The Program

Natural and Applied Sciences Division
Wanda Garner, Division Dean
Division Office, Room 701
Susan Nerton, Program Chair: (831) 479-6545
Gerlinde Brady, Program Contact: (831) 477-5672
Counselor: (831) 479-6225 or (831) 479-6274 for an appointment
Watsonville Counselor: (831) 477-5134
Call (831) 479-6328 for more information
Web site: www.cabrillo.edu/programs

“Nine out of the ten technology jobs are in non-technology companies.”
— ITAA (Information Technology Associations of America)

The Computer and Information Systems program is designed to help students acquire the knowledge and skills necessary to work in computer technical support positions and prepare for industry certification exams. Students will be able to provide technical support, troubleshooting, training and documentation to internal and external customers. Courses include computer hardware, operating systems, common software utilities, fundamentals of networking and help desk concepts. Various certificate options are available in the areas of CompTIA A+ Preparation and Computer Support Technician 1. Related job titles include Help Desk Operator/Specialist, Software Support Analyst, Help Desk/Software Support Manager and Computer Operations Manager.

Communication skills are critical to success in this field. Therefore, students are strongly encouraged to complete the English (ENGL) and Communication Studies (COMM) requirements early in their program.

Labor Market Information: Santa Cruz County
Fastest Job Growth, 2001-2008
Computer Support Specialists
Computer & Information Systems Managers
For more info:
http://www.calmis.ca.gov/htmlfile/subject/occproj.htm

Curriculum

COMPUTER AND INFORMATION SYSTEMS OCCUPATIONAL PROGRAM

Core Courses          Units
CS 1      Introduction to Computers and Computer Technology .................. 3
CS 1L     Lab: Introduction to Computers and Computer Technology .......... 2
CS 2      Introduction to Computer Engineering  .......... 4
CIS 81    Networking Fundamentals and Theory (Cisco CCNA 1) ............. 4
CIS 101   Opportunities in Computer Technology .......... 1
CIS 170   Introduction to Computer Hardware and Software ................. 4
CIS 172   Introduction to Operating Systems .................. 4

Total: 17-18

APPROVED ELECTIVES

CS 11     Introduction to Programming Concepts and Methodology, C++ .......... 4
CS 12J    Introduction to Programming Concepts and Methodology, Java .. 4
CS 20J    Java Programming ........................................................................ 4
CS 19     C++ Programming ......................................................................... 4
CS 21     Introduction to Data Structures and Algorithms .................. 4
CS 23     Discrete Mathematics .................................................................. 4
CS 24     Elementary Computer Organization ........................................ 4
CS 29     Object Oriented Programming .................................................. 4
CIS 10    Programming in Visual Basic.NET ............................................. 4
CIS 60A-ZZ Special Topics in Computer and Information Systems .......... 1/2 - 4
CIS 82    Introduction to Routing Technologies and Theory (Cisco CCNA 2) .... 4
CIS 89    Data Communications ................................................................. 3
CIS 90    Introduction to UNIX/Linux ....................................................... 3
CIS 103   Technical Support & Troubleshooting ........................................ 4
CIS 130   UNIX/Linux Shell Programming .................................................. 4
CIS 131   Perl Programming in a Unix Environment .................................. 4
CIS 132   Introduction to Internet Programming ....................................... 4
CIS 135   Access Database Management .................................................. 4
CIS 132   Access Programming ................................................................. 4
CIS 134   Introduction to Client/Server Relational Database Management Systems ........ 4
CIS 156A   Introduction to Oracle 9i: SQL .................................................. 4
CIS 156B   Oracle PL/SQL Programming ..................................................... 4
CIS 160A-ZZ Special Topics in Computer and Information Systems ........ 1/2 - 4
DM 160    Introduction to HTML ................................................................. 3
DM 162    Introduction to Web Graphics ..................................................... 3
DM 164    Intermediate Web Publishing .................................................... 3
CIS 164   Introduction to Managing and Securing a Web Server ............... 3
CIS 165   Introduction to Programming Database-Driven Web Sites With ASP .................................................. 4
CIS 165J   Introduction to Programming Database-Driven Web Sites With Java .................................................. 4
CIS 165PH  Introduction to Programming Database-Driven Web Sites With PHP .................................................. 4
CIS 170AB  A+ Certification Exam Preparation ........................................ 2
CIS 175    Fundamentals of Computer Security ......................................... 3
CIS 194    Microsoft Windows Client Administration ................................ 3
CIS 197    Microsoft Windows Network Infrastructure ................................ 3
CIS 199C   Cooperative Work Experience Education (Internship) .......... 1-4

CERTIFICATE OF PROFICIENCY: CIS FUNDAMENTALS

Computer Information Systems Core Courses .................. 17-18
One of the following CIS Skills Certificates:
A+ Preparation, Computer Support Technician 1, Database Application Development ................................. 12-17
COMM 2 or COMM 10 ................................................................. 3
ENGL 1A, ENGL 1AMC, CABT 157 ............................................. 3

Total for Certificate in Proficiency: 35-41
Who May Enroll

Cabrillo College is open to anyone 18 years of age or older, or anyone with a high school diploma or proficiency certificate. High school students also may attend classes at Cabrillo on a limited basis with the permission of their high school principals.

How To Apply

1. Complete and submit an application form. Forms are available in the Schedule of Classes, online at www.cabrillo.edu, or call the Admissions Office at (831) 479-6201, or the Watsonville Center at (831) 477-5100. Send written requests to Cabrillo College, 6500 Soquel Drive, Aptos, CA 95003.
2. After submitting your application, contact the Counseling Division, (831) 479-6274.

Nondiscrimination Policy

Cabrillo Community College does not discriminate on the basis of ethnic group identification, national origin, religion, age, sex, race, color, physical or mental disability, or sexual orientation in any of its policies, procedures, or practices. This nondiscrimination policy covers admission and access to, and treatment and employment in, the college’s programs and activities, including vocational education programs. Limited English language skills will not be a barrier to admission to and participation in vocational education programs.

Plan De Acción No Discriminatoria

Cabrillo Community College no discrimina a base de identificación con grupos étnicos, nacionalidad de origen, religión, edad, sexo, raza, color, incapacidad mental o física ni orientación sexual en ninguna de sus reglamentaciones, procedimientos o prácticas. Este plan de acción no discriminatoria incluye la admisión y el acceso a los programas y actividades, y el tratamiento y el empleo en los mismos, incluyendo la educación vocacional. Tener limitadas destrezas en el idioma inglés no constituirá una barrera para ser admitido o participar en los programas de educación vocacional.

This brochure was produced with the support of a Vocational Technical Education Act grant from the California Community College Chancellor’s Office.