

## MESA

### MATHEMATICS, ENGINEERING, SCIENCE ACHIEVEMENT

MESA is one of the country's oldest and most successful programs to assist students in preparing for careers in math-based fields. Established in California in 1970, MESA programs exist at secondary, university, and community college levels. Cabrillo's MESA Program sponsors the MESA Study Center and provides:

- Academic Excellence Workshops-participating students meet twice a week to sharpen skills and improve understanding for selected math, physics, or engineering courses;
- A study center equipped with computers and a small reference library of science and math textbooks, and videos; and
- Drop-in and group tutoring in math and sciences provided by math and science professionals and by students.

Another benefit available to all students in the MESA Study Center is the opportunity to be a member of a supportive community founded on academics, the setting of high goals, and steady perseverance toward these goals. This sense of community and shared purpose usually has a strong positive effect on retention and success.

Extra services and opportunities are offered to students who qualify for MESA membership. These services and opportunities include:

- Free printing and copying in the Center
- Field trips to industry sites, science museums, and prospectivetransfer universities;
- Academic counseling to establish education plans and ensure successful transfer in science and math majors;
- Scholarships, internships, leadership retreats, summer researchprograms;
- Long-term calculator, computer, and locker checkouts; and
- Sponsored student travel to professional conferences.

Students intending to transfer in a math or science major who are also eligible to receive financial aid or who are the first in their families to attend college may be eligible for MESA membership. To find out more, come by the MESA Transfer Study Center in Room 714, call (831) 479-6503, or visit the website at <http://www.cabrillo.edu/services/mesa>.

### OPEN ACCESS COMPUTER LAB

Students may use the Open Access Computer labs for word processing, and Internet access. The Open Access Labs are located in the Library, the Aptos CTC (Building 1400) and Watsonville CTC (Room 4510).

### READING CENTER

The Reading Center at Cabrillo provides reading instruction for students of nearly all reading abilities. Courses range from basic reading to transfer level speed reading and critical reading. In addition, the Reading Center offers open-entry/open-exit individualized reading and vocabulary labs for those who prefer self-paced work.

Reading Center services are provided at both the Aptos and Watsonville campuses. Reading Center hours will vary. See the *Schedule of Classes* for days and hours, or phone (831) 479-6573 or (831) 479-6442.

## SCHOLARSHIPS

Each year Cabrillo College awards a number of scholarships ranging in amounts from \$500 to \$2500. Awards are made on a competitive basis using the criteria for selection established by the donors of these scholarships. Consideration is given to scholastic achievement, academic promise, financial need, and community and campus involvement. The application deadline is generally in early December. Additional information regarding application procedures for scholarships may be obtained from the Financial Aid and Scholarships Office, either at the Aptos campus or Watsonville Student Resource Center.

### Extended Opportunity Program and Services (EOPS)

EOPS grants are awarded through the Financial Aid Office to students with verified exceptional need who qualify under state program guidelines as determined by the EOPS Office.

### Cooperative Agencies Resources for Education (C.A.R.E.)

C.A.R.E. is a state-funded program for EOPS eligible students who are single heads of household with children up to 14 years of age currently receiving CalWORKS.

## STUDENT EMPLOYMENT

The Student Employment staff actively serves Cabrillo College students and graduates who are seeking employment in full- or part-time positions off campus. The Student Employment Office is also the central office for all on-campus student jobs, including Work Study and Fast Track positions. All on- and off-campus student jobs are listed online on the Student Employment web site. Additionally, all hiring paperwork for on campus student jobs is processed by the Student Employment Office. Workshops on job seeking skills are offered each semester, and individualized assistance with resumes is available by appointment. Phone, fax and computer access to jobs is available to students through the center, which is located in Room 804.

The Student Employment Office enjoys the confidence of a wide range of employers who regularly list job openings and to whom qualified students are referred. The Student Employment service is integrated with the total educational process of the College and works cooperatively with occupational education departments, the College Career Planning Center, Financial Aid Office, and Cooperative Work Experience Education. Call (831) 479-6413 for additional information.

## STUDENT RIGHTS AND RESPONSIBILITIES

**Student Rights**—The Cabrillo Community College District is committed to the protection of the individual rights of all students. Pursuant to Title VI of the Civil Rights Act, 1964, the protection of these rights is guaranteed in regard to sex, race, color, national origin, language, religion, age, disability, or sexual orientation.

Should the situation arise in which a Cabrillo College student suspects that these rights have been violated in the application of district policies or local, state, or federal law, students will be given the opportunity to seek resolution of further complaint through an established procedure.

Administrative regulations describing the procedures for student rights and responsibilities are available in the Office of the Dean of Student Services, Room 914.

**Student Responsibilities**—All students who register for classes at Cabrillo College have the responsibility of attending class regularly, completing assignments on time, doing their own work (not plagiarizing), demonstrating respect for faculty, administration, staff, and all Cabrillo College community members. All Cabrillo College students have the responsibility of respecting the College campus, equipment, and materials and reporting abuse or vandalism of such to the proper authorities. All Cabrillo College students have the responsibility of demonstrating professional behavior and following the guidelines described in the Student Rights and Responsibilities Handbook.

## STROKE AND ACQUIRED DISABILITY CENTER

The Stroke and Acquired Disability Center offers a series of special classes for adults with functional loss, and for caregivers, including mobility and fitness skills, independent living skills, speech, hearing, and language skills, and dealing with disabilities. Classes are located in the Stroke Center in Delaveaga Park, Santa Cruz. Transportation is available through Metro ParaCruz. A physician's approval will be required. Call (831) 425-0622 for enrollment information.

## TRANSFER/CAREER CENTER

The Cabrillo Transfer/Career Center is designed to provide services to students who plan to transfer to four-year colleges and universities and to encourage and facilitate the transfer of students who have been historically underrepresented in higher education. Students are encouraged to participate in the ongoing Transfer/Career Center services which are published monthly in the Transfer/Career Center events calendar, or to visit the Transfer/Career Center and take advantage of the transfer resource library. Counseling faculty all have strong and recent training in Transfer Advising and preparation for competitive Universities and majors. Staff are available to assist students with applications, research, and access to information. The Transfer/Career Center is also open to both students and community members. Few life decisions are more important than determining how to shape one's future. The Transfer/Career Center staff assists students in self-assessment of interest, skills, values, limitations and the exploration of the job market. Based on assessment and personal goals, students receive assistance in evaluating possible careers that lead to success and satisfaction. Career and academic counseling is available to help students develop educational and vocational plans leading to entry into career fields, vocational training and transfer to four year universities. The Transfer/Career Center offers professional career counseling and assessment, courses in career planning, workshops on career planning and job seeking skills, interest and personality assessment, a career library, and computer work stations. Career assessment and counseling are offered to the community for a modest fee.

The Transfer/Career Center is located in the 100 Building. For more information, call (831) 479-6385. At the Watsonville Center, Transfer/Career Center resources are available at the Student Resource Center in Room 4320, or call (831) 477-5134.

## TUTORIAL CENTER

The Tutorial Program offers free group assistance to all Cabrillo College students with special services available to students enrolled in EOPS, Disabled Students Program and Services (DSPS) and certain career majors. All tutorial staff and many tutors are bilingual in Spanish and English. The Tutorial Center offers CG 205L, a corequisite of CG 205 (Academic Survival Skills), where students practice study skills learned in their class. Unit credit is available for this lab (1-3 units).

The Center is open Monday 8:00 a.m.–5:00 p.m., Tuesday-Thursday, 8:00 a.m.–6:00 p.m. and Friday 8:00 a.m.–4:00 p.m. Interested persons may receive more information at the Center, Room 1080, or by calling (831) 479-6470 or (831) 479-6126.

## WATSONVILLE INTEGRATED LEARNING CENTER

Staff at the Integrated Learning Center in room 4410 on the second floor of the Watsonville Center provide tutoring in math, English and other subjects, labs in writing (ENGL 100L, ENGL 290), ESL and reading, and assistance with various learning resources. Students have access to computers, study space for individuals and groups, course reserve materials and a reference collection. Library cards, checkout and return are facilitated on site. Videos for telecourses, language lab materials, and other media are available for viewing and checkout. Hours during the semester are 8 am to 8 pm Monday–Thursday and 8 am–4 pm on Friday. Call (831) 477-5155 for more information.

## WRITING CENTER AND ESL LAB

The Writing Center tutoring staff can help students strengthen their writing and editing skills. Students may sign up for open-entry, individualized labs in grammar, spelling, and writing, and they may drop in for free tutoring when referred by a teacher or counselor (ENGL 502L). The Center also offers ENGL 100L, the ENGL 100 co-requisite lab that focuses on grammar and mechanics. For current hours of service and more information about tutoring services, call (831) 479-6319.

The ESL Lab is part of the Writing Center and provides tutorial assistance to students for whom English is not their primary language. To earn credit on a drop-in basis, the ESL lab offers ESL 200L to 204L. ESL students may also sign up for tutoring support by taking ESL 502 for no credit and at no cost. Please call (831) 479-5790 for more details.

All Writing Center and ESL Lab courses are credit/no credit and open to all Cabrillo students.

