

## **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 Joliet Junior College (JJC) 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 JJC and a Bachelor of Arts (BA) degree in Mathematics with Actuarial Science from GSU.

### **I. TRANSFERABLE GENERAL EDUCATION CORE CURRICULUM: (40 Hours)**

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

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

- ENG 101 - Rhetoric (3)
- ENG 102 - Rhetoric (3)
- SPCH 101 - Principles of Speech (3)

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

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

#### **Mathematics (5 hours)**

- MATH 170 - Calculus with Analytical Geometry I (5) (Meets MATH 2290)

#### **Physical and Life Sciences (8 hours)**

- Life Science Course (3)\*
- PHYS 201 - Engineering Physics I (5) (Meets PHYS 2171/2172)

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

- ECON 103 - Principles of Economics I (3) (Meets ECON 2302)
- ECON 104 - Principles of Economics II (3) (Meets ECON 2301)
- Social and Behavioral Science Course - Non-Economics (3)\*

### **II. ELECTIVES (24 Hour)**

- ACCY 101 - Accounting I (4) (meets ACCT 2110)
- MATH 171 - Calculus with Analytical Geometry II (4) (Meets MATH 2292)
- MATH 172 - Calculus with Analytical Geometry III (4) (Meets MATH 2294)
- MATH 210 - Linear Algebra (3) (Meets MATH 2449)
- MATH 220 - Differential Equations and Orthogonal Functions (3)  
(Meets MATH 2271)
- PHYS 202 - Engineering Physics II (5) (Meets PHYS 2181/2182)
- Free Elective (1)\*

### **REQUIRED A.A./A.S. DEGREE PROGRAM TOTAL: 64 Hours**

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

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

### III. TO BE COMPLETED AT GSU (56 Hours)

#### Core Courses (30-33 hours)

- 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 - 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 (8-11 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**

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

[www.govst.edu/cas](http://www.govst.edu/cas)

**Joliet Junior College**

**Career and Transfer Center**

**(815) 280-2449**

[Visit Joliet Junior College at www.jjc.edu](http://www.jjc.edu)

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