2018 - 2019
CATALOG ADDENDUM
SPRING 2019
January 18, 2019

6500 Soquel Drive
Aptos, CA 95003
(831) 479-6100
www.cabrillo.edu
This catalog addendum consists of new and revised courses adopted since the 2018-2019 Catalog was published. It also includes corrections to the 2018-2019 Catalog. These additions, revisions, and corrections replace what is printed in the current Catalog and are effective as of Spring 2019.

<table>
<thead>
<tr>
<th>Course / Program Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 54B Income Tax II, Corporations</td>
<td>New Course</td>
</tr>
<tr>
<td>CABT 171 Customer Relationship Management Technology I</td>
<td>New Course</td>
</tr>
<tr>
<td>CJ 132 Principled Policing: A Discussion of Procedural Justice and Implicit Bias</td>
<td>New Course</td>
</tr>
<tr>
<td>FT 137 Aquatic Rescue Response Team</td>
<td>New Course</td>
</tr>
<tr>
<td>HS 130 Introduction to Community Health Work</td>
<td>New Course</td>
</tr>
<tr>
<td>HS 131 Community Health Worker Skills</td>
<td>New Course</td>
</tr>
<tr>
<td>CJ 131 Principled Policing: Discussion of Procedural Justice Train the Trainer</td>
<td>Revised Course</td>
</tr>
<tr>
<td>ECE 146 The Child with Special Needs in the Child Care Program</td>
<td>Revised Course</td>
</tr>
<tr>
<td>Sustainable Agricultural Technology A.S.</td>
<td>New Program</td>
</tr>
<tr>
<td>Dental Hygiene A.S. Degree</td>
<td>Revised Program</td>
</tr>
<tr>
<td>Pg 18 - Corrected UCSC Cross Enrollment Link</td>
<td>Information Correction</td>
</tr>
<tr>
<td>Pg 28 &amp; 29 - Provided correct charts</td>
<td>Information Correction</td>
</tr>
<tr>
<td>Pg 26 - Add External Examinations: Advanced Placement paragraphs before AP charts</td>
<td>Information Correction</td>
</tr>
<tr>
<td>Pg 48 - Multiple Associate Degrees updated paragraph</td>
<td>Information Correction</td>
</tr>
<tr>
<td>Pg 50 - Mathematics Competency Requirement updated paragraph</td>
<td>Information Correction</td>
</tr>
<tr>
<td>Pg 55 - Scholastic Honors at Graduation updated paragraph &amp; added Certificates of Competency and Completion to the list of achievable programs</td>
<td>Information Correction</td>
</tr>
<tr>
<td>Page</td>
<td>Overview</td>
</tr>
<tr>
<td>------</td>
<td>--------------------------------------------------------------------------</td>
</tr>
<tr>
<td>57</td>
<td>Area D SOC 47 changes to SOC 12</td>
</tr>
<tr>
<td>61</td>
<td>Art Studio certificates – Added Digital Fabrication and Making</td>
</tr>
<tr>
<td>72</td>
<td>ANTHR 13 – Add Transfers to CSU, UC.</td>
</tr>
<tr>
<td>89</td>
<td>ART 31A Add C-ID ARTS 210</td>
</tr>
<tr>
<td>105</td>
<td>BUS 9 Add C-ID MATH 110</td>
</tr>
<tr>
<td>115</td>
<td>Correct total units for CABT required courses (24)</td>
</tr>
<tr>
<td>147</td>
<td>NUTR 20 Add C-ID NUTR 110</td>
</tr>
<tr>
<td>162</td>
<td>Preparation for Leadership and Management Careers Certificate of Competency - correct title of DMCP 401 to Foundation Course</td>
</tr>
<tr>
<td>164</td>
<td>Digital Media – Degrees and Certificates, remove all sentences in this paragraph except the first sentence.</td>
</tr>
<tr>
<td>170</td>
<td>DM 56 &amp; DM 57 Correct units to 1.5.</td>
</tr>
<tr>
<td>187</td>
<td>ENGR 40 – update Transfer Credit line to read Transfers to CSU, UC. ENGR 45 - Add C-ID ENGR 140B</td>
</tr>
<tr>
<td>190</td>
<td>ETECH 40 update Transfer Credit line to read Transfers to CSU, UC. Technology and Trades Skills Certificate – update total units to 12-16</td>
</tr>
<tr>
<td>191</td>
<td>ETECH 43 updated Transfer Credit line to read Transfers to CSU, UC.</td>
</tr>
<tr>
<td>200</td>
<td>ESL 1A Update Transfer Credit line to read Transfers to CSU, UC. ESL 1S update Transfer Credit line to read Transfers to CSU.</td>
</tr>
<tr>
<td>206</td>
<td>General Science – Model Program for General Science update 2nd sentence to read “at least 30 units”</td>
</tr>
<tr>
<td>215</td>
<td>Remove HIST 18A/B (inactive) from Note “Choose one to two additional courses.....”</td>
</tr>
<tr>
<td>219</td>
<td>Fix titles on HIST 27A/B to read Native American History and Literature I/II</td>
</tr>
<tr>
<td>289</td>
<td>For PHYS 4A Prerequisite - Add “or an “A” in MATH 5B”</td>
</tr>
<tr>
<td>304</td>
<td>FT 4 Add C-ID FIRE 130X</td>
</tr>
<tr>
<td>318</td>
<td>Add SOC 11 to LIST A of Sociology A.A.-T degree</td>
</tr>
<tr>
<td>330</td>
<td>TA 45 – Update Transfer Credit line to read Transfers to CSU, UC.</td>
</tr>
</tbody>
</table>
NEW COURSES

ACCOUNTING

ACCT 54B  Income Tax II, Corporations
4 units; 4 hours Lecture
Repeatability: May be taken a total of 1 time.
Teaches current federal income tax law as it relates to corporations. Topics include tax law, electronic research and methodologies, and the use of technology for the preparation of business tax returns. May be offered in a Distance-Learning Format.
Transfer Credit: CSU.

