

Best Choices Guide



Mechanical Engineering (BS)

The Associate of Engineering Science Degree in Mechanical Engineering program is designed for students who wish to earn an AES at a Colorado Community College and transfer to UCCS to finish a bachelor of science degree in Mechanical Engineering. Please note that final graduation requirements for the bachelor's degree will be based on your year of admission to UCCS. Contact transfer@uccs.edu for more information.

To earn the Associate of Engineering Science Degree, students must complete the following course requirements for a total minimum of 64 semester credit hours, at least 30 of which must be general education courses and at least 15 must be from Colorado State-Guaranteed courses. Courses taken at other colleges, AP, IB, CLEP, DSST, and other sources of credit may not be applicable upon transfer to UCCS even if applied to the associate's degree at the Colorado Community College (CCC). Check the CDHE's <u>GT Pathways</u> website for more information.

General Education Courses	PPSC Courses	PPSC credit	UCCS course equivalents
(42 hours)		hours	
Written Communication	Complete one (1) course from:		
(3 hours)	• ENG 1021 or	3	ENGL 1310 or
	• ENG 1022 or		ENGL 1410 or
	• ENG 1031		TCID 2090
Mathematics	Complete all four (4) of the following:		
(18 hours)	• MAT 2410	5	MATH 1350
	• MAT 2420	5	MATH 1360
	• MAT 2430	4	MATH 2350
	• MAT 2562	4	MATH 3130 & 3400
Arts & Humanities	Complete one (1) course from:		
(3 hours)	• PHI 2018 Environmental Ethics or	3	Humanities & Sustainability course
	any GT-AH course		Humanities course
Social & Behavioral Sciences	Complete one (1) course from:		
(3 hours)	• ECO 2002 or	3	ECON 1010 or
	• ECO 2001 or		ECON 2020 or
	any GT-SS course		Social Science course
Physical and Life Sciences	Complete all three (3) of the following:		
(15 hours)	• PHY 2111	5	PES 1110
	• PHY 2112	5	PES 1120
	• CHE 1111	5	CHEM 1401 & 1402
Additional Required Courses	PPSC Courses	PPSC credit	UCCS course equivalents
(22-23 hours)		hours	
	EGG 1020 (Methods)	3	MAE 1502
Courses required for the Associate	EGG 2011 (Statics)	3	MAE 2103
of Engineering Science degree in	EGG 2012 (Dynamics)	3	MAE 2104
Mechanical Engineering.	EGG 230/2020 (Thermodynamics)	3	MAE 2301
	EGT 1110 (Intro Design)	3	MAE 1503
	CSC 1060 (Computer Science I)	4	MAE 1090
	AES elective – choose 1 from:	3-4	
	a. EGG 2041 (4) (recommended)		a. MAE 2055 (4)
	b. EGG 2030 (3)		b. MAE 3201 (3)
	c. BUS 2016 (3)		c. BLAW 2000 (3)

Additional Resources

The UCCS transfer website (transfer.uccs.edu) has many additional resources for students transferring from CCCS to UCCS.



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Four-Year Degree Plan - Mechanical Engineering

The following four-year plan lists all the specific course requirements for the Bachelor of Science in Mechanical Engineering degree at UCCS. The order in which these courses are taken may vary with course availability. **Students are responsible for completing all course prerequisites.** Please note that this is a *suggested* degree program; your program may vary.

	to differences in hours for math and science courses. gested First Year					
	FALL		1	SPRING		
1	Course	Hours	1	Course	Hours	
	EGG 1020	3		EGT 1110	3	
	MAT 2410	5		MAT 2420	5	
	CHE 1111	5		PHY 2111	5	
	ENG 1021 or ENGL 1022 or ENGL 1031*	3		GT-AH course	3	
	ΤΟΤΑΙ	. 16		TOTAL	16	
Sug	gested Second Year					
FALL			1	SPRING		
1	Course	Hours	1	Course	Hours	
	EGG 2011	3		EGG 2012	3	
	MAT 2430	4		MAT 2562	4	
	PHY 2112			CSC 1060	4	
	AES elective – EGG 2041 highly recommended	4		AES elective – EGG 2020	3	
				GT-SS course	3	
	ΤΟΤΑΙ	. 16		TOTAL	17	
Sug	gested Third Year			·		
	FALL			SPRING		
1	Course	Hours	1	Course	Hours	
	MAE 2055 or MAE 3201**	3		MAE 3201 or BUS 2016	3	
	(whichever wasn't taken at CCCS)MAE 2200MAE 3302MAE 4020TCID 2090 or ENGL 1310 or ENGL 1410*			(whichever wasn't taken at CCCS)		
				MAE 3005	3	
				MAE 3401	3	
				ENGR 3040	3	
				Technical Elective	3	
	(whichever wasn't taken at CCCS)					
				Humanities/Social Science elective (Inclusiveness)	3	
	ΤΟΤΑΙ	. 15		TOTAL	18	
Sug	gested Fourth Year		-			
	FALL			SPRING		
1	Course	Hours	1	Course	Hours	
	MAE 3130	4		MAE 4310	4	
	MAE 3501	3		MAE 4120		
	MAE 4000	1		MAE 4511 (spring only)		
	MAE 4421	3		Technical Elective		
	MAE 4510 (fall only)	2		Technical Elective	3	
	Technical Elective	3				

Transfer Completion

After completing the AES, you should be able to complete the remainder of your BS degree in Mechanical Engineering in two additional years, if you have followed the transfer plan in its entirety. However, most students take 1 to 3 classes in the summer to relieve their spring and fall semester loads.

*ENGL 1310 or ENGL 1410 and TCID 2090 are required for the BS at UCCS.

**MAE 2055 is a prerequisite for MAE 3201, so it is highly recommended that EGG 2041 be taken for one of the AES electives before transferring to UCCS.