# Program Information

## ASSOCIATE DEGREE

The awarding of an Associate Degree represents more than an accumulation of units. It symbolizes a thoughtful attempt on the part of Cabrillo College to introduce students to patterns of learning experiences designed to develop specific capabilities and insights described by the four college core competencies. A student earning an Associate Degree from Cabrillo will be competent in:

- **Communication**  
(Reading, Writing, Listening, Speaking and/or Conversing)
- **Critical Thinking and Information Competency**  
(Analysis, Computation, Research, Problem Solving)
- **Global Awareness**  
(An Appreciation of Scientific Complexities, Social Diversity and Civics, and Artistic Variety)
- **Personal Responsibility and Professional Development**  
(Self-Management and Self-Awareness, Social and Physical Wellness, Workplace Skills)

An Associate in Arts Degree is primarily a liberal arts degree, though the major may be in a specific field, a general area, or in Liberal Arts with an emphasis in Arts and Humanities, Social Sciences or Interdisciplinary Studies. In 1998, Cabrillo established two new transferable Associate in Arts Degrees that combine the admissions requirements of either the University of California or the California State University with the Cabrillo graduation requirements. Please see the Combined Requirements for the A.A. and Intersegmental General Education Transfer Curriculum (IGETC) or the Combined Requirements for the A.A. and California State University General Education.

The Associate in Science Degree is oriented to occupational programs (for those who seek employment with a two-year degree), and those who are in natural, physical, and applied science majors. For a detailed list of relevant transfer majors, see the chart of degrees and certificates at the end of this catalog section. In some majors, a student may choose to earn either an Associate in Arts or an Associate in Science Degree.

The completion of an Associate in Arts or an Associate in Science Degree does not ensure that a student can transfer directly to a four-year college or university. Students interested in transferring should consult a counselor and the catalog of the institution to which transfer is intended. Only one English course below transferable freshman composition may be used toward the Associate Degree. Units gained in 200 level courses will not count towards the Associate Degree. General Education courses from regionally accredited colleges or universities that have an equivalent at Cabrillo will be used in the area that best serves the student; either the general education area designations of the original institution or the pattern offered by Cabrillo.

## REQUIREMENTS FOR THE ASSOCIATE IN ARTS (A.A.) DEGREE

Requirements are effective for students entering Cabrillo College fall 1991 and thereafter.

### GENERAL EDUCATION REQUIREMENTS . . . 30 UNITS

#### Area A: English Language, Communication and Critical Thinking . . . . . 6 units

##### A-1: English Language

**Goal:** To ensure that Cabrillo graduates read, write, and speak critically and competently. Because acquiring and refining literacy is an ongoing process reinforced through writing-intensive courses, students should complete Area A requirements early in their studies. Speaking and listening skills are reinforced through multiple opportunities for interpersonal communication and small group discussion in Area A courses.

##### Students will be able to:

Understand and demonstrate the writing and speaking processes through invention, organization, drafting, revision, editing, and presentation. In so doing, students will learn to:

- a) Develop a topic, using abundant detail and example and using non-narrative writing techniques, including comparison, summary, argument, analysis, and definition
- b) Unify essays through natural and logical transitions
- c) Show control of all major conventions of Standard English grammar, usage, and punctuation

##### Select 3 units from:

- 1) English 1A, 1AH, #1AMC, #1AMCH

##### A-2: Communication and Critical Thinking

**Goal:** To develop thinkers who are able to construct arguments utilizing factual, creative, and rational modes of thought and using words, symbols, and numbers as appropriate. To integrate new skills into their customary manner of thinking, students must be actively engaged in practicing thinking skills and applying them to open-ended as well as practical problems.

**Students will be able to:**

- Gather factual information and apply it to a given problem in a manner that is relevant, clear, comprehensive, and conscious of possible bias in the information selected
- Identify premises, conclusions, claims, assumptions, and biases in one's own argument as well as in the arguments of others
- Avoid errors in reasoning and unexamined assumptions and identify them in the arguments of others
- Imagine and seek out a variety of possible goals, assumptions, interpretations, or perspectives that can give alternative meanings or solutions to given situations or problems
- Recognize and articulate the value assumptions which underlie and affect decisions, interpretations, and evaluations made by ourselves and others.

**Select 3 units from:**

- Business 5; Communication Studies 1, 2, 4, 10; Computer Science 1, 11; English 1B, #1BMC, 2, 2H, #2MC, #2MCH, Mathematics (any, excluding 200 level courses); Philosophy 12, 49

All of Area A must be completed with a "C" or better.

**Area B: Scientific Inquiry . . . . . 6 units****Area B-1**

**Goal:** To improve students' understanding of natural science principles and of the ways in which scientists investigate natural science phenomena.

**Students will be able to:**

- Effectively communicate ideas from the physical sciences
- Understand and apply the scientific method in the physical sciences
- Demonstrate understanding of scientific theories from the physical sciences
- Apply physical models to explain the behavior of commonly occurring phenomena
- Articulate how measurement errors impact the application of scientific models.

**Select 3 units from the following:**

- 1) Physical Universe:** Astronomy 3, 4, 8A\*; Chemistry 1A\*, 2\*, 5\*, 10\*, 12A, 12AL\*, 12B, 12BL\*, 30A\*, 30B\*; 32\*; Environmental Science 10, 10L; Geography 1, 1L\*, 7; Geology 10\*, 15, 20\* 25; Meteorology 1, 1L\*; Oceanography 10\*, Physics 2A\*, 2B\*, 4A\*, 4B\*, 4C\*, 4D, 10, 10L\*, 11\*, 12

**Area B-2**

**Goal:** To improve students' understanding of complex and varied life forms and life processes.

**Students will be able to:**

- Effectively communicate concepts from the biological sciences
- Understand and apply the scientific method in the biological sciences
- Demonstrate understanding of scientific principles from the biological sciences
- Apply biological principles to interpret the observations of the natural world.

**Select 3 units from the following:**

- 2) Life Forms:** Anthropology 1, 1H, 1L\*; Biology 1A\* 1B\*, 1C\*, 4\*, 5\*, 6\*, 11A\*, 11B\*, 11C\*, 13A, 13AL\*, 13B, 15ABCD\*(min 3 units), 21A\*; Horticulture 1A\*, 1B\*; Psychology 4

Laboratory courses are marked with an asterisk (\*); one lab science is required.

**Area C: Arts and Humanities . . . . . 6 units**

**Goal:** To enrich and expand students' knowledge of the human condition and human cultures, especially in relation to behavior, ideas, and thought. Through study in the disciplines of literature, philosophy, and the fine and per-

forming arts, students will engage in critical analysis, develop aesthetic judgments, and learn to appreciate the arts and humanities. Students will learn respect for cultural diversity and value the multiple voices which contribute to the health and vitality of society.

**Students will be able to:**

- Demonstrate awareness of the scope and variety of works in the arts and humanities
- Critically appreciate those works as expressions of individual and universal values within historical, social, and cultural contexts
- Analyze the aesthetic qualities of works in the arts and humanities
- Engage in the creative process of linguistic expression, philosophical reasoning, fine and performing arts, and analytical and creative writing
- Develop and express informed personal responses to works in the arts and humanities

**Select courses from at least two different departments:**

Art 2A, 4, 5, 7A, 8A, 24, Art Photography 9A, Art History 10, 11, 12, 13, 14, #16, #17, #18, #19, 20A, 20B, #52, 53, 77; Chinese 1, 2; Dance 10, #12; English 1B, #1BMC, 12A, 12B, 12C, 12D, 12E, 12F, 17, 20A, 20B, #24A, #24B, 30A, 30B, 31, 32, 33, 34, #39, 40, #41A, #41B, #45, 46A, 46B, 47, 48A, 49A, 49B; French 1, 2, 3, 4, 10; German 1, 2, 3, 4, 10; History #2A, #2B, 4A, 4AH, 4B, 4BH; Italian 1, 2, 3, 10; Japanese 1, 2; Music 1, 5, 6, 10, 10M (82) #11A, #11LA, #12, #13A, 17A, 19, 33A, 34, 35, 36, 38, 40, 46, 49, 51A, 54, 55, 58, 77; Philosophy 4, 6, 7, 8, 9, 10, 10H, #14, #15, 16; Sign Language Studies 1, 2, 3; Spanish 1, 2, 3, 4, 5A, 5B, 6A, 6B, 10A, 10B, 16, 17, 25, 26, #30B; Theatre Arts 7, #8, 9, 10A, 28, 29, 77

**Area D: Social Sciences . . . . . 9 units**

**Goal:** To increase students' knowledge of how historians and social and behavioral scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events, and ideas. Such knowledge will better equip students to understand themselves and the roles they play in addressing the issues facing humanity.

