



## **Transfer Guide for Associate of Applied Science Computer Science from AAS in Computer Networking Technologist, 2010-2011**

The following is presented as an articulation agreement between Joliet Junior College (JJC) and Governors State University (GSU) for the Computer Science degree program based on the 2010-11 catalogs of both schools. The student would receive an Associate of Applied Science (AAS) in Computer Networking Technologist degree from JJC and a Bachelors of Science (BS) degree in Computer Science from GSU.

### **I. TRANSFERABLE GENERAL EDUCATION: (24 credits)**

#### **Communications (6 credits)**

- ENG 101 - Rhetoric (3)
- SPCH 101 - Principles of Speech (3) (recommended but not required for AAS)

#### **Humanities and Fine Arts (3 credits)**

- Humanities Course (3)\*

#### **Mathematics (8 credits)**

- MATH 131 - College Algebra (4)
- MATH 137 - Introduction to Discrete Mathematics (4) (recommended, substitutes for MATH 340)\*\*

#### **Physical and Life Sciences (4 credits)**

Select one life science or one physical science course, must have a lab.

#### **Social and Behavioral Sciences (3 credits)**

- Social Science Course (3)\*

### **II. CORE REQUIREMENTS (32 credits)**

- CNT 101 - Networking Fundamentals (4)
- CNT 102 - Routing Protocols and Concepts (4)
- CNT 103 - LAN Switching and Wireless Communication (4)
- CNT 104 - Accessing the WAN (4)
- CNT 205 - Building Scalable Internetworks (4)
- CNT 206 - Implementing Secure Converged Wide-Area Networks (4)
- CNT 207 - Building Multilayer Switched Networks (4)
- CNT 208 - Optimizing Converged Networks (4)

### **III. ELECTIVES (16 credits)** Select at least sixteen credit hours from the following:

- CIS 136 - PASCAL Programming (4)
- CIS 236 - Programming in C (4) (recommended, substitutes for CPSC 342)
- CIS 237 - The UNIX Operating System (4)
- CIS 246 - Advanced C Using C++ (4) (recommended, substitutes for CPSC 345)
- CIS 263 - Networking Essentials (3)
- CIS 271 - Windows Client OS (4)
- CIS 272 - Windows Server I (4)
- CIS 273 - Windows Server II (4)
- CIS 274 - Advanced Server Topics (4)

### **REQUIRED A.A. DEGREE PROGRAM TOTAL: 66 credits (72 credits as written)**

\* Refer to the JJC AA/AS guidelines for a list of course choices for Section I

\*\* Refer to JJC's catalog requires prerequisite course(s)  
(over)

**III. TO BE TAKEN AT JJC OR GSU (A maximum of 3 hours can be completed at JJC)**

**JJC** ENG 102 - Rhetoric (3) or  
**GSU** - Written Communications Course (3)

**JJC or GSU** - Fine Arts Course (3)\*

**JJC or GSU** - Humanities Course (3)

**JJC** MATH 150 - Mathematical Analysis for Business (4) or  
**GSU** MATH 355 - Applied Calculus (3)

**IV. TO BE TAKEN AT GSU**

**Required Courses (34-40 Hours)**

CPSC 342 - Computer Programming: Introduction to C++ (3) (if JJC's CIS236 not taken)

CPSC 345 - Computer Programming: C++ (3) (if JJC's CIS246 not taken)

CPSC 390 - Introduction to Software Engineering (3)

CPSC 405 - Computer Organization (3)

CPSC 415 - Data Structures (3)

CPSC 435 - Operating Systems (3)

CPSC 438 - Discrete Structures (3)

CPSC 442 - Introduction to Computer Networks (3)

CPSC 445 - Database Systems (3)

CPSC 450 - Introduction to Algorithms (3)

STAT 520 - Statistical Methods (3)

Social and Behavioral Science Course (3)

Life Science Course (4) or Physical Science Course (4) (one must have a lab)

**Advanced Selectives (18 Hours)**

Select from the list in the GSU catalog.

**Required for BS in Computer Science: 120 hours (up to 139 hours as written)**

**For Additional Information:**

**Governors State University**

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

**Office of Admission**

**(708) 534-4490**

**gapply@govst.edu**

**Joliet Junior College**

**[www.jjc.edu](http://www.jjc.edu)**

**Career and Transfer Center**

**(815) 280-2449**