

The background features a collection of abstract, colorful geometric shapes. In the top left, there is a large pink circle. To its right, a small yellow circle is positioned. On the right side, a large purple circle is partially visible, with a green arc above it and a pink arc below it. At the bottom, there are several overlapping shapes in shades of blue, red, and pink, including a large pink circle and a smaller red circle. The overall aesthetic is modern and vibrant.

# **Computer Science Minor Advising**

Marlee Alvino

The background features several large, overlapping organic shapes in various colors: a large orange shape in the top left, a blue shape in the top right, a pink shape on the left, a purple shape in the bottom left, and a blue shape in the bottom left. A small pink sphere and a green curved line are also visible near the center-left.

**01**

**GUEST  
SPEAKER**



# Gabriella Spina

Senior, double majoring in International  
Affairs and Computer Science



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The background features several large, overlapping, semi-transparent shapes in various colors: a blue circle in the top-left, a red and orange shape in the top-right, a purple shape in the bottom-right, and a pink shape on the right edge. There are also smaller, more complex shapes in blue, purple, and pink scattered throughout.

**02**

**FOCUS  
AREAS**

# Focus Areas

## Artificial Intelligence & Machine Learning

- Machine Learning
- Neural Networks & Deep Learning
- Artificial Intelligence Algorithms

## Operating & Distributed Systems

- Systems Programming
- Operating Systems
- Computer Architecture
- Real-Time & Embedded Systems

## Algorithms & Theory

- Algorithms
- Foundations of Computing
- Continuous Algorithms
- Game Theory

## Graphics

- Design of Computer Animation
- Computer Graphics
- Augmented & Virtual Reality
- Game Design & Programming
- Software Design for Handheld Devices

## Computer Security, Privacy, & Cryptography

- Cryptography
- Computer Security
- Network Security
- Software Security
- Information Policy

## And more...

- Check out the [CS Bulletin](#)!

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**03**

**MINOR  
REQUIREMENTS**

# The Breakdown



**18 CREDITS**

**6 COURSES**

**4 REQUIREMENTS**

**2 ELECTIVES**

# Minor Requirements

## 1. Apply

- Apply no later than the start of your 5th semester, or completion of 60th credit, whichever comes later
- A grade of B or higher in CSCI 1111 or CSCI 1011 or CSCI 1012 or CSCI 1121
  - CSCI 1012 does not count towards the minor, but will allow you to apply for it
- A grade of B- or higher in Math 1231 or Math 1232 or in both Math 1220 and Math 1221.
- Minimum GPA of 3.0 at the time of application

## 2. Required Courses

- CSCI 1111 – Introduction to Software Development
- CSCI 1112 – Algorithms & Data Structures
- CSCI 1311 – Discrete Structures I
- CSCI 2113 – Software Engineering

## 3. Elective Courses

- 2 courses with CSCI 2113 as a prerequisite



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**04**

**QUICK LINKS**

# Quick Links

1. **Minor** – <https://cs.engineering.gwu.edu/minor-computer-science>
2. **Double Major (BA)** – <https://cs.engineering.gwu.edu/bachelor-arts-program>
3. **Double Major (BS)** – <https://cs.engineering.gwu.edu/bachelor-science-program>
4. **Applications** – <https://cs.engineering.gwu.edu/admission-computer-science-second-major-or-minor>
5. **CS Bulletin** – <https://bulletin.gwu.edu/courses/csci/>



# THANK YOU

Questions?

# Thanks

**Do you have any questions?**

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