**Students will be able to:**

- Employ the methods and data that historians and social/behavioral scientists commonly use to investigate the human condition
  - Identify important information resources in history and the social/behavioral sciences
  - Examine institutions and processes across a range of historical periods and social settings
  - Use and critique models and methods for explaining behavior
  - Articulate and analyze alternative approaches to the solution of contemporary social issues.
- Select one U.S. History course from the following: History 14, 15, 17A, 17AH, 17B, 17BH, #18A, #18B, #21A, #21AH, #21B, #21BH, #29A, #29B
  - Select one U.S. Political Science course from the following: PS 1, 1H, or 5

- 3) Select a third course to complete the 9-unit requirement: Anthropology #2, 3, #6, #7, #8, #9, #17; Bilingual/Bicultural Studies #32; Communication Studies 7, #12; Early Childhood Education 31, 32; Economics 1A, 1B; Environmental Science 20; Geography #2, #4, 5; Health Science 15; History #2A, #2B, 4A, 4AH, 4B, 4BH, #6, 14, 15, #16A, #16B, #16C, 17A, 17AH, 17B, 17BH, #18A, #18B, #19A, #19B, #19C, #21A, #21AH, #21B, #21BH, 24, #29A, #29B; Journalism 21; Political Science 1, 1H, 2, 3, 4, 5; Psychology 1, 2, 6, 8, 12, 26, 31, 33; Sociology 1, 1H, #2, #2H, #3, 5, #8, #9, 47; Women's Studies 1, #2 #5, 7, 11, 13

**Area E: Lifelong Learning and Self-Development . . . . . 3 units**

**Goal:** To increase students' knowledge and understanding of self, others, and interpersonal relationships from a physiological, psychological, and/or social context throughout the life cycle.

**Students will be able to:**

- a) Develop the abilities to synthesize course material, including theoretical frameworks and their applications
- b) Assess themselves and others in relationship to course content
- c) Develop the ability to apply self-selected course concepts for increased efficacy in their lives.

**Select from:**

Communication Studies 7, #12; Culinary Arts and Hospitality Management 20; Counseling & Guidance 1, 54, 58, 59; Early Childhood Education 31, 33; Health Science 10, 12, 14, 15, 20, 21, 22; Psychology 33, 35ABC, 37ABC, 39ABC; Sociology 5

**MULTICULTURAL STUDIES REQUIREMENT . . . . . 3 units**

**Goal:** To promote critical thinking and enrich students' understanding of cultural diversity by studying under-represented ethnic and racial groups in the country of their origin or in the United States.

**Students will be able to:**

- a) Analyze their own attitudes, behaviors, and beliefs regarding diversity and bias
- b) Demonstrate an appreciation for diversity and multiculturalism, one that allows for the development of skills leading to effective communication and satisfactory social relations
- c) Recognize the historical experiences of ethnic and racial groups in the United States who have been targets of individual and institutional racism and classism
- d) Recognize the contributions to American society and culture made by ethnic groups who have suffered discrimination and exclusion
- e) Explore the development of group and individual identity within unequal power relations while addressing the unique historical and contemporary responses from within each group.

**Select from:**

Anthropology 2, 6, 7, 8, 9, 17; Art History 16, 17, 18, 19, 52; Bilingual/Bicultural Studies 32; Communication Studies 12; Dance 12; English 1AMC, 1AMCH, 1BMC, 2MC, 2MCH, 24A, 24B, 39, 41A, 41B, 45; Geography 2, 4; History 2A, 2B, 6, 16A, 16B, 16C, 18A, 18B, 19A, 19B, 19C, 21A, 21AH, 21B, 21BH, 29A, 29B; Music 11A, 11LA, 12, 13A; Philosophy 14, 15; Sociology 2, 2H, 3, 8, 9; Spanish 30B; Theatre Arts 8; Women's Studies 2, 5,

**Multicultural courses are marked with a number sign (#) in the GE areas and may be double counted.**

Note: Courses taken to meet the Multicultural Studies Requirement also count under appropriate areas for general education.

**MAJOR REQUIREMENTS . . . . . 18-20 UNITS**

The major may be in a specific field, a general area, or in liberal arts. A counselor or advisor will help you develop a major program of studies.

**MATHEMATICS COMPETENCY REQUIREMENT**

**Goal:** To promote critical thinking and logical reasoning while developing problem solving skills by studying the structure of the real number system.

**Students will be able to:**

- a) Show a basic sense of numbers, including approximation and estimation
- b) Manipulate algebraic symbols and work a variety of basic algebra problems
- c) Translate problem situations into an appropriate representation and use that representation to solve the problem at hand
- d) Interpret, understand, and explain mathematical problems in verbal, numerical, symbolic, and graphical settings
- e) Understand the connections of mathematics to other disciplines.

The Mathematics Requirement may be met by successful completion of intermediate algebra or equivalent or a higher-level mathematics course with a grade of "C" or better. Successful completion must be verified by an official college transcript or by an appropriate score on the Cabrillo mathematics assessment.

**ELECTIVES . . . . . 0-10 UNITS**

Elective units, in addition to general education and major units, may be needed to complete the required total of sixty (60) semester units.

*The cumulative grade point average for the Associate in Arts Degree must be 2.0 ("C") or better in a published curriculum which includes the general education requirements.*

*Twelve (12) semester units may be pass ("P") grades instead of letter grades. (These 12 units can be in addition to those courses regularly using Pass/no pass grading.)*

*At least twelve (12) of the required sixty (60) semester units must be completed in residence at Cabrillo College.*

*Note: A course may be used to meet a requirement in only one area, except for multicultural studies.*

**REQUIREMENTS FOR THE ASSOCIATE IN SCIENCE (A.S.) DEGREE**

Requirements effective for students entering Cabrillo College fall 1991 and thereafter.

**GENERAL EDUCATION REQUIREMENTS . . . . . 21 UNITS**

**Area A: English Language**

**Communication and Critical Thinking . . . . 6 units**

**Select 3 units from:**

- 1) English 1A, 1AH, #1AMC, #1AMCH

**Select 3 units from:**

- 2) Business 5; Communication Studies 1, 2, 4, 10; Computer Science 1, 11; English 1B, #1BMC, 2, 2H, #2MC, #2MCH; Mathematics (any, excluding 200 level); Philosophy 12, 49

All of Area A must be completed with a "C" or better.

**Area B: Scientific Inquiry . . . . . 3 units**

**Goal:** To increase students' understanding of scientific principles and their applications to the world around us.

**Students will be able to:**

- a) Effectively communicate scientific ideas
- b) Understand and apply the scientific method
- c) Demonstrate understanding of scientific theories and principles
- d) Apply scientific models to explain the behavior of commonly occurring phenomena.

**Select 3 units from the following:**

**Physical Universe:** Astronomy 3, 4, 8A\*; Chemistry 1A\*, 2\*, 5\*, 10\*, 12A, 12AL\*, 12B, 12BL\*, 30A\*, 30B\*, 32\*; Environmental Science 10, 10L; Geography 1, 1L\*, 7; Geology 10\*, 15, 20\*, 25; Meteorology 1, 1L\*; Oceanography 10\*; Physics 2A\*, 2B\*, 4A\*, 4B\*, 4C\*, 4D, 10, 10L\*, 11\*, 12

**Life Forms:** Anthropology 1, 1H, 1L\*; Biology 1A\*, 1B\*, 1C\*, 4\*, 5\*, 6\*, 11A\*, 11B\*, 11C\*, 13A, 13AL\*, 13B, 15ABCD\*(min 3 units), 21A\*; Horticulture 1A\*, 1B\*; Psychology 4

**Laboratory Sciences:** See courses marked with an asterisk (\*). A lab science is strongly recommended.

**Area C: Arts and Humanities . . . . .3 units****Select 3 units from the following:**

Art 2A, 4, 5, 7A, 8A, 24, Art Photography 9A; Art History 10, 11, 11L, 12, 13, 14, #16, #17, #18, #19, 20A, 20B, #52, 53, 77; Chinese 1, 2; Dance 10, 12#; English 1B, #1BMC, 12A, 12B, 12C, 12D, 12E, 12F, 17, 20A, 20B, #24A, #24B, 30A, 30B, 31, 32, 33, 34, #39, 40, #41A, #41B, #45, 46A, 46B, 47, 48A, 49A, 49B; French 1, 2, 3, 4, 10; German 1, 2, 3, 4, 10; History #2A, #2B, 4A, 4AH, 4B; 4BH, Italian 1, 2, 3, 10; Japanese 1, 2; Music 1, 5, 6, 10, 10M (82) #11A, #11LA, #12, #13A, 17A, 19, 33A, 34, 35, 36, 38, 40, 46, 49, 51A, 54, 55, 58, 77; Philosophy 4, 6, 7, 8, 9, 10, 10H, #14, #15, 16; Sign Language Studies 1, 2, 3; Spanish 1, 2, 3, 4, 5A, 5B, 6A, 6B, 10A, 10B, 16, 17, 25, 26, #30B; Theatre Arts 7, #8, 9, 10A, 28, 29, 77

**Area D: Social Sciences. . . . .6 units****1) Select a U.S. History or U.S. Political Science course from the following:**

History 14, 15, 17A, 17AH, 17B, 17BH, #18A, #18B, #21A, #21AH, #21B, #21BH, #29A, #29B, Political Science 1, 1H, 5

**2) Select a second course to complete the 6 unit requirement:**

Anthropology #2, 3, #6, #7, #8, #9, #17; Bilingual/Bicultural Studies #32; Communication Studies 7, #12; Early Childhood Education 31, 32; Economics 1A, 1B; Environmental Science 20; Geography #2, #4, 5; Health Science 15; History #2A, #2B, 4A, 4AH, 4B, 4BH, #6, 14, 15, #16A, #16B, #16C, 17A, 17AH, 17B, 17BH, #18A, #18B, #19A, #19B, #19C, #21A, #21AH, #21B, #21BH, 24, #29A, #29B; Journalism 21; Political Science 1, 1H, 2, 3, 4, 5; Psychology 1, 2, 6, 8, 12, 26, 31, 33; Sociology 1, 1H, #2, #2H, #3, 5, #8, #9, 47; Women's Studies 1, #2, #5, 7, 11, 13

**Area E: Lifelong Learning and Self-Development. . . . .3 units**

Communication Studies 7, #12; Culinary Arts and Hospitality Management 20; Counseling and Guidance 1, 54, 58, 59; Early Childhood Education 31, 33; Health Science 10, 12, 14, 15, 20, 21, 22; Psychology 33, 35ABC, 37ABC, 39ABC; Sociology 5

A student graduating from the Associate Degree nursing program is considered to have satisfied the essential content of Area E for the associate degree and shall be considered to have satisfied the unit requirement in Area E for the associate degree.

