

Articulation Agreement - Course Equivalencies		
Broome Community College		Buffalo State
Engineering Science A.S.		Mechanical Engineering B.S.
Course Dept & No.	Cr hrs	Course Dept & No.
<b>First Semester</b>		
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	
<b>Second Semester</b>		
EGR 281 (Engineering Elective)	3	ENT 301
Social Sciences Electives	3	Gen Ed/IF
EGR 101 Engineering Orientation: 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	
<b>Third Semester</b>		
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	
<b>Fourth Semester</b>		
EGR 284 (Engineering Elective III)	3	TEC 311
EGR 283 (Engineering Elective IV)	3	ENT 401
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	<u>4</u>	MAT 263
	17.5	

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

\*\*Foreign Language fulfilled at Buffalo State if 2 years of the same language successfully completed in high school

**Buffalo State**

Remaining courses:

Major:

ENT 102 Intro Equat Solve

ENT 202 Intro Engineering Econ

ENT 303 Kinematics

ENT 312 Fluid Mechanics

ENT 314 Solid Modeling

ENT 335 Industrial Electronics

OR

ENT 371 Electric Machines

ENT 402 Shock & Vibration Analysis

ENT 411 Heat Transfer

ENT 421 Machine Design I

ENT 422 Machine Design II

TEC 201 Materials Processing

TEC 311 Material Science & Testing

Electives:

CHE 102 or CHE 112

MAT 124 or MAT 311

SPC 205

**Any Gen Ed/IF (Intellectual Foundations) not met**

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