COMPUTER APPLICATIONS/BUSINESS TECHNOLOGY

CABT 171  Customer Relationship Management Technology I
2 units; 2 hours Lecture, 1 hour Laboratory
Repeatability: May be taken a total of 1 time.
Teaches technical and problem-solving skills used by sales representatives, administrators, and office administrative assistants in current customer relationship management (CRM) technology, including data management, sales and marketing, security practices, reporting, and automated workflow. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering. May be offered in a Distance-Learning Format.
Transfer Credit: Non-transferable.

CRIMINAL JUSTICE

CJ 132  Principled Policing: A Discussion of Procedural Justice and Implicit Bias
.5 units; .44 hours Lecture, 1.33 hours Laboratory
Prerequisite: Must attend a 24 OR 32-hour Train the Trainer course from an approved presenter or the Principled Policing: A Discussion of Procedural Justice and Implicit Bias Course
Repeatability: May be taken a total of 1 time.
Melds the principles of Procedural Justice and Implicit Bias in order to create a broad awareness of these two important concepts. Law enforcement can improve trust and relationships between law enforcement agencies and their communities by using these principles to evaluate their policies, procedures and training within their departments. In addition, developing an understanding of these two concepts will enable law enforcement to improve safety and well-being for the public and law enforcement alike.
Transfer Credit: Non-transferable.
FIRE TECHNOLOGY

FT 137  Aquatic Rescue Response Team
1 unit; .67 hours Lecture, 1.55 hours Laboratory
Repeatability: May be taken a total of 1 time.
Trains students on drowning prevention, environmental conditions, basic rescue techniques and procedures, communication methods set by California State Fire Training.
Transfer Credit: Non-transferable.

HEALTH SCIENCE

HS 130  Introduction to Community Health Work
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Introduces the field of Community Health Education and the roles of Community Health Workers exploring a variety of issues and skills pertinent to the profession.
Transfer Credit: Non-transferable.

HS 131  Community Health Worker Skills
2 units; 2 hours Lecture
Repeatability: May be taken a total of 1 time.
Introduces skills necessary for optimum performance as a Community Health Worker (CHW). Explores issues and responses to common issues CHW's encounter in the field.
Transfer Credit: Non-transferable.

REVISED COURSES

CRIMINAL JUSTICE

CJ 131  Principled Policing: Discussion of Procedural Justice Train the Trainer
.5 units; .44 hours Lecture, .88 hours Laboratory
Prerequisite: 1. Commission on Police Officer Standards & Training (POST) certified basic law enforcement academy diploma or equivalent as determined by the Dean of Academy Instruction. NOTE: Approval of equivalent training is not a guarantee state regulatory or licensing agencies will also grant equivalency.
2. Prior to beginning this course students must already be familiar with, and be able to demonstrate all of the skills listed below. These will not be taught in the course; rather, they will be the starting point for advanced officer training that builds upon them. These minimum knowledge and skill levels are regarding:
  • Effective verbal communication used in policing
  • Effective non-verbal communication used in policing
Repeatability: May be taken a total of 1 time.

Provides training to develop a spirit of teamwork between law enforcement agencies and community members. This sense of cooperation leads to a reduction in criminal activity and an overall improved quality of life within the community. This course includes facilitation skills training for instructors.

*Transfer Credit*: Non-transferable.

---

**ECE**

**ECE 146  The Child with Special Needs in the Child Care Program**

- **Update to 2018-2019 Catalog**
- **Updated units, hours, and course description**

2 – 3 units; 2 - 3 hours Lecture

Prerequisite: ECE 131 or ECE 31

Recommended Preparation: For sections taught in an English Format: ENGL 100 or ESL 100 or above, and Reading 100

Examines issues and practices that support all children, teachers, and families in creating an inclusive program for children with special needs. May be offered in Spanish or in a Bilingual Format.

*Transfer Credit*: Non-transferable
Sustainable Agriculture Technology A.S. Degree

The Sustainable Agriculture Technology degree is designed to prepare students for a career in the emerging agriculture technology industry. The course of study will cover all aspects of technology and horticultural study including hydroponics, aquaponics, organic substrate production, GIS/GPS, water and energy conservation, and computing and connecting technology tools and data streams on farm. Students will finish this degree program prepared for careers as precision agriculture technicians, greenhouse managers, hydroponic growers, farmers, ranch or operations managers, first line supervisors for agriculture and horticulture industries, biological technicians, among others. This program is designed for those wishing to go directly into employment in the agriculture and horticulture industries; therefore, students wishing to transfer courses should consult a counselor or consider the AS-T degree in Agriculture Plant Science.

Learning Outcomes

1. Strong understanding of the plant science fundamentals of soil, plant, and water relationships to produce plants in a variety of high tech production systems.
2. Understanding of how to use technology tools to increase sustainability and production.
3. Ability to use, manage, and manipulate data and data streams from technology tools to inform management decisions.