**MULTICULTURAL STUDIES REQUIREMENT . . . . .3 Units****Select from:**

Anthropology 2, 6, 7, 8, 9, 17; Art History 16, 17, 18, 19, 52; Bilingual/Bicultural Studies 32; Communication Studies 12; Dance 12; English 1AMC, 1AMCH, 1BMC, 2MC, 2MCH, 24A, 24B, 39, 41A, 41B, 45; Geography 2, 4; History 2A, 2B, 6, 16A, 16B, 16C, 18A, 18B, 19A, 19B, 19C, 21A, 21AH, 21B, 21BH, 29A, 29B; Music 11A, 11LA, 12, 13A; Philosophy 14, 15; Sociology 2, 2H, 3, 8, 9; Spanish 30B; Theatre Arts 8; Women's Studies 2, 5

**Multicultural courses are marked with a number sign (#) in the GE areas and may be double counted.**

Note: Courses taken to meet the Multicultural Studies Requirement also count under appropriate areas for general education.

**MAJOR REQUIREMENTS . . . . .30 Units**

- Major (30-unit minimum) Note: The A.S. Degree major is normally in a two-year vocational-career program, such as those in business and the technical fields.
- The A.S. Degree major is a specialized major and should be planned with the aid of a counselor or faculty advisor.

**MATHEMATICS COMPETENCY REQUIREMENT**

The mathematics requirement may be met by successful completion of intermediate algebra or equivalent or a higher-level mathematics course with a grade of "C" or better. Successful completion must be verified by an official college transcript or by an appropriate score on the Cabrillo mathematics assessment.

**ELECTIVES . . . . .0-9 Units**

Elective units, in addition to general education and major units, may be needed to complete the required total of sixty (60) semester units.

- The cumulative grade point average for the Associate in Science Degree must be 2.0 ("C") or better in a published curriculum which includes the general education requirements.*
- Twelve (12) semester units may pass ("P") grades instead of letter grades. (These 12 units can be in addition to those courses regularly using pass/no pass grading.)*
- At least twelve (12) of the required sixty (60) semester units must be completed in residence at Cabrillo College.*

*Note: A course may be used to meet a requirement in only one area, except for multicultural studies.*

**MODEL PROGRAMS FOR OCCUPATIONAL (A.S.) ASSOCIATE DEGREES**

Cabrillo College occupational majors are listed alphabetically in this catalog and are followed by program requirements. Exceptions or substitutions to program requirements must be approved by the Program Chair.

**REQUIREMENTS FOR MULTIPLE OCCUPATIONAL ASSOCIATE DEGREES**

Requirements for Multiple Associate Degrees within Occupational Programs

To be eligible for multiple associate degrees within occupational programs, a student must satisfactorily complete all the requirements of the majors with at least a 2.0 grade point average. In general, multiple associate degrees cannot be awarded within one occupational program unless otherwise stated in the specific program description of this catalog.

If the student has not been enrolled at Cabrillo College for two or more consecutive semesters, s/he will need to meet any new general education and major requirements in effect during the academic year in which s/he returns.

**REQUIREMENTS FOR MULTIPLE ASSOCIATE DEGREES IN TRANSFER PROGRAMS**

To be eligible for multiple associate degrees in transfer programs (or a combination of occupational and transfer program degrees), a student must satisfactorily complete all the requirements of the majors with at least a 2.0 grade point average. In addition, students must complete at least ten units in coursework specific to their major requirements (as per the suggested programs in the Cabrillo College *Catalog*) that are not replicated in the major requirements for any other degree they seek or possess.

If the student has not been enrolled at Cabrillo College for two or more consecutive semesters, s/he will need to meet any new general education and major requirements in effect during the academic year in which s/he returns.

## MODEL PROGRAMS FOR (A.A./A.S.) ASSOCIATE DEGREES

Cabrillo College majors are listed alphabetically in this catalog and are followed by a "Model Program." The courses listed under the model programs are courses that fulfill the requirements for an A.A./A.S. Degree in that discipline at Cabrillo, and may fulfill some of the lower-division major requirements for a number of four-year universities in our area. However, transfer students should follow the major preparation listed for their chosen transfer school. This information can be found at "<http://www.assist.org>" or consult a Cabrillo Counselor.

Transfer students must also meet the admissions requirements of the 4-year transfer university. Please see the handout in the Transfer Center entitled "Essential Transfer Information" or follow the Combined Requirements for the IGETC AA/AS or the Combined Requirements for the CSU GE AA/AS. These requirements are listed in the following pages of this *Catalog*.

### Transfer Requirements for UC & CSU

Students who plan to transfer should note that each college and university has its own admission, general education, and lower-division major requirements that must be completed prior to transfer, and these requirements vary greatly from institution to institution.

### General Education Requirements

General Education Requirements are a major portion of all degree programs. Students have several options for completing General Education Requirements depending on the degree they plan to attain, and the campus or institution to which they plan to transfer. Following are the general education patterns most commonly followed by Cabrillo transfer students:

1. California State University's (CSUs) General Education Requirements for a BA/BS Degree (yellow handout available in the Counseling Division and Transfer Center). This general education pattern fulfills the lower division general education required by the CSU System. By following the Combined Requirements for the Associate Degrees and CSU General Education (yellow handout) students complete the admissions requirements, the lower division general education, and the lower division major preparation (if planned correctly) needed for admission to the California State University.
2. Intersegmental General Education Transfer Curriculum (IGETC) for a BA/BS Degree at any of the University of California (UC) or California State University (CSU) campuses (lavender handout available in the Counseling Division and Transfer Center). This general education pattern fulfills the lower division general education requirements for either the California State University or the University of California systems. By following the Combined Requirements for the Associate Degrees and the IGETC (lavender handout) students complete the admissions requirements, the lower division general education, and the lower division major preparation (if planned correctly) needed for admission to either the California State University or the University of California systems. The UC system puts restrictions on the use of IGETC for some majors, check ASSIST ([www.assist.org](http://www.assist.org)) or a Cabrillo college counselor for advice.
3. For each campus of the University of California, a student may complete the General Education pattern specific to that campus. The UC Santa Cruz General Education Requirements for a B.A./B.S. Degree (white or buff-colored handout) is available in the Counseling Division and Transfer Center. Other campus specific General Education patterns can be found on ASSIST at [www.assist.org](http://www.assist.org). Campus specific general education patterns do not incorporate the admission requirements for the University. Students following these patterns must make sure that they have also fulfilled the UC requirements for admission (see "Essential Transfer Information," (green handout) available in the Counseling Division, the Transfer Center, and on the Cabrillo College Transfer and Articulation website.

Students should consult with a Cabrillo counselor to determine which general education pattern is appropriate given their academic goals.

## TRANSFER TO THE UNIVERSITY OF CALIFORNIA

(Berkeley, Davis, Irvine, Los Angeles, Merced, Riverside, San Diego, Santa Barbara, Santa Cruz)

### Admission Requirements for Transfer Students

For admission to the University of California (UC) as a transfer student, students must complete at least 60 UC transferable semester units with a 2.4 minimum grade point average; to be competitive at all nine undergraduate campuses, students should have a 3.0 grade point average or higher. (UC Berkeley and UCLA both require a GPA higher than a 3.0 to be selective.) Information on course transferability is included in each course description. Unless students were eligible for admission to the University of California directly from high school, specific course requirements must also be met: one transferable college course in mathematics, two transferable courses in English composition, and four transferable college courses chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, the physical and biological sciences. These specific requirements must be passed with grades of "C" or higher. The course in mathematics must have a prerequisite of intermediate algebra (MATH 15 does not meet this requirement). The university will accept a maximum of 70 UC transferable semester units from California Community Colleges.

### General Education Requirements

Students have two options in completing the general education requirements for the University of California.

**Option 1)** The Combined Requirements for the Associate Degrees and IGETC. This option allows students to complete both the IGETC requirements and the requirements for an Associate Degrees. The IGETC is accepted at all campuses of both the University of California and the California State University provided the entire curriculum (34 units) is completed prior to transfer.

