

## COMPUTER & INFORMATION SYSTEMS

**Interested in any of the following: Computer Networking and System Administration, Computer Support, Cisco (CCNA and CCNP), Linux/UNIX, Microsoft, Security, Wireless, or Virtualization Infrastructure?**

From the Cabrillo website ([www.cabrillo.edu](http://www.cabrillo.edu)), select Academics/Careers, then Career Technical Education, and then select Computer and Information Systems or Computer Networking and System Administration for more information.

**Interested in becoming a Computer Support Specialist?**

From the Cabrillo website ([www.cabrillo.edu](http://www.cabrillo.edu)), select Academics/Careers, then Career Technical Education, and then select Computer Support Specialist for more information.

CS 1 and CS 1L are college-level introductory courses providing a foundation for subsequent college-level coursework. We encourage all students to enroll in these courses.

Cabrillo College is fully accredited. Certificates and degrees are available. Many CIS courses are articulated with California State University (CSU) schools.

**The CIS Lab is located in the STEM Center. For information regarding CIS Lab Hours, see [http://www.cabrillo.edu/services/stem/STEM\\_center.html](http://www.cabrillo.edu/services/stem/STEM_center.html). For information regarding specific courses, please contact the instructor.**

Many CIS course sections are taught online AND in-person.

### CIS 15 Cloud Programming With Python

Teaches the fundamental concepts and models of application development including the basic concepts of program design, data structures, programming, problem solving, programming logic, and fundamental design techniques for event-driven programs.

Transfer Credit: Transfers to CSU;UC

Section	Days	Times	Units	Instructor	Room
99521	Arr.	Arr.	4.00	M.Matera	OL

Section 99521 is an ONLINE course. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

Section	Days	Times	Units	Instructor	Room
99522	T	1:00PM-5:05PM	4.00	M.Matera	828
&	Arr.	Arr.		M.Matera	OL

Section 99522 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 50 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

### CIS 32 Introduction to Internet Programming

Presents an introduction to Internet-related programming using primarily client-side scripting languages like JavaScript. Recommended Preparation: DM 60; eligibility for MATH 154.

Transfer Credit: Transfers to CSU;UC

Section	Days	Times	Units	Instructor	Room
98158	Arr.	Arr.	4.00	J.Bergamini	OL

Section 98158 is a ONLINE course. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

### CIS 70 Introduction to Computer Hardware and Software

Covers installing, maintaining, and upgrading PC-type (Intel and Intel compatible) microcomputer systems. Recommended Preparation: CS 1 and CS 1L.

Transfer Credit: Transfers to CSU

Section	Days	Times	Units	Instructor	Room
98159	TH	5:30PM-9:35PM	4.00	M.Nogueira	829
&	Arr.	Arr.		M.Nogueira	OL

Section 98159 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 50 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

### CIS 72 Introduction to Operating Systems

Provides an overview of computer operating systems such as UNIX/Linux, Microsoft Windows Operating Systems. Recommended Preparation: CS 1 and CS 1L or equivalent.

Transfer Credit: Transfers to CSU

Section	Days	Times	Units	Instructor	Room
98160	W	9:30AM-11:35AM	4.00	.Staff	828
&	Arr.	Arr.		.Staff	OL

Section 98160 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 2 hr 5 min online lecture per week and an additional 50 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

### CIS 75 Fundamentals of Computer Security

Introduces fundamental principles and topics of Information Technology Security and Risk Management at the organizational level. Prerequisite: CIS 81 or equivalent skills. Recommended Preparation: CIS 72 or equivalent skills.

Transfer Credit: Transfers to CSU C-ID ITIS 160

Section	Days	Times	Units	Instructor	Room
98161	Arr.	Arr.	3.00	M.Matera	OL

Section 98161 is an ONLINE course. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

Section	Days	Times	Units	Instructor	Room
98162	W	5:30PM-8:35PM	3.00	M.Matera	828
&	Arr.	Arr.		M.Matera	OL

Section 98162 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 50 min online lab per week. Students will be required to show that they meet the course prerequisites. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

### CIS 76 Introduction to Cybersecurity: Ethical Hacking

Introduces the various methodologies for attacking a network. Covers network attack methodologies with the emphasis on student use of network attack techniques and tools, and appropriate defenses and countermeasures. Prerequisite: CIS 75.

Transfer Credit: Transfers to CSU

Section	Days	Times	Units	Instructor	Room
98163	T	5:30PM-8:35P	3.00	R.Simms	OL

Section 98163 is an ONLINE course. Meets weekly throughout the semester online by remote technology with an additional 50 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

Section	Days	Times	Units	Instructor	Room
98164	T	5:30PM-8:35PM	3.00	R.Simms	828
&	Arr.	Arr.		R.Simms	OL

Section 98164 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 50 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

**CIS 81 Computer Network Fundamentals**

Covers the architecture, structure, functions, components, and models of the Internet and other computer networks. Hybrid Requisite: Completion of or concurrent enrollment in CIS 72 or equivalent skills. Recommended Preparation: Eligibility for MATH 154.

