

NVCC Engineering (AS) Degree 2020-21			
Semester 1			UDC - BioMedical
SDV	100	College Success Skills	1
ENG	111	College Composition I	3
ENG	112	College Composition II	3
CST		Communication Elective	3
		Social Science Elective	3
		Social Science Elective	3
		Humanities/Fine Arts Elective	3
		Humanities/Fine Arts Elective	3
MTH	263	Calculus with Analytic Geometry I	4
MTH	264	Calculus with Analytic Geometry II	4
MTH	265	Vector Calculus	4
MTH	267	Differential Equations	3
PHY	231	General University Physics I	5
PHY	232	General University Physics II	5
EGR	121	Foundations of Engineering	2
		Engineering/Technical Electives	Min 18 credits
			CHM 111
			EGR 240
			EGR 122
			EGR 246
			MTH 266
		BIO 101	
Total Elective Credits =			
Extra Courses that NOVA offers that will transfer in the discipline but are beyond the degree requirements.			EGR 245
			EGR 126
Advising Notes:			
<p>Engineering/Technical Electives</p> <ul style="list-style-type: none"> • BIO 101 - 4 cr • CHM 111 - 4cr • CHM 112 - 4cr • CHM 241 - 3cr • CHM 245- 2cr • CHM 242 - 3cr • CHM 246- 2cr • CIV 240 - 3cr • CIV 280 - 3cr • CIV 225/226 - 2/1cr • CSC 201 - 4cr • CSC 202 - 4cr • CSC 205 - 3 cr • EGR 115 - 2 cr • EGR 126 - 3cr • EGR 206 - 2cr • EGR 240 - 3cr • EGR 245 - 3cr • EGR 246 - 3cr • EGR 248 - 3cr • EGR 251 - 3cr • EGR 252 - 3cr • EGR 255 - 1cr • EGR 265 - 4 cr • EGR 295 - 3cr • GOL 105 - 3 cr • MTH 266 - 3cr • LinAlg • MTH 288 - 3cr • DiscMa • PHY 243 - 4cr 			

NVCC Engineering (AS) Degree 2020-21				Computer Science			Construction Eng & Mang.	Cyber	Electrical					Materials	
Semester 1				VT	UVA	UDC	VT	GMU	GMU	VT	VCU	UVA	UDC	VT	
SDV	100	College Success Skills	1												
ENG	111	College Composition I	3												
ENG	112	College Composition II	3												
CST		Communication Elective	3	CST 100				CST 100	CST 100						
		Social Science Elective	3				ECO 201	ECO 202	ECO 202		PHI 220			ECO 202	
		Social Science Elective	3				ECO 202								
		Humanities/Fine Arts Elective	3												
		Humanities/Fine Arts Elective	3												
MTH	263	Calculus with Analytic Geometry I	4												
MTH	264	Calculus with Analytic Geometry II	4												
MTH	265	Vector Calculus	4												
MTH	267	Differential Equations	3												
PHY	231	General University Physics I	5												
PHY	232	General University Physics II	5												
EGR	121	Foundations of Engineering	2		Note 1						Note 1				
		Engineering/Technical Electives	Min 18 credits	CHM 111	CHM 111	CSC 130*	CHM 111	CSC 201	CSC 201	CHM 111	CHM 111	CHM 111	CHM 111	CHEM 111	
				CSC 201	EGR 122	CSC 201	EGR 240	MTH 266	EGR 251	EGR 126	EGR 126	EGR 122	EGR 251	EGR 251	EGR 240
				EGR 122	CSC 201	MTH 288	EGR 122	EGR 265	EGR 252	EGR 251	EGR 251	CSC 201	CSC 201	CSC 201	EGR 122
				CSC 202	MTH 288	CSC 202	MTH 266		EGR 255	EGR 252	EGR 252	EGR 265	EGR 240	EGR 240	CHM 112
				MTH 288	CSC 202	MTH 266	EGR 246		MTH 266	EGR 255	EGR 255	CSC 202	EGR 255	EGR 255	MTH 266
						CSC 206*	**		EGR 122	MTH 266	CHM 112 or BIO 101	PHY 243	PHY 243	PHY 243	EGR 246
		Total Elective Credits =	18	18	19**	11*	14*	20	19	23	20	20	20		
Extra Courses that NOVA offers that will transfer in the discipline but are beyond the degree requirements.				MTH 266	CHM 112/BIO 101					CST 227	EGR 251				
					CSC 205						EGR 255				
Advising Notes:															
Engineering/Technical Electives <ul style="list-style-type: none"> BIO 101 - 4 cr CHM 111 - 4cr CHM 112 - 4cr CHM 241 - 3cr CHM 245 - 2cr CHM 242 - 3cr CHM 246 - 2cr CIV 240 - 3cr CIV 280 - 3cr CIV 225/226 - 2/1cr CSC 201 - 4cr CSC 202 - 4cr CSC 205 - 3 cr EGR 115 - 2 cr EGR 126 - 3cr EGR 206 - 2cr EGR 240 - 3cr EGR 245 - 3cr EGR 246 - 3cr EGR 248 - 3cr EGR 251 - 3cr EGR 252 - 3cr EGR 255 - 1cr EGR 265 - 4 cr EGR 295 - 3cr GOL 105 - 3 cr MTH 266 - 3cr LinAlg MTH 288 - 3cr DiscMa PHY 243 - 4cr 				Note 1: For students attending UVA will also need to take EGR 122 to earn credit for ENGR 1624.	*Not on the list of approved electives. Students will need to get a substitution	Note: EGR 122 is a pre-requisite for first semester courses at VT. **Choose one course from the following: ACC211 or BUS 224. This course will transfer but is not on the Engineering Technical Electives list due to hidden pre-reqs. A student can transfer this course to the institution but the pre-reqs will not complete an "Engineering/Technical Elective" requirement.	Encourage students to join ADVANCE to fill the remaining course slots with GMU courses.	Encourage students to join ADVANCE to fill the remaining course slots with GMU courses if student wants to earn the AS degree. Please speak to a faculty advisor for course and transferability options.	Note: EGR 122 & EGR 126 are pre-requisites for first semester courses at VT.	Students needs to be sure to take EGR 251/252/255 as a group to get credit for Circuits 1 & II.	Note 1: For students attending UVA will also need to take EGR 122 to earn credit for ENGR 1624.				