**Option 2)** Each campus of the University of California has its own campus-specific general education requirements. Prospective transfer students should visit the Transfer Center in Building 100 to look up the campus specific general education requirements on the Internet ([www.assist.org](http://www.assist.org)) or to examine the catalog of the campus to which they plan to transfer for specific general education requirements. Students should meet with a Cabrillo counselor to assist them in choosing their general education option.

### Lower-Division Major preparation

To determine the lower-division courses required for a specific campus and major, students should refer to the ASSIST articulation database on the Internet ([www.assist.org](http://www.assist.org)) which is bookmarked on the Internet stations in the Cabrillo Transfer Center, Building 100. If a UC campus has not posted this information in ASSIST, students should refer to the UC catalog to determine the lower-division courses required for their major. Determining lower-division major preparation for a given campus and major can be complex, and requirements change frequently. It is strongly advised that students meet with a Cabrillo counselor to assist them with this process.

**Transfer Admission Agreements (Guaranteed Admission)**

While eligible students can be admitted to any campus of UC, Cabrillo has special transfer admission agreements (TAAs) with Davis, Irvine, Merced, Riverside, Santa Barbara, San Diego, and Santa Cruz. Students who are qualified may write a TAA which guarantees admission to these campuses. Contact the Counseling office at (831) 479-6274 to schedule an appointment either to develop a transfer plan or to write a transfer admission agreement.

**COMBINED REQUIREMENTS FOR THE ASSOCIATE DEGREES AND IGETC TRANSFERABLE TO UC AND CSU**

By completing the following requirements, students will complete both an Associate Degree at Cabrillo and the IGETC general education pattern which enables students to transfer to either the California State University (CSU) or the University of California (UC) with all admission and lower-division general education requirements met. Since requirements still vary slightly between the two university systems, students should read this information carefully. Caution: this degree does not guarantee admission to any specific campus in either the UC or CSU systems nor does it guarantee admission to a specific major.

**UC-Combined Requirements for the IGETC Associate Degrees**

(2.4 GPA required):

1. 60 UC transferable units;
2. \*General Education-Complete IGETC Areas 1-5 plus the foreign language requirement;
3. Multicultural course (Complete only if you want an Associate Degree before transfer);
4. Major-see Model Program section above.  
\*GE courses must be "C" or better.

**CSU-Combined Requirements for the IGETC Associate Degrees**

(2.0 GPA required):

1. 60 CSU transferable units;
2. \*General Education-Complete IGETC Areas 1-5 including 5 courses in Area 4 for full certification for CSU;
3. Multicultural course (Complete only if you want an Associate Degree before transfer);
4. Major-see Model Program section above.  
\*GE courses must be "C" or better.

**AREA 1: ENGLISH COMMUNICATION****6 units for UC, 9 units for CSU**

**Group a:** English 1A, 1AH, #1AMC, #1AMCH

**Group b:** English 2, 2H, #2MC, #2MCH, Philosophy 49 (beg F03)

**Group c:** Communication Studies 1, 2, or 10 CSU only

**AREA 2: MATHEMATICAL CONCEPTS & QUANTITATIVE REASONING**

Select one Mathematics course. 3 units

**Mathematics:** Math 2, 3, 4, 5A, 5B, 5C, 6, 7, 10, 12, 12H, 13, 18 (beg S02), 23

**AREA 3: ARTS AND HUMANITIES . . . . . 9 units**

Select one course from the Arts and one from the Humanities; the third course may be either arts or humanities.

**Arts:** Art History 10, 11, 12, 13, 14, #16, #17, #18, #19, 20A, 20B, #52, 53, 77; Dance 10, #12; Music 1, 5, 6, 10, 10M (82) #11A, #11LA, #12, #13A, 77; Theatre Arts #8, 9, 77

**Humanities:** English 1B, #1BMC, 20A, 20B, #24A, #24B, 30A, 30B, 31, 32, 33, 34, #39, 40, #41A, #41B, #45, 46A, 46B, 47, 48A, 49A; French 3, 4; German 3,4; History #2A, #2B, 4A, 4AH, 4B, 4BH; Italian 3; Philosophy 4, 6, 7, 8, 9, 10, 10H, #14, #15, 16; Spanish 3, 4, 6A, 6B, 25, 26, #30B

**AREA 4: SOCIAL AND BEHAVIORAL SCIENCES . . . . . 9 units**

Select at least three courses from at least two different disciplines or an interdisciplinary sequence. For CSU full certification five courses are required.

Anthropology #2, 3, #6, #7, #9, #17; Bilingual/Bicultural Studies #32; Early Childhood Education 31, 32; Economics 1A, 1B; Environmental Science 20; Geography #2, #4, 5; Health Science 15; History #2A, #2B, 4A, 4AH, 4B, 4BH, #6, 14\*, 15\*, #16A, #16B, #16C, 17A\*, 17AH\*, 17B\* 17BH\*, #18A\*, #18B\*, #19A, #19B, #19C, #21A\*, #21AH\*, #21B\*, #21BH\*, 24, #29A\*, #29B\*; Journalism 21; Political Science 1, 1H, 2, 3, 4, 5; Psychology 1, 6, 8, 12, 26, 31, 33; Sociology 1, 1H, #2, #2H, #3, 5, #8, #9, 47; Women's Studies 1, #2, 7, 11

The CSU system has a graduation requirement in U. S. History & U. S. Political Science. It's recommended that students complete these courses in addition to the above Area 4 courses prior to transfer. Choose a History course and a Political Science course marked \* to meet this requirement before transfer. For full certification for CSU, a total of five courses are needed in Area 4.

**AREA 5: PHYSICAL AND BIOLOGICAL SCIENCES: . . . 7 units**

Select one Physical Science and one Biological Science; one of these courses must have a laboratory, and the units for both sciences must total 7. Laboratory sciences are marked +.

**Physical Science (3 - 5 units):** Astronomy 3, 4, 8A+; Chemistry 1A+, 1B+, 2+, 5+, 10+, 12A, 12AL+, 12B, 12BL+; Environmental Science 10, 10L; Geography 1, 1L+, 7; Geology 10+, 15, 20+, 25; Meteorology 1, 1L+; Oceanography 10+; Physics 2A+, 2B+, 4A+, 4B+, 4C+, 4D, 10, 10L+, 11+, 12

**Biological Science (3 - 5 units):** Anthropology 1, 1H, 1L+; Biology 1A+, 1B+, 1C+, 4+, 5+, 6+, 11A+, 11B+, 11C+, 13A, 13AL+, 13B, 21A+ (as of S05); Psychology 4

**FOREIGN LANGUAGE REQUIREMENT****(4 units if not met in high school - UC only)**

Proficiency equivalent to two years of high school study of the same foreign language or one semester of college study of a foreign language is required. Foreign Language courses taken in high school may not be counted under AREA C - Humanities.

The following languages are offered at Cabrillo College:

Chinese, French, German, Italian, Japanese, Sign Language Studies, Spanish

**MULTICULTURAL STUDIES REQUIREMENT . . . . . 3 units**

One course must be taken in Multicultural Studies. Select a course from any area that is marked the number sign (#) or select from the following: BBS 32, COMM 12, WS 2, (6), WS 5. If the course is listed within one of the general education areas on this form, one course may double count for both the multicultural studies requirement and for one of the above requirements.

**MAJOR REQUIREMENTS**

This A.A. Degree requires a total of 60 transferable units (UC transferable units for UC students or CSU transferable units for CSU students). Students transferring to CSU or UC may need to take additional lower-division courses to meet university requirements in their chosen major for their BA/BS Degree. Consult the catalog of the institution to which you plan to transfer and/or work with a counselor to select appropriate courses. Catalogs are available in the Transfer Center.

Please note: Only 4 units of PE activity courses may be counted toward the 60 unit requirement for students transferring to a UC.

## REQUIRED GRADE POINT AVERAGE

The cumulative grade point average for this degree must be a minimum of 2.0 for CSU and 2.4 for UC. At least 12 units must be completed in residence at Cabrillo College. All general education courses must be completed with grades of C or better. Only 12 units may be taken for Pass ("P" grades) and these units may not be in AREA A or in mathematics. Students are also cautioned not to take courses in their major for "P" grades. Students transferring to CSU or UC who complete this degree should request certification for IGETC. Forms to request certification are available in the Admissions Office, Building 100.

\* Indicates course meets U.S. History/Constitutions Requirement.

+ Indicates laboratory science.

# Indicates that course meets Multicultural Studies requirement.

## UC SANTA CRUZ-CABRILLO COLLEGE TRANSFER PROGRAM

A UCSC transfer advisor has regularly scheduled office hours at Cabrillo. Appointments can be scheduled in the Transfer Center, Building 100. For more information, contact the Cabrillo College Transfer Center at (831) 479-6385.

## TRANSFER TO INDEPENDENT OR OUT-OF-STATE COLLEGES AND UNIVERSITIES

At Cabrillo College, we prepare students not only for the UC and CSU systems, but for any four-year college or university in the country. In the past few years, Cabrillo has transferred students to Stanford, Santa Clara, New York University, Sarah Lawrence, Yale, Duke, and many other independent and out-of-state colleges and universities. For more information, contact the Cabrillo College Transfer Center for research or an appointment (831) 479-6385.