Transfer Credit: Transfers to CSU

Section	Days	Times	Units	Instructor	Room
98167	M	9:00AM-1:05PM	4.00	R.Graziani	828
&	Arr.	Arr.		R.Graziani	OL

Section 98167 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 50 min online lab per week. Students will be required to show that they meet the course prerequisites. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

**CIS 83 Switched Networks and Connecting Networks**

Covers intermediate features of networks including switching and routing technologies, VLANs, VTP, STP, EtherChannel, network device security, troubleshooting, and WAN technologies. Prerequisite: CIS 81.

Transfer Credit: Transfers to CSU

Section	Days	Times	Units	Instructor	Room
98168	T	6:00PM-8:05PM	4.00	Staff	829
&	Arr.	Arr.		Staff	OL

Section 98168 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 2 hr 5 min online lecture per week and an additional 50 min online lab per week. Students will be required to show that they meet the course prerequisites. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

**CIS 90 Introduction to UNIX/Linux**

Provides a technical overview of the UNIX/Linux operating system, including hands-on experience with commands, files, and tools. Recommended Preparation: CIS 1L or CIS 72.

Transfer Credit: Transfers to CSU;UC

Section	Days	Times	Units	Instructor	Room
98169	W	1:00PM-4:05PM	3.00	R.Simms	OL
&	Arr.	Arr.		R.Simms	OL

Section 98169 is an ONLINE course. Meets weekly throughout the semester online during the scheduled times by remote technology with an additional 50 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

Section	Days	Times	Units	Instructor	Room
98170	W	1:00PM-4:05PM	3.00	R.Simms	828
&	Arr.	Arr.		R.Simms	OL

Section 98170 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 50 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

**CIS 116 IPv6 Fundamentals**

Introduces IPv6 addressing and address types, dynamic IPv6 address assignment using SLAAC and DHCPv6, ICMPv6 Neighbor Discovery, routing IPv6, and securing an IPv6 network. Prerequisite: CIS 81. Recommended Preparation: CIS 82.

Section	Days	Times	Units	Instructor	Room
98150	M	5:30PM-8:35PM	3.00	R.Graziani	828
&	Arr.	Arr.		R.Graziani	OL

Section 98150 is a Hybrid ONLINE course. Students will be required to show that they meet the course prerequisites. Meets weekly throughout the semester at the scheduled times with an additional 3 hr 5 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

**CIS 174 Virtualization Infrastructure (VMware ICM)**

Teaches installation, configuration, and management of virtual infrastructure. Prerequisites: CIS 72 and CIS 81. Recommended Preparation: CIS 70; Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
98151	M	6:00PM-9:05PM	3.00	Staff	OL

Section 98151 is an ONLINE course. Meets weekly throughout the semester online at the scheduled times by remote technology with an additional 50 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

**CIS 185 Advanced Routing-Cisco CCNP Route**

Teaches implementing, monitoring, and maintaining routing services in an enterprise network. Prerequisite: CIS 82 or equivalent knowledge.

Section	Days	Times	Units	Instructor	Room
98152	Arr.	Arr.	3.00	R.Graziani	OL

Section 98152 is an ONLINE course. Students will be required to show that they meet the course prerequisites. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

**CIS 191AB UNIX/Linux Installation, Configuration and Administration**

Introduces skills required to administer UNIX/Linux systems. Prerequisite: CIS 90 or equivalent skills.

Section	Days	Times	Units	Instructor	Room
98154	Arr.	Arr.	4.00	M.Matera	OL

Section 98154 is an ONLINE course. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

Section	Days	Times	Units	Instructor	Room
98155	TH	1:00PM-5:05PM	4.00	M.Matera	828
&	Arr.	Arr.		M.Matera	OL

Section 98155 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 50 min online lab per week. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

**CIS 194 Microsoft Windows Client Administration**

Configure and administer the Microsoft Windows client operating system. Prerequisite: CIS 72.

Section	Days	Times	Units	Instructor	Room
98157	Arr.	Arr.	3.00	Staff	OL

Section 98157 is an ONLINE course. Students will be required to show that they meet the course prerequisites. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).

Section	Days	Times	Units	Instructor	Room
98156	M	2:00PM-5:05PM	3.00	Staff	828
&	Arr.	Arr.		Staff	OL

Section 98156 is a Hybrid ONLINE course. Meets weekly throughout the semester at the scheduled times with an additional 50 min online lab per week. Students will be required to show that they meet the course prerequisites. For details, see instructor's web page at [go.cabrillo.edu/online](http://go.cabrillo.edu/online).