<table>
<thead>
<tr>
<th>General Education</th>
<th>21 Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Core Courses</td>
<td>26 Units</td>
</tr>
<tr>
<td>HORT 1A</td>
<td>Basic Horticulture ........................................4</td>
</tr>
<tr>
<td>HORT 1B</td>
<td>Basic Horticulture : Crop Production ....................4</td>
</tr>
<tr>
<td>HORT 2</td>
<td>Soil Science and Management ................................4</td>
</tr>
<tr>
<td>HORT 52</td>
<td>Greenhouse Design and Operation ...........................3</td>
</tr>
<tr>
<td>HORT 58</td>
<td>Irrigation Systems and Design Management .................3</td>
</tr>
<tr>
<td>HORT 71</td>
<td>Organic Food Production .................................4</td>
</tr>
<tr>
<td>HORT 72</td>
<td>Organic Food Production II .................................1</td>
</tr>
<tr>
<td>HORT 125</td>
<td>Hydroponic and Substrate Production ......................3</td>
</tr>
<tr>
<td>And</td>
<td></td>
</tr>
<tr>
<td>Path I Breadth of Ag Tech</td>
<td></td>
</tr>
<tr>
<td>ENGR 3</td>
<td>How Things Work .............................................3</td>
</tr>
<tr>
<td>GEOG17</td>
<td>Introduction to Geographic Information Systems and Techniques .................................................3</td>
</tr>
<tr>
<td>CIS 71</td>
<td>Information and Communication Technology Essentials .........................................................4</td>
</tr>
<tr>
<td>CABT 41</td>
<td>Excel ...................................................................3</td>
</tr>
<tr>
<td></td>
<td>13 units</td>
</tr>
</tbody>
</table>

or

Path II Computing within Ag Tech

| CIS 1L            | Technology Tools ..........................................2 |
| CIS 15            | Cloud Programming with Python ...........................4 |
| CIS 75            | Fundamentals of Computer Security ......................3 |
| CIS 81            | Computer Network Fundamentals ..........................4 |
|                   | 13 units |

Total Units........................................................................ 60
The Dental Hygiene Program at Cabrillo College is affiliated with the University of the Pacific, Arthur A. Dugoni School of Dentistry, San Francisco. Upon completion of the 2-year program, students are eligible to take the state and national licensing examinations. Program retention is based on a minimum grade of “C” in all courses in the published dental hygiene curriculum. Courses must be taken sequentially.

A dental hygienist is a person who is trained and licensed to provide dental hygiene therapy, expose dental x-rays, and provide preventative services, usually under the supervision of a dentist. The dental hygiene profession demands a high level of ethics, professionalism, critical thinking, and manual dexterity. It is strongly suggested that students meet with an academic counselor to review coursework before applying to the Dental Hygiene Program.

Learning Outcomes:
1. Promote dental health and disease prevention both at chairside and at the community level.
2. Apply ethical, professional, and legal concepts to the provision and/or the support of oral health care services to all persons.

How to Apply
Admission to the Dental Hygiene Program requires a separate and additional process to general college admission. The dental hygiene information and application forms are available online at http://www.cabrillo.edu/academics/dentalhygiene/. General college admission information is available on the Admissions & Records website at http://cabrillo.edu/services/ar/.

Read all material in the application packet and the appropriate sections of the Cabrillo College Catalog about the Associate degree in Dental Hygiene, academic regulations, attendance and graduation requirements. Return the completed dental hygiene application forms by U. S. Postal Service Certified Mail and Return Receipt to the Dental Hygiene Program. See the Dental Hygiene How to Apply web page at http://www.cabrillo.edu/academics/dentalhygiene/.

Applications will be considered if all prerequisites are completed and the student’s files are complete. Students are responsible for submitting a complete application to the Dental Hygiene Program, which must be sent by U.S. Postal Service Certified Mail. It is the responsibility of the applicant to inform the Dental Hygiene Department of any change in contact information including email address, physical address, and telephone number. Applications are accepted throughout the year. There is no application deadline date.

A completed application includes:
1. Dental Hygiene application form,
2. Minimum Physical and Non Physical Standards form,
3. Transcripts documenting ALL completed college coursework
   • Cabrillo College courses only: Print one (1) WebAdvisor unofficial transcript.
   • ALL other colleges/universities attended: One (1) sealed official transcript.

Acceptance to the waiting list is based on:
1. Completed application as outlined above,
2. Receipt of complete application U. S. Postal Service Certified Mail and Return Receipt requested,
3. Completion of all science prerequisites with a GPA of 2.7 or better,
4. Completion of English prerequisite with a grade of C or better.

Acceptance to begin DH program courses is based on:
1. Documentation of a high school diploma or the recognized equivalent,
2. Completion of the following Additional Graduation Requirements with grades of C or better: COMM 1 or COMM 1H or COMM 2, PSYCH 1 or PSYCH 1H, NUTR 20, SOC 1 or SOC 1H or SOC 2 or SOC 2H.

Health Screening and Clinical Compliance Requirements
To comply with state and local regulations for health care providers, students enrolled in the Cabrillo College Dental Hygiene Program are required to meet health screening and clinical compliance according to program guidelines, including vaccination and drug testing requirements and to provide documentation thereof. Students are also required to complete criminal background checks and drug screening, and may be denied access to clinical facilities based on the results.

Prerequisites

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIO 4 Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>BIO 5 Human Physiology</td>
<td>4</td>
</tr>
<tr>
<td>BIO 6 Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 30B Introductory Organic Chemistry and Biochemistry for Health Occupations</td>
<td>4</td>
</tr>
<tr>
<td>ENGL 1A/1AH/1AMC/1AMCH</td>
<td>3</td>
</tr>
<tr>
<td>MATH 152, or MATH 152A and MATH 152B or MATH 142 or MATH 142A and MATH 142B or equivalent is a prerequisite for CHEM 30A and CHEM 32. CHEM 30A is a prerequisite for CHEM 30B, BIO 5, and BIO 6. These prerequisites may also be used to satisfy appropriate general education areas.</td>
<td></td>
</tr>
</tbody>
</table>

It is required that all science prerequisites be completed within the last six (6) years. Applicants are permitted to repeat prerequisites for a better grade provided the course was completed more than six (6) years ago. Admissions criteria are currently under review and subject to change.

