ENGINEERING - COE 2020 - 2021

ENGINEERING SCIENCE

Associate of Science in Engineering Science - Chemical Engineering - Field of Study Curriculum 2 Associate of Science in Engineering Science - Civil/Environmental Engineering - Field of Study Curriculum 3 Associate of Science in Engineering Science - Electrical/Computer Engineering - Field of Study Curriculum 4 Associate of Science in Engineering Science - Mechanical Engineering - Field of Study Curriculum 5

Associate o	f Science in	
ENGINEERII	NG SCIENCE	
Chemical Er	ngineering - Field of Study Curriculum	
	FIRST YEAR	SCH
First Semeste	r - Fall	
ENGR 1201	Introduction to Engineering	2
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
	Semester Total	16
Second Seme	ster - Spring	
CHEM 1412	General Chemistry II (Lecture & Lab)	4
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
	Semester Total	15
	SECOND YEAR	
	Chemical Engineering Specialization	
First Semeste	r - Fall	
ENGR 2304	Programming for Engineers	3
MATH 2415	Calculus III	4
CHEM 2323	Organic Chemistry I (Lecture)	3
CHEM 2123	Organic Chemistry I (Lab)	1
PHYS 2326	University Physics II (Lecture)	3
PHYS 2126	University Physics II (Lab)	1
ECON 2301	Principles of Macroeconomics OR	
ECON 2302	Principles of Microeconomics	3
	Semester Total	18
Second Seme	ster - Spring	
CHEM 2325	Organic Chemistry II (Lecture)	3
CHEM 2125	Organic Chemistry II (Lab)	1
ENGR 2333	Elementary Chemical Engineering	3
XXXX #3##1	Language, Philosophy, & Culture Elective	3
XXXX #1## ²	Transferable Elective	1
	Semester Total	11
Total Minimu	m Credits for the ASES Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	
	² Consult with an advisor to select an appropriate elective.	

Consult with advisor regarding Core completion

ENGINEERI	NG SCIENCE	
Civil / Envir	onmental Engineering - Field of Study Curriculum	
	FIRST YEAR	SCH
First Semeste	r - Fall	
ENGR 1201	Introduction to Engineering	2
ENGL 1301	Composition I	3
HIST #3##1	American History Elective	3
MATH 2413	Calculus I	4
CHEM 1412	General Chemistry II (Lecture & Lab)	4
	Semester Total	16
Second Seme	ster - Spring	
ENGR 1204	Engineering Graphics I	2
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
ECON 2301	Principles of Macroeconomics OR	
ECON 2302	Principles of Microeconomics	3
	Semester Total	16
	SECOND YEAR	
	Civil Engineering Specialization	
First Semeste	r - Fall	
ENGR 2304	Programming for Engineers	3
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
XXXX #3##1	Language, Philosophy, & Culture Elective	3
	Semester Total	17
Second Seme	ster - Spring	
ENGR 2405	Electrical Circuits I	4
MATH 2320	Differential Equations	3
ENGR 2302	Engineering Mechanics - Dynamics	3
XXXX #1## ²	Transferable Elective	1
	Semester Total	11
Total Minimu	m Credits for the ASES Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	
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	Consult with advisor regarding Core completion	

ENGINEERIN	G SCIENCE	
Electrical / Co	omputer Engineering - Field of Study Curriculum	
-	FIRST YEAR	SCH
First Semester -	Fall	
ENGR 1201	Introduction to Engineering	2
ENGL 1301	Composition I	3
HIST #3##1	American History Elective	3
MATH 2413	Calculus I	4
CHEM 1412	General Chemistry II (Lecture & Lab)	4
	Semester Total	16
Second Semest	er - Spring	
ENGR 1204	Engineering Graphics I	2
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
ECON 2301	Principles of Macroeconomics OR	
ECON 2302	Principles of Microeconomics	3
	Semester Total	16
	SECOND YEAR	
	Electrical Engineering Specialization	
First Semester -	Fall	
ENGR 2304	Programming for Engineers	3
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
XXXX #3##1	Language, Philosophy, & Culture Elective	3
	Semester Total	17
Second Semest	er - Spring	
ENGR 2405	Electrical Circuits I	4
MATH 2320	Differential Equations	3
COSC 1436	Programming Fundamentals I OR	
COSC 1420	C Programming	4
	Semester Total	11
Total Minimum Credits for the ASES Degree		
	¹ A list of electives appears in the Core Curriculum section of this catalog.	
	Consult with advisor regarding Core completion	

ENGINEERIN	G SCIENCE	
Mechanical I	Engineering - Field of Study Curriculum	
	FIRST YEAR	SCH
First Semester	- Fall	
ENGR 1201	Introduction to Engineering	2
ENGL 1301	Composition I	3
HIST #3##1	American History Elective	3
MATH 2413	Calculus I	4
CHEM 1412	General Chemistry I (Lecture & Lab)	4
	Semester Total	16
Second Semest	er - Spring	
ENGR 1204	Engineering Graphics I	2
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
ECON 2301	Principles of Macroeconomics OR	
ECON 2302	Principles of Microeconomics	3
	Semester Total	16
	SECOND YEAR	
	Mechanical Engineering Specialization	
First Semester	- Fall	
ENGR 2304	Programming for Engineers	3
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
XXXX #3##1	Language, Philosophy, & Culture Elective	3
	Semester Total	17
Second Semest	er - Spring	
ENGR 2405	Electrical Circuits I	4
MATH 2320	Differential Equations	3
ENGR 2302	Engineering Mechanics - Dynamics	3
XXXX #1## ²	Transferable Elective	1
	Semester Total	11
Total Minimum	Credits for the ASES Degree	60
	¹ A list of electives appears in the Core Curriculum section of this catalog.	
	² Consult with an advisor to select an appropriate elective.	
	Consult with advisor regarding Core completion	