

## VIRGINIA COMMUNITY COLLEGE SYSTEM (VCCS) PROGRAM PLANNING: COMPUTER ENGINEERING or ELECTRICAL ENGINEERING

*Program planning for students admitted Fall Semester 2023 and after. Courses subject to change.*

**Bolded courses indicate specific major and departmental recommendations.**

CNU Requirement	CNU Equivalent Course	VCCS Transfer Course(s)
<b>I. Liberal Learning Foundations (21 hours minimum)</b>		
<i>Foundation courses may NOT be used to satisfy the A of I requirement.</i>		
<i>Second Language Literacy is a graduation requirement for all students.</i>		
<i>Written Communication Literacy (6 hours minimum)</i>	ENGL 123/223	ENG 111/112
<i>Second Language Literacy 200 level or higher (3 hours minimum)</i>	LANG 201 or higher Arabic, Chinese, French, German, Italian, Latin, or Spanish	ARA 201/202, CHI 201/202, FRE 201/202/203/204, GER 201/202, ITA 201/202, LAT 201/202, SPA 201/202/203/204 <i>CNU offers these languages and students will satisfy the requirement with direct equivalents.</i>
	ELEC 2XX ASL, Japanese, or Russian	ASL 201/202, JPN 201/202, RUS 201/202 <i>CNU does not offer these languages, however students can satisfy the requirement at the 200-level.</i>
<i>Mathematical Literacy (6 hours minimum)</i>	MATH 115	MTH 165
	MATH 125	MTH 155/245, BUS 216/220/221/225
	MATH 130	MTH 161+162 (together)/167
	MATH 135	MTH 261
	<b>MATH 140</b>	<b>MTH 263</b>
	<b>&gt;MATH 140</b>	<i>Refer to the VCCS/CNU Equivalent Table for higher level math equivalents which also satisfy the math literacy requirement.</i>
<i>Logical Reasoning (3 hours minimum)</i>	CPSC 110	AST 232, BUS 226, CSC 110/155, ITE 100/115/119/120/152/215, ITP 100
	CPSC 150	CSC 221, ITP 150 (3 credit course)
	<b>CPSC 150/150L</b>	<b>CSC 201/221, ITP 150</b>
	PHIL 101	PHI 115
	PHIL 205	PHI 111/112
	PHIL 207	BUS 265
<i>Economic Modeling &amp; Analysis (3 hours minimum)</i>	<b>ECON 201/202</b>	<b>ECO 201/202</b>
<b>II. Liberal Learning Areas of Inquiry (A of I) (19 hours minimum)</b>		
<i>No more than one course in the discipline of the major may be presented to satisfy the A of I requirements.</i>		
<i>No more than eight hours across the Areas of Inquiry may be taken from any single discipline to satisfy the A of I requirements.</i>		
<i>Civic &amp; Democratic Engagement (AIDE) (3 hours minimum)</i>	AMST 100	HUM 211
	POLS 101	ADJ 130, PLS 135/211
	HIST 121	HIS 121
<i>Creative Expressions (AICE) (3 hours minimum)</i>	ENGL 250	ENG 211
	FNAR 128	ART 291, DRF 202
	FNAR 201	ART 101/201
	FNAR 202	ART 102/202
	FNAR 241	ART 153
	MUSC 101	MUS 149
	MUSC 102	MUS 148/248/266
	MUSC 105	MUS 138/237/238
	MUSC 114	MUS 249
	THEA 210	CST 140/141/210/231
	THEA 232	CST 131/132
	THEA 250	CST 145

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<i>Global &amp; Multicultural Perspectives (AIGM)</i> (3 hours minimum)	ANTH 203	SOC 211
	HIST 111	HIS 111
	HIST 112	HIS 112
	PHIL 201	PHI 211
	RSTD 211	REL 230/231/237
	RSTD 270	REL 233
<i>Investigating the Natural World (AINW)</i> (7 hours minimum) <i>The seven hour minimum must include two lecture courses and one accompanying laboratory.</i>	BIOL 107/109L	BIO 102
	BIOL 108/109L	BIO 101/106/114
	BIOL 111	FOR 100, HRT 155
	BIOL 111/109L	BIO 110, FOR 135
	BIOL 113/109L	BIO 141/145, NAS 161/171
	BIOL 113	BIO 20/100, DIT 121, DNA 108, EMS 150, ENV 162, HLT 110/204/228/230, NAS 150, SUR 140/145/210/240/245/260
	BIOL 115/109L	BIO 107, ENV 121/122, FOR 105/115/265, MAR 201, NAS 215, SCT 111
	BIOL 115	ENV 101, FOR 237, HRT 205
	CHEM 103/103L	CHM 101/121
	CHEM 104/104L	CHM 102/122
	<b>CHEM 121/121L</b>	<b>CHM 111</b>
	<b>CHEM 122/122L</b>	<b>CHM 112</b>
	GEOG 211	GEO 200/220
	PHYS 141/105L	PHY 100/101/121
	PHYS 142/105L	PHY 102/122
	PHYS 144/105L	NAS 130/131
	PHYS 144	PHY 150
	PHYS 151/151L	PHY 201
	PHYS 152/152L	PHY 202
	<b>PHYS 201/201L</b>	<b>PHY 231/241</b>
<b>PHYS 202/202L</b>	<b>PHY 232/242</b>	
PSYC 201	PSY 200/201	
<i>Western Traditions (AIWT)</i> (3 hours minimum)	CLST 201	ENG 257, HUM 259
	HIST 122	HIS 122
	PHIL 202	PHI 212
	RSTD 212	REL 232
	RSTD 232	REL 246/247
<i>Other courses that earn transferable major credit for this department – for <b>both</b> degrees:</i>	<b>CPEN 214</b>	<b>CSC 205, EGR 277+EGR 278 (together)</b>
	<b>ENGR 121</b>	<b>EGR 121+122 (together), EGR 124</b>
	<b>ENGR 211</b>	<b>EGR 260/271</b>
	<b>ENGR 212</b>	<b>EGR 272</b>
	<b>ENGR 213</b>	<b>CSC 208</b>
	<b>MATH 240</b>	<b>MTH 264</b>
	<b>MATH 247</b>	<b>MTH 267</b>
<i>For Bachelor of Science degree in <b>Electrical Engineering:</b></i>	<b>ENGR 213*</b>	<b>CSC 208*</b>
	<b>MATH 250*</b>	<b>MTH 265*</b>
<i>For Bachelor of Science degree in <b>Computer Engineering:</b></i>	<b>CPSC 255</b>	<b>CSC 202 (with CNU department approval), CSC 222</b>
	<b>CPSC 270</b>	<b>CSC 223</b>

\* See Undergraduate Catalog for specific details of the requirement.