The DH program follows the academic policies and procedures listed in the Cabrillo College Catalog and DH Student Policy Handbook.

Core Courses

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>DH 7 Head and Neck Anatomy and Embryology</td>
<td>2</td>
</tr>
<tr>
<td>DH 160 Oral Health Education..........................</td>
<td>2</td>
</tr>
<tr>
<td>DH 161 Preparation for Dental Hygiene Clinic ..........</td>
<td>0.5</td>
</tr>
<tr>
<td>DH 162A Patient Assessment I ................................</td>
<td>2.5</td>
</tr>
<tr>
<td>DH 162B Patient Assessment II ................................</td>
<td>3</td>
</tr>
<tr>
<td>DH 163A Dental Radiology ................................</td>
<td>3</td>
</tr>
<tr>
<td>DH 163B Dental Radiographic Interpretation and Case Studies ................................</td>
<td>1</td>
</tr>
<tr>
<td>DH 164 Dental Materials ................................</td>
<td>2</td>
</tr>
<tr>
<td>DH 170 Tooth Morphology, Oral Histology, and Oral Embryology ................................</td>
<td>2</td>
</tr>
<tr>
<td>DH 171 Introduction to Clinical Dental Hygiene ..........</td>
<td>6</td>
</tr>
<tr>
<td>DH 173 Clinical Dental Hygiene I ..........................</td>
<td>6.5</td>
</tr>
<tr>
<td>DH 174 Periodontics .......................................</td>
<td>2</td>
</tr>
<tr>
<td>DH 180 Oral Pathology ......................................</td>
<td>2</td>
</tr>
<tr>
<td>DH 181 Clinical Dental Hygiene II ............................</td>
<td>8.5</td>
</tr>
<tr>
<td>DH 182A Advanced Case Studies ................................</td>
<td>1</td>
</tr>
<tr>
<td>DH 183 Clinical Dental Hygiene III ..........................</td>
<td>6</td>
</tr>
<tr>
<td>DH 184A Pain Management I ..................................</td>
<td>2</td>
</tr>
<tr>
<td>DH 184B Pain Management II ..................................</td>
<td>1</td>
</tr>
<tr>
<td>DH 186A Community Oral Health and Research ...............</td>
<td>2</td>
</tr>
<tr>
<td>DH 186B Community Oral Health and Case Studies ..........</td>
<td>1</td>
</tr>
<tr>
<td>DH 187 Dental Hygiene Law and Ethics .......................</td>
<td>2</td>
</tr>
</tbody>
</table>

Additional Graduation Requirements

<table>
<thead>
<tr>
<th>Additional Graduation Requirements</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMM 1 Public Speaking ................</td>
<td>3</td>
</tr>
</tbody>
</table>
or
COMM 1H  Honors Public Speaking .................................. 3
or
COMM 2  Group Discussion............................................. 3
PSYCH 1  General Psychology............................................ 3
or
PSYCH 1H  Honors General Psychology ......................... 3
NUTR 20  Nutrition ....................................................... 3
SOC 1  Introduction to Sociology:
Understanding Society............................................... 3
or SOC 1H  Honors Introduction to Sociology:
Understanding Society............................................... 3
or SOC 2  *Contemporary Social Problems ....................... 3
or SOC 2H  *Honors Contemporary Social Problems ........ 3

*SOC 2/2H meets the Multicultural Studies Requirement for graduation. Please note that the above courses may also be used to satisfy appropriate general education areas.

NOTE: Other courses highly recommended include: DH 455 Dental Terminology, MATH 12 Elementary Statistics, ENGL 2 Composition and Critical Thinking, and have dental office experience prior to entering the DH Program.

General Education

This A.S. Degree requires completion of a 21-unit general education pattern (see Cabrillo College Catalog under Associate in Science Degree or the A.S. Degree worksheets available in Counseling or on the Transfer and Articulation website). Completing the program Prerequisites and Additional Graduation Requirements will meet most areas of the A.S. Degree GE pattern.

Due to the rigorous academic nature of the Dental Hygiene Program it is advisable to complete the general education requirements for the Associate Degree, before entering the program.

A Bachelor of Science/Bachelor of Arts Degree from a regionally accredited college or university will satisfy all general education and competency requirements for Cabrillo's non-transfer A.A. and A.S. degrees, with the exception of the multicultural requirement and program specific graduation requirements.

Mathematics Competency Requirement

The A.S. 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.

Multicultural Requirement

An approved multicultural course is required for graduation. This course may be double counted with general education or other program graduation requirements. Courses taken at other regionally accredited colleges can be used when approved by a Cabrillo Counselor.

Associate in Science Degree in Dental Hygiene

General Education Courses ............................................. 21
Core Courses ........................................................................ 58
Total Units ............................................................................ 79

Plus approved prerequisite units. See above for information on prerequisites.


• Instructors are not responsible to inform parents when classes are canceled at the last minute or when the class ends prior to the appointed time.

Rights of Access:

Under Section 49061 of the Education Code, parents of community college students do not have a right of access to their children’s student records, regardless of whether the student is under the age of 18. Also, under federal law Section 1232g of Title 20 of the United States Code, there is a general right of parental access to student records, but not for college students, regardless of age. In accordance with this regulation, a student’s college record (including their Cabrillo transcript) will be released to the parents only with the written consent of the minor student.

Students can request official transcripts online and/or view on WebAdvisor.

