

Select Courses for CNSM:

Typical courses for CNSM major include:

- Introduction to Internet of Things (IoT)
- Network theory and Application
- Network Administration
- Wireless Communication
- Connected Products Application
- Network Security & Prevention Management
- Cloud Computing System Management
- Cyber Security System Management

Students will have the opportunity to conduct their Two-Semester long Senior Project as well as their technical elective courses at the Apprenticeship sponsoring company.



Partnership with Cisco Systems



Contact

**Computer Network System
Management**

Aviation & Technology Department

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Computer Network System Management



**A Unique Degree Program
Partnership with Industry**

**Offered by
Aviation & Technology Department**

Introduction

Computer Network System Management (CNSM) is a BS Degree in the Industrial Technology Program at San Jose State University. This program is intended to prepare graduates for the ever increasing employment opportunities in the field of Computer Network Systems and Management.



Fields of Employment

The Computer Network System Management is a diverse and expanding field which leads to careers including telecommunications and network services.

The Computer Network System Management program prepares students to work in Technical and Management fields in support of the network with excellent salaries.

Career Preparation

The Computer Network System Management graduates could design, implement, and maintain computer and information networks such as Local Area Network (LAN), Wide Area Network (WAN), internet/intranet/extranet, and data communication networks. They would be able to design and maintain network and computer security to protect from cyber-attacks.

Career Opportunities

The Computer Network System Management graduates could develop their careers as Network Specialist, Network/System Managers, Network/System Administrators, and Information Technology (IT) Director/Manager/Specialist.

Apprenticeship

Through this Apprenticeship program, Students in the Industrial Technology Program with a concentration in Computer Network System Management are expected to take courses at San Jose State University during their freshman and sophomore years and be prepared to pass the Cisco Certified Network Associate (CCNA) exam to demonstrate qualification to earn an interview for an Apprenticeship at Cisco Systems. Qualified students will be eligible to interview for the paid Apprenticeship during their first semester of their junior year. Students in the Apprenticeship program will have the opportunity to earn course credit by working on Computer Network System projects for their technical elective courses and their two-semester long senior project.



Degree Program Requirements

The Computer Network System Management degree program requires the completion of 120 semester units of course work. The course work could be completed starting as a freshman or as a transfer student. This requires the completion of:

• General Education courses	30 units
• Preparation for the Major	24 units
• Technical Electives	6 units
• Business Minor	15 units
• Computer Network System Management	45 units

One unique part of this degree program is the concurrent completion of a Business Minor along with a BSIT with concentration in Computer Network System Management.



