIE 465 – Supply Chain Management (prerequisite: SIE 305 & SIE 340, spring only)

Questions? Contact SIE Advising!

Danielle Embry

Senior Academic Advisor

Email: advisor@sie.arizona.edu

Phone: 520.626.8181

Office: Engineering Bldg, room 111