

Systems Engineering

Administered by the Department of Industrial and Manufacturing Systems Engineering

Work is offered for the master of engineering with a major in systems engineering. The graduate major in Systems Engineering is primarily an off-campus program. It is an interdisciplinary program that allows students to take courses across a variety of departments. Graduates of the program will possess the analytical abilities needed to design, evaluate, and build complex systems involving many components and demanding specifications. They will have the ability to work across disciplinary boundaries, as the practice of modern engineering often requires. Graduates will have developed management capabilities and extended their disciplinary knowledge.

The program is broadly based and uses courses in the various departments of the College of Engineering and courses in other departments of the university. The 30 credits necessary for graduation includes 30 semester credits of formal coursework. Completion of the program requires two courses in systems engineering, eighteen to twenty one credits of engineering elective, and six to nine credits outside of the college of engineering. Courses are delivered to off-campus students through various distance education systems, including video-streaming, podcasting, and ftp downloading.

The student, in consultation with the faculty adviser, determines the courses to be taken and the acceptability of transfer credits.

Admission to the program requires a baccalaureate degree in engineering and admission to the graduate college. Students with degrees in other areas will be considered on an individual basis. The degree awarded is a Master of Engineering in Systems Engineering.

Systems Engineering Graduate Certificate (four courses and a one credit independent study) 13 cr.

I E 565	Systems Engineering and Analysis	3
I E 566	Applied Systems Engineering	3
I E 570	Systems Engineering and Project Management	3
I E 585	Requirements Engineering	3
I E 590	Special Topics	1
Total Credits		13

For additional information students should contact the Chair of the Supervisory Committee, 3004 Black Engineering Building, ISU, Ames, Iowa 50011 or visit <http://www.eol.iastate.edu/graduate-degrees/systems-engineering-master%E2%80%99s-degree-online/>