OUT-OF-STATE STUDENTS

Out-of-state applicants may be admitted to the College on the same basis as California residents except that they will be required to pay tuition prescribed by the Governing Board to cover the costs of instruction. After an adult student who is eligible to be a California resident has been present in California and has manifested clear intent to become a California resident for at least one year and one day prior to the first day of the term, he/she may apply for reclassification as a California resident. State law requires consideration of financial independence for students seeking reclassification.

RESIDENCY REQUIREMENTS

All students not meeting the requirements below will be classified as “non-residents,” subject to nonresident tuition and enrollment fees. Students shall receive resident student classification if they qualify under one of the following conditions:

1. If the student (age 18) and the student’s parent or legal guardian have resided in California for at least one year and one day prior to the beginning of the semester, and can prove California residency by providing documents such as California tax returns or a California driver’s license to confirm that date.

2. If the student (19 or over) has resided in California for at least one year and one day prior to the beginning of the semester, and can prove California residency by providing documents such as California tax returns or a California driver’s license to confirm that date.

3. If the student is under 18 years of age and his/her parent or legal guardian has resided in California for at least one year and one day prior to the beginning of the semester, and can prove California residency by providing documents such as California tax returns or a California driver’s license to confirm that date.

In addition, if the student is not a United States citizen, or permanent resident, or on a visa that allows the student to establish California residency, then the student must provide verification that he/she has applied for residency with the United States Citizenship and Immigration Services (USCIS) at least one year and one day prior to the beginning of the semester.

Beginning January 1, 2002, AB 540 required that certain nonresident students who have completed three years of high school in California and received a high school diploma or equivalent, be exempted from paying nonresident tuition.

CONFIDENTIALITY STATEMENT

Under Section 49061 of the Education Code, parents of community college students do not have a right of access to their children’s student records, regardless of whether the student is under the age of 18. Also, under federal law (Section 1232g of Title 20 of the United States Code), there is a general right of parental access to student records, but not for college students, regardless of age.

CALIFORNIA RESIDENCY STATUS CHANGE

Students who have been out-of-state residents must submit a new residency statement in order to change their status. Residency documents should be submitted to Admissions & Records the semester prior to change of status. Out-of-state residency will not be changed automatically. State law requires consideration of financial independence for students seeking reclassification. For more information, please refer to the Admissions & Records website at www.cabrillo.edu.

SPECIAL ADMISSIONS PROCEDURES

Certain programs require special admissions, and students must follow those admissions procedures following admission to the college. Such programs include Dental Hygiene, Nursing, and Radiologic Technology. Other special admissions are required for cohort studies, such as ACE, AMAP, Honors, Puente, and STARS. Students admitted to any specialized programs must comply with program-specific rules and regulations as set forth in their program materials and handbooks. For more information, see the specific details for the respective programs in the course listings section of the Catalog.

CROSS ENROLLMENT*

UCSC AND CSU MONTEREY BAY

Cabrillo students may cross enroll at the University of California, Santa Cruz (UCSC) and California State University, Monterey Bay (CSU Monterey Bay). Students may take one course. Fees are set by the State Legislature and are subject to change. Enrollment will be on a space available basis. To meet eligibility requirements Cabrillo College students need to:

• have completed at least one term (as a matriculated student) at Cabrillo
• be simultaneously enrolled for at least 6 units at Cabrillo
• have earned at least a 2.0 grade point average at Cabrillo
• have paid appropriate fees at Cabrillo
• have completed appropriate academic preparation as determined by the host campus
• be a California resident (pay California resident fees).

Applications for cross enrollment for CSUMB available at: csumb.edu/planning/take-class-uc-or-community-college and for UCSC at: https://registrar.ucsc.edu/catalog/undergrad-acad/index.html#intersegmentalcrossenrollment

*Note: due to impaction, SJSU will no longer accept students for cross-enrollment programs.
“W” Grades

If a student withdraws from a course during the first two weeks of a semester for a full-term course, the course name and number will not appear on the student’s permanent record. Beginning with the third week of a semester, a student who withdraws from a full-term course will receive a “W” grade. The course name and number and this grade will appear on his/her permanent records.

After 75% of the course has elapsed, no “W” will be issued and the student will receive a grade. If a student withdraws from school due to extenuating circumstances such as verified cases of accident, illness, or other circumstances beyond the student’s control, the instructor will use discretion in granting the student an “NP” or “F” grade.

NOTE: In accordance with state regulations, student withdrawals are restricted to a total of two withdrawals per course. The third enrollment must result in a letter grade. Only three attempts to pass a course are allowed.

“MW” Symbol

The “MW” shall be assigned only for students who are members of an active or reserve military service and who receive orders compelling a withdrawal from courses. Upon verification of such orders, the symbol may be assigned at any time after the period established by the Governing Board during which no notation is made for withdrawal. The “MW” shall not be counted in progress probation and dismissal calculations.

Grade Changes

When grade changes are made because of the alleviation policy or authorized repeating of a course, appropriate annotations shall be entered on the student’s permanent record in such a manner that all work remains legible, insuring a true and complete academic history.

Good Standing

A student will be considered in good standing if the overall grade point average is 2.0 or higher. Students who plan to transfer to a four-year college or university or obtain an associate degree must have a cumulative grade point average of 2.0 or higher. Excessive No Pass, Incomplete, and Withdrawal grades will place a student on probation.

Transcript of Cabrillo Work

Students may request an official transcript of his/her record to be prepared by the Admissions & Records Office by submitting a request online, either from the A&R website or through the student’s WebAdvisor account. Two transcripts of the student’s record will be processed without charge. After the first two, there is a charge. Students who need transcripts within three working days pay additional rush fees. Students may print their own registration schedules using WebAdvisor: My Class Schedule. Transcripts will not be provided if there is a delinquent charge on the student’s record.