## TRANSFER TO THE CALIFORNIA STATE UNIVERSITY SYSTEM

(Bakersfield, Chico, Channel Islands, Dominguez Hills, Fresno, Fullerton, Hayward/East Bay, Humboldt, Long Beach, Los Angeles, Maritime Academy, Monterey Bay, Northridge, Cal Poly Pomona, Sacramento, San Bernardino, San Diego, San Francisco, San Jose, Cal Poly San Luis Obispo, Cal Poly Pomona, San Marcos, Sonoma, Stanislaus)

### Admission Requirements for Transfer Students

For admission to the California State University as a transfer student, students must complete at least 60 CSU transferable semester units with a 2.0 minimum grade point average; some campuses, Cal Poly San Luis Obispo and San Diego State in particular, are more selective and will require a higher grade point average. Information on course transferability is included in each course description in the Cabrillo College *Catalog*. Unless students were eligible for admission to the California State University directly from high school, specific course requirements must also be met for admission: one transferable college course in mathematics, one in English composition, one in critical thinking, and one in oral communication. These specific requirements must be passed with grades of "C" or higher. The course in mathematics must have a prerequisite of intermediate algebra. The university will accept a maximum of 70 UC transferable semester units from California Community Colleges.

### General Education Requirements

Students have two options in completing the general education requirements for the California State University.

**Option 1)** the CSU General Education Requirements. These requirements consist of 39 semester units, which can be completed at Cabrillo College. Students are required to complete a minimum of 30 of the 39 units prior to transfer, however, it is in a student's best interest to complete all 39 prior to transfer. Please refer to The Combined Requirements for the Associate Degrees/CSU GE requirements. This Associate Degree allows students to complete the admissions, general education and major preparation requirements (with good planning) for the CSU campus of their choice and receive an Associate Degree.

**Option 2)** the Intersegmental General Education Transfer Curriculum

(IGETC), is accepted at all campuses of both the California State University and the University of California provided the entire curriculum (34 units) is completed prior to transfer (please refer to the information about the Transferable Associate Degree/IGETC above). Students should meet with a Cabrillo counselor to assist them in choosing their general education option.

### Lower-Division Major Preparation

To determine the lower-division courses required for a specific campus and major, students should refer to the ASSIST articulation database on the Internet ([www.assist.org](http://www.assist.org)). These sites are bookmarked on the Internet stations in the Cabrillo Transfer Center, the 100 Building. If a CSU campus has not posted this information in ASSIST or on the Internet, students should refer to the CSU catalog to determine the lower-division courses required for their major. Determining lower-division major preparation for a given campus and major can be complex, and requirements change frequently. It is strongly advised that students meet with a Cabrillo counselor to assist them with this process.

### Transfer Admission Agreements (Guaranteed Admission)

While eligible students can be admitted to any campus of CSU, Cabrillo has special transfer admission agreements (TAAs) with many CSU campuses. Please check with the Transfer Center for a current list of campuses that offer agreements. Students who are qualified may write a TAA which guarantees admission to these campuses. Contact the Counseling office at (831) 479-6274 to schedule an appointment either to develop a transfer plan or to write a transfer admission agreement.

## COMBINED REQUIREMENTS FOR THE A.A. DEGREE AND CSU GENERAL EDUCATION TRANSFERABLE TO CSU

By completing the following requirements, students will complete both an Associate Degree at Cabrillo and the CSU general education pattern which enables students to transfer to the California State University (CSU) with all admission and \*lower-division general education requirements met. Caution: This degree does not guarantee admission to any specific campus of the CSU system nor does it guarantee admission to a specific major. This degree requires a minimum of 60 transferable units to CSU and must include a multi-cultural studies class.

\*The degree at Cabrillo requires a student to complete 30 of the 39 units of lower division general education including all of Area A and B4. If a student completes the recommended 39 units of general education, then all lower division general education required by CSU will be complete.

### CALIFORNIA STATE UNIVERSITY GENERAL EDUCATION PATTERN

CSU-Combined Requirements for the CSU GE Associate Degrees (2.0 GPA required):

1. 60 CSU transferable units;
2. \*General Education-Complete at least 30 units of the following general education courses including all of Area A & B4-It is advisable to complete all 39 lower division GE units including a US History and a US Political Science. Students who complete less than the 39 units in lower division will be required to complete those units at the university. All students will have at least 9 units of upper division GE to complete at the university;
3. Multicultural course (Complete only if you want an Associate Degree before transfer);
4. Major-see Model Program section above.

\*All Area A -B4 -US History & US Political Science courses must be "C" or better.

## California State University General Education Requirements

### Area A: English Language

#### Communication and Critical Thinking: 9 units

Choose one course from each of the three sub-areas.

**A1-Oral Communications:** Communication Studies 1, 2, 10

**A2-Written Communications:** English 1A, 1AH, #1AMC, #1AMCH

**A3-Critical Thinking:** English 2, 2H, #2MC, #2MCH; Communication Studies 4; Philosophy 12, 49 Note: English 1B may be used here if taken through summer, 2005.

**Area B: Scientific Inquiry and Quantitative Reasoning: minimum of 9 units**

Choose at least one course from the Physical Universe group and one course from the Life Forms group. At least one of these sciences must include a laboratory. Laboratory sciences are marked with an asterisk (\*). Select one course from Mathematical Concepts and Quantitative Reasoning. (Note: all of these courses have a prerequisite of intermediate algebra).

**B1-Physical Universe:** Astronomy 3, 4, 8A\*; Chemistry 1A\*, 2\*, 5\*, 10\*, 12A, 12AL\*, 12B, 12BL\*, 30A\*, 30B\*, 32\*; Environmental Science 10, 10L; Geography 1, 1L\* 7; Geology 10\*, 15, 20\*, 25; Meteorology 1, 1L\*; Oceanography 10\*, Physics 2A\*, 2B\*, 4A\*, 4B\*, 4C\*, 4D, 10, 10L\*, 11\*, 12

**B2-Life Forms:** Anthropology 1, 1H, 1L\*; Biology 1A\*, 1B\*, 1C\*, 4\*, 5\*, 6\*, 11A\*, 11B\*, 11C\*, 13A, 13AL\*, 13B, 15ABCD\*(min 3 units) 21A\* (as of F04); Psychology 4

**B3-Laboratory Sciences:** See courses marked with an asterisk (\*) under B1 and B2. For general education credit, 1 unit laboratory courses must be taken with corresponding lecture courses (Geography 1+1L, Astronomy 10 or 11 +8A, Meteorology 1+1L).

**B4-Quantitative Reasoning:** Mathematics 2, 3, 4, 5A, 5B, 5C, 6, 7, 10, 12, 12H, 15, 13, 18

**Area C: Arts and Humanities: minimum of 9 units**

Students must select at least 3 units from C1 (Arts) and 3 units from C2 (Humanities). No more than two courses may be selected from a single department. However, students may select a maximum of six units of music performance courses. Performance courses are marked with an asterisk (\*).

**C1-Arts:** Art History 10, 11, 12, 13, 14, #16, #17, #18, #19, 20A, 20B, #52, 53, 77; Dance 10, #12; Music 1, 5, 6, 10, 10M (82) #11A, #11LA, #12, #13A, 77; Theatre Arts 7, #8, 9, 10A, 77

Note: Students who completed the following courses fall 1995 or earlier will receive general education credit: ART 2A, 4, 5, 7A, 8A, 24, Art Photography 9A; Music 17A, 19, 33A, 34, 35, 36, 38, 40, 46, 49, 51A, 54, 55, 58; Theatre Arts 28, 29. A maximum of six semester units in performance courses is allowed.

**C2-Humanities:** Chinese 1, 2; English 1B, #1BMC, 12A, 12B, 12C, 12D, 12E, 12F, 17, 20A, 20B, #24A, #24B, 30A, 30B, 31, 32, 33, 34, #39, 40, #41A, #41B, #45, 46A, 46B, 47, 48A, 49A; French 1, 2, 3, 4, 10; German 1, 2, 3, 4, 10; History #2A, #2B, 4A, 4AH 4B, 4BH; Italian 1, 2, 3, 10; Japanese 1, 2; Philosophy 4, 6, 7, 8, 9, 10, 10H, #14, #15, 16; Sign Language Studies 1, 2; Spanish 1, 2, 3, 4, 5A, 5B, 6A, 6B, 10A, 10B, 16, 17, 25, 26, #30B

Note: English 1B may be counted under C2 if not used to meet the A3 requirement. Students planning to attend SFSU or SJSU who did not take English 2 for Area A3 are advised to take English 1B for Area C2. English 1BMC may be counted only under C2.

**Area D: Social Sciences: minimum of 9 units**

No more than two courses may be counted from any single department. It is recommended that courses in three departments be taken to insure breadth.

