

HOSTOS COMMUNITY COLLEGE

MAJORS

MATHEMATICS

The Associate in Science degree in Mathematics allow students to pursue a Baccalaureate degree or careers in Mathematics, Mathematics in Education and Statistics. The curriculum emphasizes the calculus sequence, linear algebra, and differential equations which are required for further study in mathematics and engineering.

Associate in Science Degree in Mathematics

Liberal Arts and Sciences Credits

| | | |
|--|----------------------------------|--------------|
| English 110 | Expository Writing | 3 |
| English 111 | Literature and Composition | 3 |
| Biology 210 | General Biology I | 4 |
| AND | | |
| Biology 220..... | General Biology II | 4 |
| OR | | |
| Chemistry 210 | General Chemistry I..... | 4 |
| AND | | |
| Chemistry 220..... | General Chemistry II | 4 |
| OR | | |
| Physics 210 | General Physics I | 4 |
| AND | | |
| Physics 220 | General Physics II..... | 4 |
| Psychology 101..... | General Psychology..... | 3 |
| OR | | |
| Sociology 101 | Introduction to Sociology | 3 |
| History..... | | 3 |
| Ethnic Studies BLS OR LAC OR Foreign Language†..... | | 3-6 |
| Humanities Music History or Art History or Speech..... | | 3 |
| Total | | 26-29 |

Mathematics Sequence

| | | |
|----------------------------------|--|----------------|
| Mat 210 | Calculus I..... | 4* |
| Mat 220 | Calculus II..... | 4* |
| Mat 310 | Calculus III | 4* |
| Mat 320 | Linear Algebra with Vector Analysis..... | 3 |
| Mat 360 | Ordinary Differential Equations | 3 |
| Total | | 18 |
| Free Electives..... | | 13-16** |
| Total Degree Credits..... | | 60 |

*Routine changes

**Students pursuing Middle and High School certification in Education at Lehman College

should complete the following courses: Education 101, 117, 130 and 140.

†Spanish, French or Italian²³⁹

Sample Semester Sequence

Semester I Credits

| | | |
|-----------------------|--------------------------|-----------|
| ENG 110 | Expository Writing | 3 |
| MAT 210 | Calculus I..... | 4* |
| Natural Sciences..... | | 4 |
| Humanities | | 3 |
| Total | | 14 |

Semester II Credits

| | | |
|-----------------------|----------------------------------|----|
| ENG 111 | Literature and Composition | 3 |
| MAT 220..... | Calculus II..... | 4* |
| Natural Sciences..... | | 4 |
| Psychology 101..... | General Psychology..... | 3 |

OR

| | | |
|---------------------|---------------------------------|-----------|
| Sociology 101 | Introduction to Sociology | 3 |
| Total | | 14 |

Semester III Credits

| | | |
|--|--------------------|-----------|
| MAT 310..... | Calculus III | 4* |
| History..... | | 3 |
| Ethnic Studies- BLS or LAC or Foreign Language†..... | | 3-6 |
| Free Electives..... | | 3-6 |
| Total | | 16 |

Semester IV Credits

| | | |
|---------------------|---|-----------|
| MAT 320 | Linear Algebra with Vector Analysis | 3 |
| MAT 360 | Ordinary Differential Equations..... | 3* |
| Free Electives..... | | 10 |
| Total | | 16 |