

## Associate of Arts to Bachelor of Arts in Mathematics

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 (AA) degree from JJC and a Bachelor of Arts (BA) degree in Mathematics from GSU.

### I. TRANSFERABLE GENERAL EDUCATION CORE CURRICULUM: (42 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)

- Humanities course (3)\*
- Fine Arts 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 (9-10 hours)

- Life Science Course with Lab (4-5)\*
- PHYS 201 - Engineering Physics I (5) (Meets PHYS 2171/2172)

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

- Social and Behavioral Science Courses from at least two disciplines (9)\*

### II. AREA OF CONCENTRATION/MAJOR FIELD (19 hours)

- CIS 122 - Computer Information Systems (3) (Meets Computer Science Selective)
- 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)
- PHYS 202 - Engineering Physics II (5) (Meets PHYS 2181/2182)
- Free Electives (3)\*

### REQUIRED A.A. 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.

# Transfer Guide



## III. TO BE COMPLETED AT GSU (56 Hours) Required Courses (15 hours)

MATH 3099	- Junior Seminar: Discrete Mathematics (3)
MATH 4133	- Number Theory (3)
MATH 4241	- Analysis I: Real Variables (3)
MATH 4451	- Modern Algebra (3)
MATH 4993	- Mathematics Senior Capstone (3)

### Required Course Category Selective Hours (9 hours)

Select **one course from each** of the following categories.

<b>Category 1:</b> MATH 4250	- Applied Statistics – Time Series (3)
MATH 4557	- Probability (3)
STAT 4219	- Statistical Methods (3)

<b>Category 2:</b> MATH 4229	- Advanced Calculus (3)
MATH 4243	- Analysis II: Complex Variable (3)

<b>Category 3:</b> MATH 4337	- Modern Geometry (3)
MATH 4373	- Topology (3)

### Mathematics Selectives (15-17 hours)

See GSU catalog or advisor for course options.

### Electives (15-17 hours)

0-4 hours required to be completed at the 3000+ level in order to complete the minimum of 40 upper division hours.

## Minimum Required for the BA in Mathematics: 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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