

# MS in Systems Science



## About Binghamton University

*Binghamton University-SUNY is a public institution that was founded in 1946. It has a total undergraduate enrollment of 13,728, its setting is suburban, and the campus size is 930 acres. The university is located in Vestal, N.Y., a suburb of Binghamton. The campus includes a nature preserve, complete with a forest and pond where students can hike, bike and run around.*



# MS in Systems Science

## About PSGIAS

PSG Institute of Advanced Studies was set up by PSG & Sons' charities in 2006 and offers International Education through Credit Transfer System. Both Under Graduate and Post Graduate courses are offered in Engineering, business management and International Business.

## Program Overview

This is a 2 years program with 0.5 years / 1 semester of study at PSGIAS and 1.5 years / 3 semesters of study at Binghamton University

The MS in systems science emphasizes the complementary use of mathematical, computational and heuristic approaches to solve systems problems. Research areas include fuzzy logic, data analysis and knowledge discovery, uncertainty theories, generalized information theory, soft computing, intelligent control and robotics, decision making and complex systems.

## Why Studying Systems Science at Binghamton?

1. Internationally recognized program with long history of systems research
2. World-class faculty
3. Academic atmosphere that encourages interdisciplinary research
4. Wide variety of professional / academic career options after graduation.

## Value Proposition of Systems Science

- Highly unique environment that allows for interdisciplinary coursework and research
- Ideal gateway to STEM careers for non-engineering students
- Data scientist, analyst, engineer, etc.
- Computational, quantitative professions

# Systems Science

## Topics covered

Core:

Computational Tools

Introduction to Systems Science

Applied Probability and Statistics

Collective Dynamics of Complex Systems

Modeling and Simulation

## Sample Electives:

Applied Soft Computing

Fuzzy Sets, Fuzzy Logic and Fuzzy Systems

Foundations of Neural Networks

Advanced Topics in Network Science

## Job Opportunities

Alumni transition easily into positions in academia and careers in industry. Graduates have been placed in companies such as IBM, Alta Devices and BAE Systems, and institutions such as the Mayo Clinic, General Electric Global Research and Tennessee Technological University.

## Eligibility

Graduates in any field of Arts, Science or Engineering with a CGPA of more than 7.5 are eligible to apply.





## **Selection Process**

Applicants with bright academic credential may be given direct admission. Other short listed candidates will be called for interview / entrance test. Admitted candidates must get fluency in English Language and clear TOEFL with a test score of more than 80 / 120 before travelling to Binghamton University.

## **Accommodation & Student Safety**

Both on campus and off campus accommodations are available as per the students choice. The safety of the students and the entire campus community is of the highest priority at Binghamton. The safety efforts touch all facets of our students daily lives, whether in a residence hall, classroom, dining facility, office or out and about on campus.

## **Student life & learning**

The University offers many student organization clubs that one can be a part of their study and stay @ Binghamton. The University gives the students opportunity to live and learn in one of the learning communities with peers who share the same passions and goals. Students who live in one of our learning communities take classes and participate in activities on and off campus centered on that theme

[www.binghamton.edu](http://www.binghamton.edu)

