

COMPUTER SCIENCE

Reception for new and continuing Computer Science majors: Monday, August 24, 2009, 6:30-7:30PM Room 2502. Meet the faculty and discover more about the computer science program.

Interested in any of the following: Computer Programming, Java, C++, Software Engineering, Game Programming, Computer Engineering, or Web Programming?

- Go to <http://www.cabrillo.edu/programs> and select Computer Science 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. Computer Science provides transfer options to UC and CSU.

CS 1 Introduction to Computers and Computer Technology

Surveys the fields of study within computer science and computer technology with a focus on computer literacy in the 21st Century.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63115	W	01:00PM-04:05PM	3.00	R.Graziani	612
&	Arr.	Arr.		B.Durland	1400
+ 3 hr 5 min open lab per week.					
63116	M	06:00PM-09:05PM	3.00	R.Norden	612
&	Arr.	Arr.		B.Durland	1400
+ 3 hr 5 min open lab per week.					

CS 1L Lab: Introduction to Computers and Computer Technology

Covers the fundamentals of information literacy and computer proficiency including the computer aided research process and essential skills in using operating systems, word processing, spreadsheets, e-mail, image manipulation, and presentation software. Recommended Preparation: CS 1 (may be taken concurrently) and CABT 106, or previous Cabrillo computer course or equivalent.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63121	W	09:00AM-11:25AM	2.00	G.Brady	516
&	W	11:35AM-12:25PM		G.Brady	516
&	Arr.	Arr.		B.Durland	1400
Meets 13 weeks, 9/2-10/7 and 10/21-12/2. + 1 hr 25 min open lab per day. Students must also be enrolled in Digital Bridge Academy. For information regarding Digital Bridge Academy, see Digital Management Career Preparation in the Schedule of Classes or call (831) 477-5164.					
63123	F	09:00AM-11:35AM	2.00	R.Norden	Wat4550
&	F	11:45AM-12:35PM		R.Norden	Wat4550
&	Arr.	Arr.		M.Nogueira	Wat4510
Meets 12 weeks, 9/18-10/23 and 11/6-12/18. Holiday 11/27. + 1 hr 35 min open lab per day. Students must also be enrolled in Digital Bridge Academy. For information regarding Digital Bridge Academy, see Digital Management Career Preparation in the Schedule of Classes or call (831) 477-5164.					
63124	M	01:00PM-03:05PM	2.00	S.Nerton	1302
&	Arr.	Arr.		B.Durland	1400
+ 2 hr 5 min open lab per week.					
63125	W	06:00PM-08:05PM	2.00	S.Nerton	1302
&	Arr.	Arr.		B.Durland	1400
+ 2 hr 5 min open lab per week.					

CS 11 Introduction to Programming Concepts and Methodology, C++

Presents an introduction to computer programming using the C++ language including procedural and object-oriented design methodology along with computer mathematics. Recommended Preparation: CS 1 or CS 2; MATH 154.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63117	T	10:20AM-12:25PM	4.00	E.Parrish	516
&	TH	10:20AM-11:10AM		E.Parrish	516
&	TH	11:20AM-12:10PM		E.Parrish	516
&	Arr.	Arr.		B.Durland	1400
+ 5 hr 10 min open lab per week.					
63118	W	06:00PM-09:05PM	4.00	E.Parrish	516
&	W	09:15PM-10:05PM		E.Parrish	516
&	Arr.	Arr.		B.Durland	1400
+ 5 hr 10 min open lab per week.					

CS 12J Introduction to Programming Concepts and Methodology, Java

Presents an introduction to computer programming using the Java programming language beginning with basic principles and progressing to object-oriented programs, including visual programming. Recommended Preparation: CS 1 or CS 2; MATH 154.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63119	M	10:00AM-12:05PM	4.00	S.Nerton	1302
&	W	10:00AM-10:50AM		S.Nerton	1302
&	W	11:00AM-11:50AM		S.Nerton	1302
&	Arr.	Arr.		B.Durland	1400
+ 5 hr 10 min open lab per week.					

