Associate of Science to Bachelor of Arts in Mathematics

The following is presented as an articulation agreement between City Colleges of Chicago (CCC) and Governors State University (GSU) for the Mathematics degree program based on the current catalogs of both schools. The student would receive an Associate in Science (AS) degree from one of the CCC and a Bachelors of Arts (BA) degree in Mathematics from GSU.

I. TRANSFERABLE GENERAL EDUCATION CORE CURRICULUM: (40-41 Hours)

Communications (9 hours)
- ENG 101 Composition (3)
- ENG 102 Composition (3)
- SPEECH 101 Fundamentals of Speech Communications (3)

Humanities and Fine Arts (6 hours)
- Humanities Course (3)*
- Fine Arts Course (3)*

Mathematics (10 hours)
- MATH 207 Calculus and Analytic Geometry I (5) (Meets MATH 2290)
- MATH 208 Calculus and Analytic Geometry II (5) (Meets MATH 2292)

Physical and Life Sciences (9-10 hours)
- BIOLOGY 121 Biology I (5) (Meets BIOL 1500/1501)
- PHYSICS 221 or 231 or 235 Mechanics, Waves and Heat or General Physics I or Engineering Physics I (4-5) (Meets PHYS 2171/2172)**

Social and Behavioral Sciences (6 hours)
Select three courses in at least two different disciplines
- Social and Behavioral Science Courses (6)*

II. ADDITIONAL COLLEGE REQUIREMENTS (0)*

Human Diversity Requirement (0) (This requirement can be fulfilled within the humanities or social behavioral sciences category by selecting a course with an IAI code ending in N or D.)

III. AREA OF CONCENTRATION/MAJOR FIELD (19-20 Hours)

- MATH 209 Calculus and Analytic Geometry III (5) (Meets MATH 2294)
- MATH 146 Discrete Mathematics (4) (Meets MATH 2150)
- MATH 210 Differential Equations (3) (Meets MATH 2271)
- MATH 212 Linear Algebra (3) (Meets MATH 2449)
- PHYSICS 222 or 232 or 236 Electricity, Light and Modern Physics or General Physics II or Engineering Physics II (4-5) (Meets PHYS 2181/2182)**

REQUIRED A.S. DEGREE PROGRAM TOTAL: 60 Hours

* Refer to the CCC AA/AS guidelines for a list of course choices in Section I.

Note: Students can complete up to 80 hours at CCC by taking additional electives reducing the GSU Electives.

**PHYSICS 235/236 sequence preferred for BA in Mathematics transfers. PHYSICS 231/232 or PHYSICS 221/222 will be accepted.
IV. TO BE COMPLETED AT CCC OR GSU (9-10 Hours)
   Humanities or Fine Arts Course (3)*
   Social and Behavioral Science Course (3)*
   Computer Science Selective (3-4) (CCC CIS 101 or CIS 103 OR GSU CPSC 2005, 3120, 3142 or 3143)

*Refer to CCC or GSU catalog for list of course options available in section IV.

V. TO BE COMPLETED AT GSU (50-51 Hours)
   Required Courses (24 hours)
   - MATH 4133 - Number Theory (3)
   - MATH 4171 - History of Mathematics (3)
   - MATH 4241 - Analysis I: Real Variables (3)
   - MATH 4243 - Analysis II: Complex Variables (3)
   - MATH 4337 - Modern Geometry (3)
   - MATH 4451 - Modern Algebra (3)
   - MATH 4557 - Probability (3)
   - MATH 4637 - Mathematics Laboratory (3)

Selective Hours (6 hours)
Select 6 hours (2 courses) from the following upper-division mathematics and statistics courses:
   - MATH 4229 - Advanced Calculus (3)
   - MATH 4373 - Topology (3)
   - STAT 4219 - Statistical Methods (3)
   - Or other mathematics courses approved by the academic advisor.

Electives (20-21 hours)

Minimum Required for the BA in Mathematics: 120 Hours

For Additional Information:
Governors State University
Office of Admissions
(708) 534-4490
TransferGuide@govst.edu
College of Arts and Sciences website at
www.govst.edu/cas

City Colleges of Chicago
Counseling or Transfer Center
Daley College
(773) 838-7935 or 838-7980
Harold Washington College
(312) 553-5778
Kennedy-King College
(773) 602-5285
Malcolm X College
(312) 850-7464
Olive-Harvey College
(773) 291-6251
Truman College
(773) 907-4735
Wright College
(773) 481-8227

GSU Transfer Guide 1.31.2017