



INDUSTRIAL AND SYSTEMS ENGINEERING PhD Program

REMEDIAL COURSES				
Dept.	Code	Course Name	CR.	ECTS
ISE	352	Linear Systems & Control	NC	NC
ISE	302	Systems Engineering Methods	NC	NC
ISE	222	Operations Research I	NC	NC
ISE	361	Production Systems Design	NC	NC
MATH	281	Probability	NC	NC
PROGRAM COURSES				
Dept.	Code	Course Name	CR.	ECTS
ESYE	501	Research Methodology	3	10
ESYE	505	Systems Engineering Methodology	3	10
ESYE	522	Operations Research	3	10
		Area Elective I	3	10
		Area Elective II	3	10
		Area Elective III	3	10
		Free Elective I	3	10
ESYE	690	PhD Seminar	NC	2
ESYE	691	Independent Study for Qualifying Exam	NC	30
ESYE	700	PhD Dissertation	NC	150
TOTAL Credits:			21	252
EXTRA/NON-DEGREE COURSES				
Dept.	Code	Course Name	CR.	ECTS
		Extra/Non-degree	NC	NC

Course Group	Description
Remedial Courses	Undergraduate level courses offered by department
Area Elective I-III	All GSNAS courses in the elective pool offered by all department.
Free Elective I	Unrestricted, by approval of advisor and ESYE department.
Extra/Non-degree	Optional non-credit (NC) courses that are not part of the program.