

BS: (COOPERATIVE) ENGINEERING SCIENCE DEGREE PLAN (ENGS) BSIE: Industrial and Manufacturing Systems Engineering from the University of Texas at Arlington	
UNIVERSITY REQUIREMENTS	
Please see the University Requirements section of this catalog (page 36).	
MAJOR REQUIREMENTS	
Physics	
PHYS 120 Engineering Physics I	(3) ¹
PHYS 121 Engineering Physics I Lab	(1) ¹
PHYS 122/123 Engineering Physics II Lecture/Lab	(4) ¹
Engineering	
ENGR 115/116	4
ENGR 220 Engineering Mechanics: Statics	3
ENGR 222 Engineering Mechanics: Dynamics	3
ENGR 335/336 Introduction to Electronics Lecture/Lab	3
ENGR 388 Network Analysis	3
Successful completion of 32 hours of engineering courses at the University of Texas at Arlington (≥C)	
TOTAL	48
¹ Hours (in parentheses) may also fulfill university requirements and are not included in total major hours	
SUPPLEMENT FOR MAJOR	
Chemistry	
CHEM 133 General Chemistry I	3
CHEM 131 General Chemistry I Lab	1
CHEM 132/134 General Chemistry II Lecture/Lab	4
Computer Science	
CS 120 Programming I	3
CS 130 Programming II and Data Structures	3
Mathematics	
MATH 185 Calculus I	(3) ¹
MATH 187 Calculus Computer Lab	1
MATH 186 Calculus II	3
MATH 286 Calculus III	3
MATH 287 Projects in Calculus	1
MATH 361 Ordinary Differential Equations	3
History	
HIST 117, 118, 221, 222	(6) ¹
TOTAL	25
¹ Hours (in parentheses) may also fulfill university requirements and are not included in total major hours	
ELECTIVES	
Minimum	1
TOTAL MAJOR HOURS	75
OTHER GRADUATION REQUIREMENTS	
Only courses ≥C transfer to UTA	
Only courses ≥C at UTA can be used toward completion	
Minimum GPA for acceptance to UTA	2.50
Minimum advanced hours	33
Minimum total ACU hours	96
Minimum total hours	128
<i>Courses numbered 0** do not count in minimum hours required for degree.</i>	

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