

Associate of Arts or Science to Bachelor of Arts in Mathematics With a Concentration in Actuarial Science

The following is presented as an articulation agreement between Prairie State College (PSC) and Governors State University (GSU) for the Mathematics degree program based on the current catalogs of both schools. The student would receive an Associate of Arts or Science (AA/AS) degree from PSC and Bachelor of Arts (BA) degree in Mathematics with a concentration in Actuarial Science from GSU.

I. TRANSFERABLE GENERAL EDUCATION CORE CURRICULUM: (50 Hours)

(Refer to the AA/AS Degree Guidelines for a list of courses in Section I.)

Area A: Communications (9 hours)

- ENG 101 - Composition I (3)
- ENG 102 - Composition II (3)
- COMM 101 - Principles of Communication (3)

Area B: Humanities and Fine Arts (9 hours)

- Humanities Course (3)*
- Fine Arts Course (3)*
- Humanities or Fine Arts Course (3)*

Area C: Mathematics (15 hours)

- MATH 171 - Calculus with Analytic Geometry I (5) (Meets MATH 2290)
- MATH 172 - Calculus with Analytic Geometry II (5) (Meets MATH 2292)
- MATH 173 - Calculus with Analytic Geometry III (5) (Meets MATH 2294)

Area D: Physical and Life Sciences (8 hours)

- BIOL 100 **or** 112 - General **or** Organismal Biology (4) (Meets BIOL 1500/1501)
- PHYSI 120 **or** 210[^] - College **or** University Physics I (4) (Meets PHYS 2171/2172)

Area E: Social and Behavioral Sciences (9 hours)

- ECON 201 - Macroeconomics (3) (Meets ECON 2302)
- ECON 202 - Microeconomics (3) (Meets ECON 2302)
- Social and Behavioral Science Course – non Economics (3)*

II. AREA OF CONCENTRATION/MAJOR FIELD (13 Hours)

- MATH 210 - Discrete Math (3) (Meets MATH 2150)
- MATH 216 - Differential Equations (3) (Meets MATH 2271)
- MATH 220 - Linear Algebra (3) (Meets MATH 2249)
- PHYSI 130 **or** 220[^] - College **or** University Physics II (4) (Meets PHYS 2181/2182)

REQUIRED A.A./A.S. DEGREE PROGRAM TOTAL: 62 Hours (63 hours as written)

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

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

[^]PHYSI 210/220 sequence preferred for students intending on pursuing a BA in Mathematics at GSU.

III. TO BE COMPLETED AT PSC OR GSU (3 Hours)

- PSC ITAPP 101 - Introduction to Computers (3) **OR**
GSU CPSC 2005, 3120, 3142 or 3143 - Computer Science selective (3)

IV. TO BE COMPLETED AT GSU (54 Hours)

Required Courses (27 hours)

- MATH 4133 - Number Theory (3)
MATH 4229 - Advanced Calculus (3)
MATH 4241 - Analysis I: Real Variables (3)
MATH 4250 - Mathematical Statistics (3)
MATH 4451 - Modern Algebra (3)
MATH 4557 - Probability (3)
MATH 4637 - Mathematics Laboratory (3)
MATH 4970 - Capstone Internship (3)
STAT 4219 - Statistical Methods (3)

Concentration in Actuarial Science (18 Hours)

- ACCT 2110 - Financial Accounting (3)
ECON 4101 - Econometrics I (3)
FIN 3110 - Principles of Financial Management (3)
FIN 3501 - Investments (3)
FIN 4501 - Financial Options and Futures (3)
FIN 4502 - Advanced Investments (3)

Electives (9 hours)

Minimum Required for the BA in Mathematics with Actuarial Science: 120 Hours

For additional information:
Governors State University
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(708) 534-4490
TransferGuide@govst.edu

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