

Associate of Sciences Degree in Science: Engineering – 2 YR Pathway

Material Science & Engineering-VT

✓	Course	Title	Cr	Offered	Pre-Req	Mode	Other Options	Notes
First Semester								
	SDV 100	College Success Skills	1	F, SP, SU		F, H, O		
	ENG 111	College Composition I	3	F, SP, SU	*	F, H, O		
	MTH 173	Calculus w/Analytic Geometry I	5	F, SP	MTH 164	F		
	EGR 126	Computer Programming for Engineers	3	F, SP, SU	*	F		
	CHM 111	College Chemistry I	4	F, SP, SU	*, MTE 1-9	F, H, O		
	EGR 120	Intro to Engineering	2	F		F		Co-Requisite MTH 173
Second Semester								
	ENG 112	College Composition II	3	F, SP, SU	ENG 111	F, H, O		
	MTH 174	Calculus w/Analytic Geometry II	5	F, SP	MTH 173	F		
	EGR 123	Intro to Engineering Design	2	F, SP	MTH 173, EGR 120, 126	F		
	MTH 285	Linear Algebra	3	SP				Co-Requisite MTH 174
	PED/HLT	Physical Education/Health	1	F, SP, SU		F, H, O		
Third Semester								
	PHY 241	University Physics I	4	F, SP, SU	*	F, H, O		Co-Requisite MTH 173
		Social Science Elective	3	F, SP, SU	*	F, H, O		
	CST	Communication Elective	4	F, SP, SU	*	F, H, O		
	EGR 140	Engineering Mechanics - Statics	3	F	MTH 174			EGR 140, 206, 245, 246, 251/255
	CHM 112	College Chemistry II	4	F, SP, SU	CHM 111	F, H, O		Course sub in place of EGR/MTH Elective
	MTH 277	Vector Calculus	4	F, SP	MTH 174			
Fourth Semester								
	PHY 242	University Physics II	4	F, SP, SU	PHY 241	F, H, O		Co-Requisite MTH 174
		Humanities/Fine Arts Elective	3	F, SP, SU	*	F, H, O		
	EGR 246	Mechanics of Materials	3	SP	EGR 140			EGR 140, 206, 245, 246, 251/255
		Social Science Elective	3	F, SP, SU	*	F, H, O		
	ENG	Literature Elective	3	F, SP, SU	ENG 112	F, H, O		
	MTH 291	Differential Equations	3	F, SP	MTH 174			
		Program Total	65-72					

*Readiness to enroll in ENG 111

Term Offered: F-Fall, SP-Spring, SU-Summer

Mode: F-Face-to-Face, O-Online, H-Hybrid, D-Distanced to another location