



## Associate of Arts or Science to Bachelor of Arts in Mathematics with Actuarial Science

The following is presented as an articulation agreement between Moraine Valley Community College (MVCC) 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 in Arts or Science (AA/AS) degree from MVCC and Bachelors of Arts (BA) degree in Mathematics – Actuarial Science from GSU.

### I. TRANSFERABLE GENERAL EDUCATION CORE CURRICULUM: (49 Hours) Communications (9 hours)

- COM 101 - Composition I (3)
- COM 102 - Composition II (3)
- COM 103 - Speech Fundamentals (3)

### Humanities and Fine Arts (9 hours)

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

### Mathematics (14 hours)

- MTH 150 - Calculus I/Analytic Geometry (5) (Meets MATH 2290)
- MTH 151 - Calculus II/Analytic Geometry (5) (meets MATH 2292)
- MTH 152 - Calculus III/Analytic Geometry (4) (meets MATH 2294)

### Physical and Life Sciences (8 hours)

- Life Science Course (4)\*
- PHY 203 - Mechanics (4) (Meets PHYS 2171/2172)

### Social and Behavioral Sciences (9 hours)

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

### II. ADDITIONAL MVCC DEGREE REQUIREMENT (3 Hours)

Select three credit hours from Humanities and Fine Arts or Social/Behavioral Sciences listed above or one of the following ARB 101, 102, or 201; FRE 101,102, or 201; or SPA 101, 102, or 201.

### III. AREA OF CONCENTRATION/MAJOR FIELD (13 Hours)

- IMS 115 - Intro to PC Applications (3) (Comp Sci Selective at GSU)
- MTH 201 - Differential Equations (3) (meets MATH 2271)
- MTH 210 - Linear Algebra (3) (meets MATH 2449)
- PHY 204 - Heat, Electricity and Magnetism (4) (meets PHYS 2181/2182)

### REQUIRED A.A./A.S. DEGREE PROGRAM TOTAL: 62 Hours (65 hours as written)

\* Refer to the MVCC AA/AS guidelines for a list of course choices in Section I-III

Note: Students can complete up to 80 hours at MVCC by taking course from section IV or additional electives reducing the GSU Electives.

# Transfer Guide



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

Financial Accounting (3-4) (MVCC BUS 142 or GSU ACCT 2110)

## V. TO BE COMPLETE AT GSU (51-52 Hours)

### Core Courses (27 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 (3)
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 (9-10 hours)

## Required for the BA in Mathematics w/Concentration in Actuarial Science: 120 Hours

**Governors State University**  
GSU Jaguar Transfer Evaluator at  
<https://govst.transfer.degree/>

**Moraine Valley Community College**  
Academic Advising  
(708) 974-5753

Visit the College of Arts and Sciences  
at [www.govst.edu/cas](http://www.govst.edu/cas)

Visit Moraine Valley Community  
College at [www.morainevalley.edu](http://www.morainevalley.edu)

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