

ENGINEERING - COE

ENGINEERING

Engineering Science - Associate of Science in Engineering Science (ASES).2-3

Academic Degrees and Certificates 2018-2019

Associate of Science in ENGINEERING SCIENCE

FIRST YEAR

First Semester - Fall

			SCH
ENGL	1301	Composition I	3
HIST	#3## 1	American History Elective	3
MATH	2413	Calculus I	4
CHEM	1311	General Chemistry I (Lecture)	3
CHEM	1111	General Chemistry I (Lab)	1
ENGR	1201	Introduction to Engineering	2
Semester Total			16

Second Semester - Spring

ENGR	1204	Engineering Graphics I	2
ENGL	1302	Composition II OR	
ENGL	2311	Technical & Business Writing	3
MATH	2414	Calculus II	4
PHYS	2325	University Physics I (Lecture)	3
PHYS	2125	University Physics I (Lab)	1
GOVT	2305	Federal Government	
GOVT	2306	Texas Government	3
Semester Total			16

SECOND YEAR

First Semester - Fall

			SCH
ENGR	2304	Programming for Engineers	
ECON	2301	Principles of Macroeconomics OR	
ECON	2302	Principles of Microeconomics	
ENGR	2301	Engineering Mechanics-Statics	3
MATH	2415	Calculus III	4
PHYS	2326	University Physics II (Lecture)	3
PHYS	2126	University Physics II (Lab)	1
Semester Total			17

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Second Semester - Spring

ENGR	2405	Electrical Circuits I	4
MATH	2320	Differential Equations	3
XXXX	#3## 2	Engineering Elective	3
XXXX	#3## 1	Creative Arts Elective	3
XXXX	#3## 1	Language, Philosophy, & Culture Elective	3
Semester Total			16
Total Minimum Credits for the ASES Degree			65

¹

² Consult with an advisor to select an appropriate elective.