Anthropology #2, 3, #6, #7, #8, #9, #17; Bilingual/Bicultural Studies #32; Communication Studies 7, #12; Early Childhood Education 31, 32; Economics 1A, 1B; Environmental Science 20; Geography #2, #4, 5; Health Science 15; History #2A, #2B, 4A, 4AH, 4B, 4BH, #6, 14\*, 15\*, #16A, #16B, #16C, 17A\* 17AH\*, 17B\*, 17BH\*, #18A\*, #18B\*, #19A, #19B, #19C, #21A\*, #21AH\*, #21B\*, #21BH\*, 24, #29A\*, #29B\*; Journalism 21; Political Science 1\*, 1H\*, 2, 3, 4, 5\*; Psychology 1, 2, 6, 8, 12, 26, 31, 33; Sociology 1, 1H, #2, #2H, #3, 5, #8, #9, 47; Women's Studies 1 #2, 7, 11

\*Note: CSU graduation requires fulfillment of a U.S. History, Constitution, and American Ideals requirement which may or may not be included in the general education package. Students should check the requirements of the campus to which they plan to transfer. Taking one history course and one political science course marked with an asterisk (\*) will insure completion of this CSU graduation requirement.

**Area E: Lifelong Learning and Self-Development: . . . 3 units**

Counseling and Guidance 1; Culinary Arts and Hospitality Management 20; Early Childhood Education 31, 33; Health Science 10, 12, 14, 15, 20, 21, 22; \*Psychology 35AB, 35C, 37AB, 37C, 39AB, 39C, Women's Studies 1, #2.

Also: Early Childhood Education \*\*31, Psychology 33 and Sociology 5 may be used if not used to meet Area D requirements.

\*Students must complete the ABC sequence (3 units) to receive general education credit for Psych 35 or 37 or 39.

# Indicates that course meets Multicultural Studies requirement.

The total number of General Education semester units that can be certified by Cabrillo College is 39. Students must request certification of General Education from Admissions and Records prior to transfer. In order to have 39 units certified, students must complete 9 units from Area A, a minimum of 9 units each from Areas B, C, and D, and 3 units of Area E. (Students must have GE certified in order to use "P"- Pass grades to satisfy GE requirements.)

**MULTICULTURAL STUDIES REQUIREMENTS ASSOCIATE REQUIREMENT ONLY**

One course must be taken in Multicultural Studies. Select a course from any area that is marked with the number sign #. If the course is listed within one of the general education areas on this form, one course may double count for both the multicultural studies requirement and for one of the above requirements.

**MAJOR REQUIREMENTS**

This Associate Degree requires a total of 60 CSU transferable units. Students transferring to CSU may need to take additional lower-division courses to meet university requirements in their chosen major for their B.A./B.S. Degree. Consult the catalog of the institution to which you plan to transfer and/or work with a counselor to select appropriate courses. Catalogs are available in the Transfer Center and on the Cabrillo College Transfer and Articulation website.

## CAREER TECHNICAL EDUCATION PROGRAMS (Occupational, Vocational Programs)

Cabrillo College offers programs that lead to Skills Certificates, Certificates of Achievement, and A.S. Degrees. These programs prepare students for immediate employment or job advancement. For a listing of Career Technical Education programs see page 51 of this *Catalog*. For further information see the catalog pages describing the program and contact the individual department offering the program or the Career Planning Center. Students seeking a Career Technical Education certificate or degree should see a counselor to develop an educational plan.

### Skills Certificate

Skills Certificates are awarded to students who acquire a set of career relevant skills through the completion of one or more courses as specified in the college *Catalog*.

### Certificate of Achievement

Certificates of Achievement provide an opportunity to pursue a concentrated course of study in a particular career area. The courses required for individual programs are listed by program name on the following pages. A 2.0 grade point average is required in the area of concentration to receive a Certificate of Achievement. All certificates require completion of an English course selected from the General Education Area A1: Communication and Critical Thinking.

### Associate in Science Degree

The Associate in Science programs usually consist of the core Certificate of Achievement courses, 21 units of General Education requirements, plus suggested electives to total a minimum of 60 units. A 2.0 grade point average for all coursework is required to receive a degree.

## COURSE CLASSIFICATION AND NUMBERING

### 1-99

Courses numbered 1 through 99 are baccalaureate level courses, carrying lower division transfer credit for the California State University (CSU) system. Courses in the 1 through 99 series meet the following criteria:

1. The course is parallel to one offered at a California State University;
2. The course has procedural rigor and treats subject matter at university level.

Note: The University of California follows the UC Transfer Course Agreement with Cabrillo College, located in the ASSIST database ([www.assist.org](http://www.assist.org)), when determining the transferability of Cabrillo College courses to the UC system. UC approved courses are selected from courses in the 1 through 99 series. Cabrillo College indicates the transfer status of each course in both the *Catalog* and *Schedule of Classes*.

### 100-199

Courses numbered 100 through 199 are intended as associate degree level courses, some of which may transfer to four-year schools in certain occupational curricula. Consult a counselor or the four-year university to determine which courses transfer to four-year schools.

### 200-299

Courses numbered 200 through 299 are nontransferable, and are not intended as associate degree level courses. These courses will not count in calculating the GPA for the associate degree.

### 500-599

Courses numbered 500 through 600 are non-credit courses, are nontransferable, and are not recorded on a transcript.

## POLICY STATEMENT—HEALTH OCCUPATIONS

Cabrillo College is committed to achieving equal educational opportunity and full participation for persons with disabilities. It is Cabrillo's policy that no qualified person be excluded from participating in or applying for any college program or activity. Reasonable accommodations will be provided for students with learning, psychological, or physical disabilities. College program selection committees will not make medical determinations regarding whether or not the applicant is disabled. Clear instructions for documentation of disabilities will be distributed to applicants or referrals of the applicant will be made to the Disabled Student Program and Services Office. This policy derives from the College's commitment to nondiscrimination for all persons in employment, access to facilities, and students' programs, activities, and services.

## DEGREES AND CERTIFICATES

	Associate Degree A.A./AS	Certificate of Achievement	Skills Certificate		Associate Degree A.A./AS	Certificate of Achievement	Skills Certificate
<b>Accounting/Finance:</b>				<b>Early Childhood Education:</b>	A.S.		
Accounting	A.S.	Cert		Proficiency in Teaching			Cert
Bookkeeping			SC	ECE Administration			Cert
<b>American Studies</b>	A.A.			Bilingual/Spanish English Teaching			Cert
<b>Anthropology</b>	A.A.			Infant/Toddler Care			Cert
<b>Art History</b>	A.A.			Working W/Diverse Families			Cert
<b>Art-Studio</b>	A.A.			Anti-Bias Curriculum			Cert
<b>Asian Studies</b>	A.A.			ECE Children's Literacy Curriculum			Cert
<b>Astronomy</b>	A.S.			Curriculum Planning			Cert
<b>Bilingual/Bicultural Studies</b>	A.A.			Spanish/English Early Childhood Teaching			SC
<b>Biology</b>	A.A.	A.S.		<b>Economics</b>	A.A.		
<b>Business:</b>				<b>Engineering, General</b>	A.S.		
General Business	A.A.	A.S.	Cert	<b>Engineering Technology:</b>	A.S.	Cert	
<b>Computer Applications/Business Technology:</b>				Architectural Drafting & Design			SC
Computer/Business Applications	A.S.	Cert		Civil/Survey Drafting			SC
Administrative Support			Cert	Computer Aided Drafting & Design			SC
Computer Skills			SC	Computer Animation			SC
Professional Computer Applications			SC	Manufacturing Specialist			SC
<b>Chemistry</b>	A.A.	A.S.		Technology and Trades			SC
<b>Communication Studies</b>	A.A.			<b>English</b>	A.A.		
<b>Computer and Information Systems:</b>				<b>French</b>	A.A.		
<b>Computer Networking and System Administration:</b>	A.S.	Cert		<b>General Educaton</b>			
Cisco Certified Network Associate (CCNA)			SC	CSU General Education Breadth			Cert
Cisco Certified Network Professional (CCNP)			SC	IGETC General Education			Cert
Microsoft System Administration			SC	<b>General Science</b>	A.A.	A.S.	
UNIX/Linux System Administration			SC	<b>Geography</b>	A.A.		
<b>Computer Support Specialist:</b>	A.S.			<b>Geology</b>		A.S.	
Computer Support Specialist Fundamentals			Cert	<b>German</b>	A.A.		
A+ Preparation			SC	<b>Health Science/Community Health</b>	A.A.		
Computer Support Technician 1			SC	<b>History</b>	A.A.		
<b>Computer Science:</b>	A.A.	A.S.		<b>Horticulture:</b>			
C++ Programming			Cert	Alternative Crop Production Methods			SC
Game Programming			SC	Arboriculture			SC
Java Programming			Cert	General Horticulture			SC
Programming			Cert	General Horticulture and Crop Production	A.S.		
Web Programming Fundamentals			SC	Greenhouse and Nursery Management			Cert
<b>Construction and Energy Management:</b>	A.S.	Cert.		Home Horticulture			SC
Building Inspection and Construction Codes	A.S.	Cert		Landscape Horticulture	A.S.	Cert	
Construction Basics			SC	Landscape Construction			SC
Construction Building Inspection and Codes			SC	Landscape Design			SC
Construction Business Management			SC	Landscape Gardener			SC
Construction Career Path			SC	Restoration Landscaping			SC
Construction Electrical Inspection and Codes			SC	<b>Human Services</b>	A.S.		
Construction Project Management			SC	Generalist Practice			Cert
Construction Specialty Inspection and Codes			SC	Drug and Alcohol Studies			SC
Construction Trade			SC	<b>International Studies</b>	A.A.		
<b>Culinary Arts &amp; Hospitality Management</b>	A.S.	Cert		<b>Journalism</b>	A.A.	A.S.	Cert
Entry Level Baking			SC	<b>Liberal Arts &amp; Sciences (Transfer)</b>			
Entry Level Cook			SC	Arts & Humanities	A.A.		
Entry Level Catering			SC	Interdisciplinary Studies	A.A.		
<b>Dance</b>	A.A.			Social Sciences	A.A.		
<b>Dental Hygiene</b>		A.S.		<b>Liberal Arts &amp; Sciences (Non-Transfer)</b>			
Dental Administrative Assistant			SC	Arts & Humanities	A.A.	A.S.	
<b>Digital Management and Career Preparation</b>				Interdisciplinary Studies	A.A.	A.S.	
Prep. for Leadership and Mgt Careers			SC	Social Sciences	A.A.	A.S.	
<b>Digital Media:</b>				<b>Liberal Studies (Elementary Ed.)</b>	A.A.		
Animation			SC	<b>Mathematics</b>	A.A.	A.S.	
Digital Publishing	A.S.	Cert					
Web Development			Cert				
Web Media	A.S.	Cert					
e-Commerce			SC				
Print Media			SC				
Digital Imaging			SC				
Web Production			SC				
Web Publishing			SC				
Screen Media			SC				
Web Design			Cert				
Digital Video			SC				

