

SYSTEMS ENGINEERING, MINOR (476)

Program Coordinator

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Program Requirements (21-21.5 hours)

Systems engineering is a robust approach to the design, creation, and operation of systems. The minor requires 21 hours for CE and ME majors and 22 hours for EE majors. Students must complete 12 or 12.5 hours of required courses and choose a minimum of 9 hours from elective courses

Code	Title	Hours
Select one of the following:		3-3.5
EE 210	Circuits & Networks I	
EM 222	Statics	
STAT 301	Introductory Probability and Applied Statistics	3
or CE 305	Risk Analysis	
ENGR 400	Principles of Systems Engineering	3
ENGR 491	Senior Project II	3
Select 9 hours from the following:		9
CE 303	Construction Management	
EE 460	Continuous Control Systems	
EM 313	Dynamics	
Any CE 400-level technical elective		
Any EE 400-level technical elective		
Any ME 49x technical electives		
Total Hours		21-21.5

The technical elective must incorporate or expand on systems engineering principles as outlined in ENGR 400. Technical elective courses currently meeting this intent include but are not limited to the following:

Code	Title	Hours
CE 300	Floodplain Management	3
CE 378	Route Surveying	3
CE 379	Route Surveying Lab	1
CE 380	Boundary Surveying	3
CE 381	Boundary Surveying Lab	1
CE 383	Structural Steel Design	3
CE 384	Reinforced Concrete Design	3
CE 426	Advanced Construction Materials	3
CE 440	Masonry Design and Construction	3
EE 410 & EE 411	Computer Design and Computer Design Lab	4
EE 443	Microfabrication and MEMS	3
EE 431	Introduction to Power Systems	3.5
EE 432	Power Systems II	3
EE 461	Discrete Control Systems	3

ME 49x courses taken in consultation with your advisor