EXTERNAL EXAMINATIONS:
ADVANCED PLACEMENT (AP)
INTERNATIONAL BACCALAUREATE (IB)
CLEP

Cabrillo College students will receive credit for the following external examinations toward an A.A./A.S. degree: Advanced Placement (AP) examinations given by the College Entrance Examination Board with scores of 3, 4, or 5; International Baccalaureate (IB) tests taken at the HL (High Level) and CLEP scores (see chart below). To use IB to fulfill IGETC requirements, scores must be 5, 6, or 7. Students must send an official copy of the AP, IB or CLEP results to Cabrillo if they are not posted on their official high school transcript. It is the responsibility of the student to see a counselor and request the use of AP, IB or CLEP credit toward a Cabrillo College degree.

To use external examination results for completion of GE requirements for transfer using either the IGETC or CSU GE patterns, the student must request GE Certification from Cabrillo upon transfer. To determine how credits will be used at the four-year university for major preparation, please consult the Catalog of the transfer school or see a Cabrillo College counselor. Duplicate credit will not be granted to students who have external examination scores and take the equivalent college course.

IMPORTANT NOTE: Some universities may accept a score of 3 on an AP exam to meet campus-specific general education or major preparation requirements. A score of 4 or higher is required in some instances.
ADVANCED PLACEMENT EXAM (AP) FOR CSU

<table>
<thead>
<tr>
<th>College Board AP Exam</th>
<th>CSU Units Earned</th>
<th>CSU GE Units Earned</th>
<th>GE Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>6</td>
<td>3</td>
<td>C1 or C2</td>
</tr>
<tr>
<td>Biology</td>
<td>6</td>
<td>4</td>
<td>B2 + B3</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>3</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>6</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Calculus BC/AB subscore</td>
<td>3</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Chemistry*</td>
<td>6</td>
<td>4</td>
<td>B1 + B3</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture</td>
<td>6</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>Comparative Gov't &amp; Politics</td>
<td>3</td>
<td>3</td>
<td>D8</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>3</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>6</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>Computer Science Principles</td>
<td>6</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>English: Language &amp; Comp.</td>
<td>6</td>
<td>3</td>
<td>A2</td>
</tr>
<tr>
<td>Environmental Science**</td>
<td>4</td>
<td>4</td>
<td>B1 + B3</td>
</tr>
<tr>
<td>European History</td>
<td>6</td>
<td>3</td>
<td>C2 or B6</td>
</tr>
<tr>
<td>French: Language &amp; Culture</td>
<td>6</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>German Language &amp; Culture</td>
<td>6</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>Human Geography</td>
<td>3</td>
<td>3</td>
<td>D5</td>
</tr>
<tr>
<td>Italian Language &amp; Culture</td>
<td>6</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>Japanese Language &amp; Culture</td>
<td>6</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>Latin</td>
<td>6</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>3</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>3</td>
<td>3</td>
<td>D2</td>
</tr>
<tr>
<td>Music Theory</td>
<td>6</td>
<td>3</td>
<td>C1 (FA 09³)</td>
</tr>
<tr>
<td>Physics 1</td>
<td>4</td>
<td>4</td>
<td>B1 + B3</td>
</tr>
<tr>
<td>Physics 2</td>
<td>4</td>
<td>4</td>
<td>B1 + B3</td>
</tr>
<tr>
<td>Physics C (electricity/magnetism)</td>
<td>4</td>
<td>4</td>
<td>B1 + B3</td>
</tr>
<tr>
<td>Physics C (mechanics)</td>
<td>4</td>
<td>4</td>
<td>B1 + B3</td>
</tr>
<tr>
<td>Psychology</td>
<td>3</td>
<td>3</td>
<td>D9</td>
</tr>
<tr>
<td>Spanish Language &amp; Culture</td>
<td>6</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>Spanish Literature &amp; Culture</td>
<td>6</td>
<td>3</td>
<td>C2</td>
</tr>
<tr>
<td>Seminar</td>
<td>0</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>Statistics</td>
<td>3</td>
<td>3</td>
<td>B4</td>
</tr>
<tr>
<td>Studio Art 2D/3D/Drawing</td>
<td>3</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>US Gov't &amp; Politics</td>
<td>3</td>
<td>3</td>
<td>D8 + US-2</td>
</tr>
<tr>
<td>U.S. History</td>
<td>6</td>
<td>3</td>
<td>(C2 or D6) + US-1</td>
</tr>
<tr>
<td>World History</td>
<td>6</td>
<td>3</td>
<td>C2 or D6</td>
</tr>
</tbody>
</table>

*If test was taken prior to F'09, 6 units of GE awarded for Cabrillo. AP Physics B exam accepted if taken prior to F'13.
**The Environmental Science exam can clear either B2 or B1 plus B3 through F'09, after that date only B1 + B3.
1. These units count toward admission eligibility. The units may not all apply toward certification of the corresponding GE-Breadth area.
2. Areas of GE-Breadth (A1 through E) are defined in CSU Executive Order 1100. Areas of American Institutions (US-1 thought US-3) are set forth in Sections 1A and 1B of CSU Executive Order 1061.
3. Students seeking certification in GE-Breadth prior to transfer must have passed the test before this date.
4. If a student passes more than one AP exam in calculus or computer science, only one examination may be applied to the baccalaureate within each area. See Note below.
5. If a student passes more than one AP exam in physics, only 6 units of credit may be applied to the baccalaureate, and only 4 units of credit may be applied to a certification in GE-Breadth.
6. Students who pass more than one AP exam in English receive 12 units of credit from the CSU.

