

Articulation Agreement - Course Equivalencies		
Broome Community College		Buffalo State
Engineering Science A.S.		Electrical Engineering (Electronics) B.S.
Course Dept & No.	Cr hrs	Course Dept & No.
First Semester		
ENG 110 College Writing I	3	CWP 101*
CHM 145 - General Chemistry I	4	CHE 111
CST 127 - Introduction to C++ for Engineers	3	CIS 151
EGR 100 L Engineering Orientation: Student Success I	0.5	ENT 1XX
EGR 150 - Engineering Design I with Graphics	2	TEC 1XX
MAT 181 - Calculus I	4	MAT 161
-	16.5	
Second Semester		
EGR 281 (Engineering Elective)	3	ENT 301
Social Sciences Electives	3	Gen Ed/IF
EGR 101 Engineering Orient: Student Success II	0.5	ENT 1XX
EGR 151 - Engineering Design II	2	TEC 101 (+EGR 150)
MAT 182 - Calculus II	4	MAT 162
PHY 181 - Physics for Engineers & Scientists I	4	PHY 111
-	16.5	
Third Semester		
EGR 282 (Engineering Elective II)		ENT 302
PED Electives: 1	1	Elective
EGR 200L Engineering Orient: Student Success III	0.5	ENT 1XX
EGR 287 L - Engineering Design III	1	ENT 1XX
EGR 289 W - Microprocessors	4	ENT 1XX
MAT 282 - Differential Equations w/Linear Algebra	4	ENT 300
PHY 182 - Physics for Engineers & Scientists II	4	PHY 112
-	14.5	
Fourth Semester		
Social Sciences Electives Writing Intensive	3	Gen Ed/IF
Engineering Elective IV	3	Elective
EGR 285 (Engineering Elective V)	3	ENT 331
EGR 201L Engineering Orient: Student Success IV	0.5	ENT 1XX
EGR 288 L - Engineering Design IV	1	TEC 1XX
ENG 111 - College Writing II	3	CWP 102*
MAT 281 - Calculus III	4	MAT 263
-	17.5	

*A grade of C or better is required for transfer.

Buffalo State

Remaining courses:

Major:

ENT 341 Electronics

ENT 342 Networks

ENT 351 Analog Electronics

ENT 352 Digital Electronics

ENT 371 Electric Machines

ENT 431 Digital Systems I

ENT 432 Microprocessors

ENT 441 Communication Transmiss Tech

ENT 442 RF & Microwave Communication

ENT 461 Control Systems I

ENT 462 Control Systems II

ENT 465 Electrical Design

Electives:

CHE 102 or CHE 112

MAT 124

SPC 205

Any Gen Ed/IF (Intellectual Foundations) not met

<http://catalog.buffalostate.edu/undergraduate/electrical-engineering-technology-electronics-bs.htm>

Articulation Agreement - Course Equivalencies		
Broome Community College		Buffalo State
Engineering Science A.S.		Electrical Engineering (Smart Grid) B.S.
Course Dept & No.	Cr hrs	Course Dept & No.
First Semester		
ENG 110 College Writing I	3	CWP 101*
CHM 145 - General Chemistry I	4	CHE 111
CST 127 - Introduction to C++ for Engineers	3	CIS 151
EGR 100 L Engineering Orientation: Student Success I	0.5	ENT 1XX
EGR 150 - Engineering Design I with Graphics	2	TEC 1XX
MAT 181 - Calculus I	<u>4</u>	MAT 161
-	16.5	
Second Semester		
EGR 281 (Engineering Elective)	3	ENT 301
Social Sciences Electives	3	Gen Ed/IF
EGR 101 Engineering Orient: Student Success II	0.5	ENT 1XX
EGR 151 - Engineering Design II	2	TEC 101 (+EGR 150)
MAT 182 - Calculus II	4	MAT 162
PHY 181 - Physics for Engineers & Scientists I	<u>4</u>	PHY 111
-	16.5	
Third Semester		
EGR 282 (Engineering Elective II)		ENT 302
PED Electives: 1	1	Elective
EGR 200L Engineering Orient: Student Success III	0.5	ENT 1XX
EGR 287 L - Engineering Design III	1	ENT 1XX
EGR 289 W - Microprocessors	4	ENT 1XX
MAT 282 - Differential Equations w/Linear Algebra	4	ENT 300
PHY 182 - Physics for Engineers & Scientists II	<u>4</u>	PHY 112
-	14.5	
Fourth Semester		
Social Sciences Electives Writing Intensive	3	Gen Ed/IF
Engineering Elective IV	3	Elective
EGR 285 (Engineering Elective V)	3	ENT 331
EGR 201L Engineering Orient: Student Success III	0.5	ENT 1XX
EGR 288 L - Engineering Design IV	1	TEC 1XX
ENG 111 - College Writing II	3	CWP 102*
MAT 281 - Calculus III	4	MAT 263
-	17.5	

*A grade of C or better is required for transfer.

Buffalo State

Remaining courses:

Major:

ENT 341 Electronics

ENT 342 Networks

ENT 371 Electric Machines

ENT 431 Digital Systems I

ENT 432 Microprocessors

ENT 445 Power Electronics

ENT 461 Control Systems I

ENT 462 Control Systems II

ENT 465 Electrical Design

ENT 471 Power Systems I

ENT 472 Power Systems II

Electives:

CHE 102 or CHE 112

MAT 124

SPC 205

Any Gen Ed/IF (Intellectual Foundations) not met

<http://catalog.buffalostate.edu/undergraduate/electrical-engineering-technology-smart-grid-bs.htm>