## Windward Community College

## ASSOCIATE IN SCIENCE IN NATURAL SCIENCE – Engineering (AS) 2023-24

FOUNDATION REQUIREMENTS Written Communication (FW) Required 3 credits. ENG 100 Quantitative Reasoning (FQ) The Foundation FQ requirement will be met by MATH 241 (requirement concentration course) Global & Multicultural Perspectives (FG) Required 6 credits from 2 different groups. FGA: ANTH 151; ART 175; HIST 151 FGB: ANTH 152; ART 176; GEO 102; HAW 100; HIST 152 FGC: REL 150 DIVERSIFICATION REQUIREMENTS	Course Course Course	Credit Credit Credit	Grade	Term
ENG 100 Quantitative Reasoning (FQ) The Foundation FQ requirement will be met by MATH 241 (requirement concentration course) Global & Multicultural Perspectives (FG) Required 6 credits from 2 different groups. FGA: ANTH 151; ART 175; HIST 151 FGB: ANTH 152; ART 176; GEO 102; HAW 100; HIST 152 FGC: REL 150				
Quantitative Reasoning (FQ)         The Foundation FQ requirement will be met by MATH 241 (requirement concentration course)         Global & Multicultural Perspectives (FG) Required 6 credits from 2 different groups.         FGA: ANTH 151; ART 175; HIST 151         FGB: ANTH 152; ART 176; GEO 102; HAW 100; HIST 152         FGC: REL 150				
The Foundation FQ requirement will be met by MATH 241 (requirement concentration course) Global & Multicultural Perspectives (FG) Required 6 credits from 2 different groups. FGA: ANTH 151; ART 175; HIST 151 FGB: ANTH 152; ART 176; GEO 102; HAW 100; HIST 152 FGC: REL 150			Grade	Term
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FGA: ANTH 151; ART 175; HIST 151 FGB: ANTH 152; ART 176; GEO 102; HAW 100; HIST 152 FGC: REL 150	Course		0	Ŧ
FGB: ANTH 152; ART 176; GEO 102; HAW 100; HIST 152 FGC: REL 150		Cleuit	Grade	Term
FGC: REL 150				
DIVERSIFICATION REQUIREMENTS				
Arts, Humanities, & Literature Required 3 credits	Course	Credit	Grade	Term
Arts (DA)				
ART 101, 104D, 105B, 105C, 107, 107D, 108, 111, 112, 113, 114, 115, 116, 123, 126, 131, 189, 202, 207, 208, 213, 214, 220				
223, 224, 243, 244, 251, 253, 260; <b>CM</b> 120, 126, 204C, 220, 223, 240, 242, 280, 286, 295A, 295B; <b>DNCE</b> 121, 131, 122, 132				
221, 231, 252(1)*, 270; ENG 204A, 204B, 204C, 204D, 280, HWST 130, 131, 135, 136, 222,; HUM 100, 269V(1-6)*; ICS 123,				
203; <b>JOUR</b> 200, 270, 286; <b>MUS</b> 108, 114(2)*, 121B(2)*, 121C(2)*, 121D(2)*, 121F(2)*, 121H(2)*, 121Z(2)*, 122B(2)*, 122C(2)	)^,			
122D(2)*, 122F(2)*, 122H(2)*, 122Z(2)*, 130F(2)*, 211(2)*, 221C(2)*, 222C(2)*, 231B(1)*, 231C(1)*, 231F(1)*, 231Z(1)*, 240, 220, 220, 220, 220, 220, 220, 220	<u></u>			
253, 280; <b>SP</b> 151, 251, 253; <b>THEA</b> 101, 131, 132, 133, 211, 220, 221, 222, 223, 225, 231, 232, 233, 240, 251(1)*, 252(1)*, 26	оU,			
280 *Any combination that totals 3 credits Humanities (DH)				
ART 269V(1-6)*; CM 255; HWST 107, 110, 115, 140, 142, 215, 217, 253, 270, 273, 275, 275L(1)*, 285; HIST 230, 241, 242,				
260, 270, 281, 282, 284, 285; LING 102; MUS 106, 107, 166, 177, 277; PHIL 100, 101, 102, 211, 213; REL 151, 201, 202, 20				
200, 207, 202, 204, 203, 204, 203, 207, 203, 100, 107, 100, 177, 277, PHIL 100, 101, 102, 211, 213, KEL 131, 201, 202, 20 206, 207, 212, 217; THEA 177	Ο,			
Literature (DL) ENG 271, 272; HWST 263				
SOCIAL SCIENCES (DS) Required 3 credits	Course	Credit	Grade	Term
ANTH 175, 175L(1), 210; BOT 105; ECON 130, 131, 220; GEO 151, 252; HWST 255, HDFS 230; JOUR 150; PACS 108; PO		orealt	Orade	TCIIII
110, 120, 130, 180, 243; <b>PSY</b> 100, 170, 202, 212, 224, 240, 241, 250, 251, 253, 255, 260, 270; <b>SOC</b> 100, 214, 218, 231, 251;				
SOCS 225; SW 200; SP 261; WGSS 151, 200, 202	,			
Concentration Requirements Engineering Emphasis 33-34 credits	Course	Credit	Grade	Term
CHEM 161 General Chemistry I (3)				
CHEM 161L General Chemistry Laboratory I (1)				
CHEM 162 General Chemistry II (3)				
MATH 241 Calculus I (4)				
MATH 242 Calculus II (4)		1		
MATH 243 Calculus III (3)				
MATH 244 Calculus IV (3)				
PHYS 170 General Physics I (4)				
PHYS 170L General Physics I Laboratory (1)				
PHYS 272 General Physics II (3)				
PHYS 272L General Physics II Laboratory (1)				
CE 270 Applied Mechanics I (3)				
or EE 160 Programming for Engineers (4)				
or <b>EE</b> 211 Basic Circuit Analysis I (4)				
or PHYS 274 Introduction to Modern Physics (3)		0	0	-
or <b>PHYS</b> 274 Introduction to Modern Physics (3) or <b>SCI</b> 295EN Introduction to STEM Research in Engineering (1-3)	0	Credit	Grade	Term
or PHYS 274 Introduction to Modern Physics (3) or SCI 295EN Introduction to STEM Research in Engineering (1-3) ELECTIVES 12 credits numbered 100 or above to achieve a total of 60 credits	Course	+		
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or PHYS 274 Introduction to Modern Physics (3) or SCI 295EN Introduction to STEM Research in Engineering (1-3) ELECTIVES 12 credits numbered 100 or above to achieve a total of 60 credits Graduation Requirements	Course			
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