Note: Students who take the Calculus BC examination and earn a subscore of 3 or higher on the Calculus AB portion will receive credit for the Calculus AB examination, even if they do not receive a score of 3 or higher on the BC examination (maximum credit awarded is 6 semester units).
### ADVANCED PLACEMENT (AP) EXAM FOR IGETC

<table>
<thead>
<tr>
<th>AP Exam</th>
<th>UC Units Awarded</th>
<th>IGETC Area Fulfilled</th>
<th>Course Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>5.33</td>
<td>3A or 3B**</td>
<td>AH 11</td>
</tr>
<tr>
<td>Biology</td>
<td>5.33</td>
<td>5B and 5C²</td>
<td>BIO 11A</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>2.67</td>
<td>2A</td>
<td>MATH 5A</td>
</tr>
<tr>
<td>Calculus BC</td>
<td>5.33 max for both exams</td>
<td>2A</td>
<td>MATH 5B</td>
</tr>
<tr>
<td>Calculus BC/AB subscore</td>
<td>2.67 see note</td>
<td>2A</td>
<td>MATH 5A</td>
</tr>
<tr>
<td>Chemistry</td>
<td>5.33</td>
<td>5A and 5C²</td>
<td>CHEM 3+3L</td>
</tr>
<tr>
<td>Chinese Language &amp; Culture</td>
<td>5.33</td>
<td>3B + 6A</td>
<td>No Equivalent</td>
</tr>
<tr>
<td>Comparative Gov't</td>
<td>2.67</td>
<td>4H</td>
<td>PS 2</td>
</tr>
<tr>
<td>Computer Science A</td>
<td>2.67</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>2.67 max for both exams</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>English: Language</td>
<td>5.33 max for both exams</td>
<td>1A</td>
<td>ENGL 1A</td>
</tr>
<tr>
<td>English Literature</td>
<td>5.33 max for both exams</td>
<td>1A or 3B**</td>
<td>ENGL 1A or 1B</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>2.67</td>
<td>5A and 5C²</td>
<td>ES 10 + 10L</td>
</tr>
<tr>
<td>European History</td>
<td>5.33</td>
<td>3B or 4F**</td>
<td>HIST 4B</td>
</tr>
<tr>
<td>French: Language &amp; Culture</td>
<td>5.33</td>
<td>3B + 6A</td>
<td>FR 3 or 4</td>
</tr>
<tr>
<td>German Language &amp; Culture</td>
<td>5.33</td>
<td>3B + 6A</td>
<td>GRMN 3</td>
</tr>
<tr>
<td>Human Geography</td>
<td>2.67</td>
<td>4E</td>
<td>No Equivalent</td>
</tr>
<tr>
<td>Italian Language &amp; Culture</td>
<td>5.33</td>
<td>3B + 6A</td>
<td>ITAL 3</td>
</tr>
<tr>
<td>Japanese Language &amp; Culture</td>
<td>5.33</td>
<td>3B + 6A</td>
<td>No Equivalent</td>
</tr>
<tr>
<td>Latin: Literature</td>
<td>5.33</td>
<td>3B + 6A</td>
<td>No Equivalent</td>
</tr>
<tr>
<td>Macroeconomics</td>
<td>2.67</td>
<td>4B</td>
<td>ECON 1A</td>
</tr>
<tr>
<td>Microeconomics</td>
<td>2.67</td>
<td>4B</td>
<td>ECON 1B</td>
</tr>
<tr>
<td>Music Theory</td>
<td>5.33</td>
<td>N/A</td>
<td>No Equivalent</td>
</tr>
<tr>
<td>Physics B</td>
<td>5.33</td>
<td>5A and 5C²</td>
<td>PHYS 2A</td>
</tr>
<tr>
<td>Physics I</td>
<td>5.33</td>
<td>5A and 5C²</td>
<td>PHYS 11 or 2A</td>
</tr>
<tr>
<td>Physics 2</td>
<td>5.33</td>
<td>5A and 5C²</td>
<td>PHYS 2B</td>
</tr>
<tr>
<td>Physics C (electricity/magnetism)</td>
<td>2.67</td>
<td>5A and 5C²</td>
<td>PHYS 11</td>
</tr>
<tr>
<td>Physics C (mechanics)</td>
<td>2.67</td>
<td>5A and 5C²</td>
<td>PHYS 11</td>
</tr>
<tr>
<td>Psychology</td>
<td>2.67</td>
<td>4I</td>
<td>PSYCH 1</td>
</tr>
<tr>
<td>Spanish Language &amp; Culture</td>
<td>5.33</td>
<td>3B + 6A</td>
<td>SPAN 3</td>
</tr>
<tr>
<td>Spanish Literature &amp; Culture</td>
<td>5.33</td>
<td>3B + 6A</td>
<td>SPAN 25 or 26</td>
</tr>
<tr>
<td>Seminar</td>
<td>0</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td>Statistics</td>
<td>2.67</td>
<td>2A</td>
<td>MATH 12</td>
</tr>
<tr>
<td>Studio Art 2D/3D/Drawing</td>
<td>5.33 max for all 3 exams</td>
<td>N/A</td>
<td>No Equivalent</td>
</tr>
<tr>
<td>US Gov't &amp; Politics</td>
<td>2.67</td>
<td>4H</td>
<td>PS 1</td>
</tr>
<tr>
<td>U.S. History</td>
<td>5.33</td>
<td>3B or 4F**</td>
<td>HIST 17B</td>
</tr>
<tr>
<td>World History</td>
<td>5.33</td>
<td>3B or 4F**</td>
<td>HIST 2A or 2B</td>
</tr>
</tbody>
</table>

**AP exams may be used in either area regardless of where the certifying CCC's course (discipline) is located.

An acceptable AP score equates to 3 semester units for IGETC Certification purposes.

