

## **Associate of Arts or Science to Bachelor of Arts in Mathematics – Actuarial Science**

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

### **I. TRANSFERABLE GENERAL EDUCATION CORE CURRICULUM: (47 Hours)**

#### **Communications (9 hours)**

- ENG 101 - Rhetoric I (3)
- ENG 102 - Rhetoric II (3)
- SPE 101 - Principles of Public Speaking (3)

#### **Humanities and Fine Arts (9 hours)**

One course should meet the cultural diversity requirement. Requirement can also be met by a social science course.

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

#### **Mathematics (10 hours)**

- MAT 201 - Calculus I (5) (Meets MATH 2290)
- MAT 202 - Calculus II (5) (Meets MATH 2292)

#### **Physical and Life Sciences (10 hours)**

- Life Science Course (5)\* (BIO 110 recommended)
- PHY 101 - General Physics I (5) (Meets PHYS 2171/2172)

#### **Social and Behavioral Sciences (9 hours)**

- ECO 101 - Principles of Economics I (3) (Meets ECON 2302)
- ECO 102 - Principles of Economics II (3) (Meets ECON 2301)
- Social and Behavioral Science Course – Non-Economics (3)\*

### **II. HEALTH TECHNOLOGY AND COLLEGE READINESS (2 hours)**

Refer to the MC AA/AS guidelines for a list of course choices.

### **III. AREA OF CONCENTRATION/MAJOR FIELD (15 Hours)**

- BUS 101 - Financial Accounting (3) (Meets ACCT 2110)
- MAT 203 - Calculus III (4) (Meets MATH 2294)
- MAT 215 - Differential Equations (3) (Meets MATH 2271)
- PHY 102 - General Physics II (5) (Meets PHYS 2181/2182)

**REQUIRED A.A./A.S. DEGREE PROGRAM TOTAL: 62 Hours** (64 hours as written)

**\* Refer to the MC AA/AS guidelines for a list of course choices in Sections I - II.**

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

## IV. TO BE COMPLETED AT MC OR GSU (3-4 Hours)

Computer Science Selective (3-4) (MC CPS 111, CPS 200 or CPS 210 **OR** GSU CPSC 2005, CPSC 3120, CPSC 3142 or CPSC 3143)

## V. TO BE COMPLETED AT GSU (52-53 Hours)

### Core Courses (33-36 hours)

MATH 2449	- Linear Algebra (3)
MATH 3099	- Junior Seminar: Discrete Mathematics (3)
MATH 4229	- Advanced Calculus (3)
MATH 4241	- Analysis I: Real Variables (3)
MATH 4250	- Applied Statistics – Time Series (3)
MATH 4350	- Foundations of Actuarial Science (4)
MATH 4450	- Theory of Interest (4)
MATH 4557	- Probability (3)
MATH 4637	- Mathematics Laboratory (3)
MATH 4800	- Mathematics Internship (1-4)
STAT 4219	- Statistical Methods (3)

### Concentration Courses (15 hours)

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 (1-5 hours)

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

### For Additional Information:

**Governors State University**

**Office of Admission**

**(708) 534-4490**

[Email TransferGuide@govst.edu](mailto:EmailTransferGuide@govst.edu)

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**Morton College**

**Transfer Center**

**(708) 656-8000 Ext 245**

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