

| Articulation Agreement - Course Equivalencies | | |
|--|----------|-------------------|
| Broome Community College | | Buffalo State |
| Liberal Arts - General Studies A.S. Teacher Education Math | | Physics B.A. |
| Course Dept & No. | Cr hrs | Course Dept & No. |
| First Semester | | |
| Foreign Language | 3 | Foreign Language |
| COL 105 - Academic Planning Seminar | 1 | UNC 1XX |
| ENG 110 - College Writing I | 3 | CWP 101* |
| CHM 145 - General Chemistry I | 4 | CHE 111 |
| MAT 181 Calculus I | 4 | MAT 161 |
| PSY 110 - General Psychology | <u>3</u> | PSY 101 |
| | 18 | |
| Second Semester | | |
| ENG 111 - College Writing II | 3 | CWP 102* |
| Foreign Language | 3 | Foreign Language |
| CHM 146 - General Chemistry II | 4 | CHE 112 |
| MAT 182 Calculus II | 4 | MAT 162 |
| HIS 130 - United States History I | | HIS106 |
| Or | | |
| HIS 131 - United States History II | 3 | HIS107 |
| Physical Education (Cardiovascular) | <u>1</u> | Elective |
| | 17 | |
| Third Semester | | |
| PHI 203 (Humanities) | 3 | PHI 1XX |
| PHY 181 Physics for Engineers & Scientists I | 4 | PHY 111 |
| HIS 100 - The Rise of the West: 1500-Present | 3 | HIS 115 |
| EDU 111 - Foundations of American Education | 3 | EDU1XX |
| Art, Music, or Theater | 3 | Gen Ed/IF |
| | 16 | |
| Fourth Semester | | |
| PHY 182 Physics for Engineers & Scientists II | 4 | PHY 112 |
| ENG 220 - Communicating About Ideas and Values | 3 | ENG 1XX |
| Social Science or Civic Ed | 3 | Elective |
| PSY 212 - Adolescent Development | 3 | PSY1XX |
| MAT 281 Calculus III | <u>4</u> | MAT 263 |
| | 17 | |

*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:

PHY 213 University Physics III

PHY 305 Modern Physics I

PHY 320 Intro to Theoretical Physics

Electives in Physics (13 cr)

Required Credit Hours Outside the Major

MAT 163 Tech to explore Calc I

MAT 164 Tech to explore Calc II

MAT 264 Tech to explore Calc III

Any All College electives not met

Intellectual Foundations (Gen Ed/IF) not met

<http://catalog.buffalostate.edu/undergraduate/physics-ba.htm>

Students wishing to teach Physics, can complete this program and pursue the Master in Science Education.

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Remaining courses:

Major:

PHY 213 University Physics III

PHY 305 Modern Physics I

PHY 310 Computational Physics Lab (2)

PHY 320 Intro to Theoretical Physics

Additional Required courses (total 22 cr hrs)

Required Credit Hours Outside the Major

MAT 163 Tech to explore Calc I

MAT 164 Tech to explore Calc II

MAT 264 Tech to explore Calc III

MAT 315 Differential Equations

Any All College electives not met

Intellectual Foundations (Gen Ed/IF) not met

<http://catalog.buffalostate.edu/undergraduate/physics-bs.htm>

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