CS 19 C++ Programming

Programming, documentation, and software design methodologies using C++. Prerequisite: MATH 4. Recommended Preparation: CS 11 or equivalent.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63120	MW	09:30AM-10:50AM	4.00	S.Hodges	1301
&	Arr.	Arr.		B.Durland	1400
+ 6 hr 10 min open lab per week. Students will be required to show that they meet the course prerequisites.					

CS 20J Java Programming

Learn programming, documentation, and software-design methodologies using Java. Prerequisite: MATH 4. Recommended Preparation: CS 12J or equivalent.

Transfer Credit: CSU; UC.

Section	Days	Times	Units	Instructor	Room
63126	MW	11:00AM-12:20PM	4.00	E.Parrish	2501
&	Arr.	Arr.		B.Durland	1400
+ 6 hr 10 min open lab per week. Students will be required to show that they meet the course prerequisites.					

CONSTRUCTION AND ENERGY MANAGEMENT

CEM 151 Construction Fundamentals: Principles and Practices

Covers the sequence of events for residential construction from both an owner's and a builder's point of view. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
62956	M	06:00PM-09:05PM	3.00	C.Mornard	825

For hands-on practice in skills taught in CEM 151, enroll in CEM 151L as well.

CEM 151L Construction Fundamentals: Principles and Practices Lab

Covers the methodology and techniques for residential construction from a skills and vocational point of view. Corequisite: CEM 151. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
62957	S	11:15AM-02:20PM	1.00	T.Umstead	1304
62958	T	02:00PM-05:05PM	1.00	Mornard/Compton	1304

CEM 154 Construction Estimating

Covers basic methods of construction estimating and cost preparation for material, labor, overhead and equipment costs and its relationship to project budgets and management. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
64601	W	06:00PM-09:05PM	3.00	C.Mornard	828

CEM 157 Construction Law

Introduces complex legal principles and issues confronted in the construction profession in both the public and private sectors. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
62960	T	06:00PM-09:05PM	3.00	J.Hall	828

CEM 161 Construction Business and Related Topics

Introduces business fundamentals, principles, practices, procedures, and topics related to construction. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
64602	TH	06:00PM-09:05PM	3.00	C.Mornard	828

CEM 162SP Solar Photovoltaic Design and Installation

Introduces solar photovoltaic system requirements, design and configurations, installation techniques, and their application in residential and commercial construction. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
62962	T	06:00PM-08:05PM	3.00	L.Sonsino	1301
&	T	08:15PM-10:05PM		L.Sonsino	1304
&	Arr.	Arr.		L.Sonsino	1304

+ 1 hr 5 min arranged per week.

CEM 163 Fundamentals of Renewable Energy Systems

Introduces renewable and alternative energy sources including grid interactive, stand-alone systems, wind, active and passive solar energy collection, site evaluation, design analysis of various systems and materials and methods of construction. Recommended preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
62963	TH	06:00PM-09:05PM	3.00	J.Jordan Jr.	615

CEM 167 Fundamentals of the International Building Code II

Provides training in the non-structural design portions of the International Building Code, including occupancy classification, types of construction and exiting. Repeatability: May be taken 2 times. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
62964	M	06:00PM-09:05PM	3.00	J.Heaney	711

CEM 169 Fundamentals of the Uniform Mechanical Code

Provides training in the requirements of the Uniform Mechanical Code, including mechanical systems for heating and cooling systems, combustion air, venting, ducting, refrigeration, and commercial kitchen vent hood and is designed for contractors, architects, designers, and those seeking ICBO Certification. Repeatability: May be taken 2 times. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
62965	W	06:00PM-09:05PM	3.00	J.Heaney	711

CEM 175A Electric Code and Materials 1: Residential

Provides training in the selection and installation of various electrical wiring systems as specified by the National Electric Code (NEC) for residential construction. Repeatability: May be taken 2 times. Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
62966	TH	06:00PM-09:05PM	3.00	S.Livingston	825

CEM 178A Residential Construction Skills 1: "Front End"

Introduces "front end" construction: foundation layout, framing fundamentals, rough plumbing, rough HVAC, and rough electrical basics typical of residential construct Recommended Preparation: Eligibility for MATH 154.

Section	Days	Times	Units	Instructor	Room
62967	S	09:00AM-11:05AM	3.00	Mornard/Umstead	1301
&	S	11:15AM-02:20PM		T.Umstead	1304