

| 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>