	Associate Degree A.A./AS	Certificate of Achievement	Skills Certificate
<b>Medical Assistant:</b>	A.S.	Cert	
Medical Administrative Assistant		Cert	
Medical Insurance Specialist	A.S.	Cert	
Phlebotomy Technician			SC
Medical Receptionist			SC
EKG Technician			SC
Electronic Health Records			SC
<b>Music</b>	A.A.		
Music Technology			SC
<b>Nursing</b>		A.S.	
<b>Philosophy</b>	A.A.		
<b>Physical Education</b>	A.A.		
<b>Physics</b>	A.A.	A.S.	
<b>Political Science</b>	A.A.		
<b>Psychology</b>	A.A.		
<b>Public Safety:</b>			
Criminal Justice: Corrections	A.A.	A.S.	
Criminal Justice: Law Enforcement	A.A.	A.S.	
Emergency Medical Technician			SC
Fire Service Management		A.S.	Cert
Fire Technology	A.A.	A.S.	
<b>Radiologic Technology</b>		A.S.	
Venipuncture			SC
<b>Real Estate</b>		A.S.	Cert
<b>Sociology</b>	A.A.		
<b>Spanish</b>	A.A.		
<b>Theatre Arts/Drama</b>	A.A.		
<b>Welding:</b>			
Basic Welding			SC
Advanced Welding			SC
<b>Women's Studies</b>	A.A.		

## Come study with us for an education that will work for you!

Our programs work! A spring 2008 survey showed that those who completed a Cabrillo certificate or degree earned an average annual increase in salary of 94% after completing school. Program information can be found in this Catalog under the program name and on our website, <http://www.cabrillo.edu> then click on "Majors, Degrees and Certificates."

### Building Inspection

see *Construction and Energy Management Department*  
Building Inspector Public Works Inspector

### Construction and Energy Management

see *Construction and Energy Management Department*  
Contractor Project Manager Site Superintendent Estimator

### Culinary Arts and Hospitality Management

see *Culinary Arts/Hospitality Management Department*  
Food Service Manager Cook

### Early Childhood Education

see *Early Childhood Education Department*  
Teacher Caregiver Assistant Teacher Director Supervisor  
Family Childcare Provider Infant Toddler Specialist

### Horticulture

see *Horticulture Department*  
Landscape Maintenance Worker Plant Propagator Nursery Grower  
Greenhouse Grower Landscape Designer Arborist Landscape Contractor  
Cut Flower Grower Horticultural Consultant Restoration Specialist  
Pesticide Applicator

### Human Services

see *Human Services Department*  
Counselor Mental Health Technician Advocate Social Work Assistant  
Community Outreach Worker Case Management Aide Residential Counselor  
Probation Officer Eligibility and Outreach Worker Gerontology Aide  
Drug and Alcohol Counselor

### Journalism

see *Journalism Department*  
Reporter Writer Editor Digital Photography Photo Journalist  
Page Designer Prepress Publication TV News Correspondent/Anchor  
Camera Operator Multimedia Editor and Web Designer Video Editor Radio  
Correspondent Advertising Sales Manager

### Welding

see *Welding Department*  
AWS-SCWI Senior Certified Welding Inspector  
AWS-CWE Certified Welding Educator

## BUSINESS & COMPUTERS

### Accounting/Finance

see *Accounting Department*  
Bookkeeping Auditing Tax/Payroll Accounting General Office  
Self Employment

### Administrative Support

see *Computer Applications/Business Technology Department*  
Office Assistant Receptionist General Office

### Animation

see *Digital Media Department*  
Animation Illustration Character Design Advertising Web Design

### Architectural Drafting & Design

see *Engineering Technology Department*  
Architectural Designer/Draftsperson Architectural Intern

### Business

see *Business Department*  
Entry level and job advancement to middle management

### Civil Survey Drafting & Design

see *Engineering Technology Department*  
Civil Survey Designer/Draftsperson Civil Survey Assistant

### Computer Aided Drafting & Design

see *Engineering Technology Department*  
CAD Operator CAD/CAM Technician

### Computer Animation

see *Engineering Technology Department*  
Animation Artist 3-D Designer/Draftsperson Computer Animation Tech  
Solid Modeler

### Computer/Business Applications

see *Computer Applications/Business Technology Department*  
Administrative Assistant Customer Service Office Administration

### Computer Networking and System Administration

see *Computer and Information Systems Department*  
Network Administrator Network Technician System Administrator  
Information Security Specialist

### Computer Science

see *Computer Science Department*  
Computer Programming: C++, Java, Perl Computer Engineering  
Computer Science Software Engineering Game Programming

### Computer Support Specialist

see *Computer and Information Systems Department*  
Technical Support Specialist A+ Certification Hardware and Software Support

### Digital Imaging

see *Digital Media Department*  
Digital Illustrator Digital Photo Editor

### Digital Publishing

see *Digital Media Department*  
Digital Publishing Page Layout Illustrator Graphic Designer  
Digital Photographer

### Digital Video

see *Digital Media Department*  
Digital Video Producer and Editor

### eCommerce

see *Digital Media Department*  
eCommerce Site Designer and Producer

### Engineering Technology

see *Engineering Technology Department*  
Engineering Technician Circuit Designer Drafting and Design Tech  
Manufacturing Tech

### Manufacturing Specialist

see *Engineering Technology Department*  
Electronics Assembler Manufacturing Specialist

### Print Media

see *Digital Media Department*  
Graphic Production Artist Graphic Designer

**Real Estate***see Real Estate Department*

Sales Person Appraisal Property Management Mortgage Company

**Screen Media***see Digital Media Department*

Interactive Media Designer Motion Graphics Designer Motion Media Producer

**Web Design***see Digital Media Department*

Web Designer Web Production Artist Information Architect

**Web Development***see Digital Media Department*

HTML Coder, Website Developer

**Web Media***see Digital Media Department*Web Designer Web Producer 2D Animator Multimedia Producer  
Game Designer**Web Production***see Digital Media Department*

Web Production Artist HTML Coder

**Web Publishing***see Digital Media Department*

Web Programmer Website Producer

**HEALTH OCCUPATIONS****Associate Degree Nursing (RN)***see Nursing Department*

Registered Nurse

**Dental Hygiene (RDH)***see Dental Hygiene Department*

Dental Hygienist

**EKG Technician***see Medical Assistant Department*

Clinical or Hospital Setting

**Fluoroscopy***see Radiologic Technology Department*

Fluoroscopist

**Magnetic Resonance Imaging***see Radiologic Technology Department*

Magnetic Resonance Imaging Technologist

**Mammography***see Radiologic Technology Department*

Mammography Technologist

**Medical Administrative Assistant***see Medical Assistant Department*Medical Biller Medical Office Manager Medical Assistant Accounts Receivable  
Manager Medical Accounting Patient Services Representative Collections  
Representative**Medical Assistant***see Medical Assistant Department*Unit Coordinator Medical Records Medical Assistant  
Clinical Medical Assistant Patient Service Representative**Medical Insurance Specialist***see Medical Assistant Department*

Billing Claims Processor Claims Auditing CPT Coding

**Medical Receptionist***see Medical Assistant Department*

Clinic, office or hospital based receptionist

**Phlebotomy Technician***see Medical Assistant Department*

Clinical or Hospital Setting

**Radiologic Technology***see Radiologic Technology Department*

Radiologic Technologist

**PUBLIC SAFETY****Criminal Justice***see Criminal Justice Department*

Law Enforcement Corrections Community Service Officer

**Emergency Medical Technician (EMT)***see Fire Technology Department*

EMT Certification EMT Recertification

**Fire Service Management***see Fire Technology Department*

Fire Service Management

**Fire Technology***see Fire Technology Department*

Fire Fighter Fire Prevention