1. At most UC's additional credit will not be granted if a student takes the equivalent course.
2. AP exams in Biology, Chemistry, Physics 1, 2, or 8: apply 4 semester units toward IGETC certification. For the Environmental Science, Physics C (elec/mag.), Physics C (mech.): only 3 semester units may be applied toward IGETC. Therefore, students who complete these exams will be required to complete an additional 4 semester units to satisfy the minimum required units for IGETC Area 5. For Physics exams – 5.33 UC units maximum awarded for all tests.

Note: Students who take the Calculus BC examination and earn a subscore of 3 or higher on the Calculus AB portion will receive credit for the Calculus AB examination, even if they do not receive a score of 3 or higher on the BC examination (note that the maximum credit awarded by the UC is 5.33 semester units for UC).
ASSOCIATE DEGREES

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 (A.A.) may be in a specific field, or in Liberal Arts and Sciences with an emphasis in Interdisciplinary Studies. In 1998, Cabrillo established two new transferable Associate in Arts Degrees that combine the admissions requirements of either the University of California (UC) or the California State University (CSU) with Cabrillo graduation requirements. Please see the Combined Requirements for the A.A./A.S. and Intersegmental General Education Transfer Curriculum (IGETC) or the Combined Requirements for the A.A./A.S. and California State University General Education.

The Associate in Science Degree (A.S.) 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. 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 A SECOND ASSOCIATE DEGREE

Multiple Associate degrees may be awarded provided the degrees do not have the same name.

To be eligible for multiple Associate degrees at Cabrillo College, a student must satisfactorily complete all the major course requirements with a grade of “C” or better, successfully complete all required general education, and achieve an overall grade point average of 2.0.

Students who have been awarded an Associate degree from Cabrillo College and subsequently want to achieve an Associate Degree for Transfer (A.A.-T/A.S.-T) for a degree with the same name may do so under the following conditions:

1. The student is applying to transfer to a CSU for the following spring or fall term; and
2. The student meets the requirements for the A.A.-T/A.S.-T

The following Cabrillo College degree and general education requirements reflect the Cabrillo Governing Board Policies and Administrative Procedures 4100 and 4025 respectively.

Notes Common to all Non-Transferable Associate in Arts and Associate in Science Degrees below, are based upon 4100.01 and includes the Multicultural Requirement, the Mathematics Competency Requirement, and the Requirements for a Second Associate Degree. The criteria for AP 4025, General Education requirements, is reflected in its entirety in AP 4100.

GOALS AND COMPETENCIES COMMON TO ALL NON-TRANSFERABLE ASSOCIATE DEGREES

GOALS:

A-1: ENGLISH LANGUAGE

Goal: To ensure that Cabrillo graduates read, write, and speak critically and competently. Since 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.
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.

MULTICULTURAL STUDIES REQUIREMENT
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.

MATHMATICS 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 completion of Intermediate Algebra (Math 142 or 152) or equivalent, Algebra 2 or Common Core Integrated Math III at the high school level, or a higher-level mathematics course with a grade of "C" or better. Successful completion must be verified by an official college or high school transcript or by an appropriate score on the Cabrillo mathematics assessment taken prior to February 9, 2019.

MAJOR REQUIREMENTS
The major may be in a specific field or in Liberal Arts and Sciences with an emphasis in Interdisciplinary Studies. Students should see a counselor for help in developing a major program of study.

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

NOTES COMMON TO ALL NON-TRANSFERABLE ASSOCIATE IN ARTS AND ASSOCIATE IN SCIENCE DEGREES:
• Sixty (60) degree-applicable units (courses numbered 1-199) are required for completion of the degree.
• All courses that count toward the Associate Degree major or area of emphasis must be “satisfactorily completed” with grades of A, B, C or P (pass). Courses that count toward the Math and English competencies must be completed with a “C” or better. All degree requirements, including general education, must be completed with an overall grade point average of 2.0 or better. Courses may be used to satisfy both the major and general education requirements. The units will be counted only once for the degree.
• 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.
• A B.A./B.S. degree from a U.S. regionally accredited college or university will satisfy all general education and competency requirements for Cabrillo’s non-transfer A.A. and A.S. degrees, with the exception of the Multicultural Requirement, and program specific graduation requirements.

REQUIREMENTS FOR THE NON-TRANSFERABLE ASSOCIATE IN ARTS (A.A.) DEGREE

General Education Requirements
30 units:

Area A: English Language, Communication and Critical Thinking
30 units:

A-1: English Language
Select 3 units from:
English 1A, 1AH, #1AMC, #1AMCH Must be completed with a “C” or better.

A-2: Communication and Critical Thinking
Select 3 units from:
Business 5, 9; Communication Studies 1, 1H, 2, 4, 10; Computer Science 1, 11; English 1B, 1BH, #1BMC, 2, 2H, #2MC, #2MCH, Mathematics (any minimum 3-unit course and excluding 200 to 500-level courses); Philosophy 12, 49; Psychology 2A

Area B: Scientific Inquiry

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

B-2: Life Forms
Select 3 units from:
Anthropology 1, 1H, 1L*; Biology 4*, 5*, 6*, 9A*, 9B* (BIO 1ABC*), 11A*, 11B*, 11C*, 13A, 13AL*, 31; Horticulture 1A*, 1B*; Psychology 4, 4L*

B-3: Laboratory Science

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

Area C: Arts and Humanities

Select 6 units from at least two different departments:
American Sign Language (SLS) 1, 2, 3; Art 2A, 4, 5, 7A, 8A, 24; Art Photography 3, 9A, #15, 25, #35, #35H, 45 (Beg. Fall '16), #55; Art History 10, 11, 11H, 12, 13, 13H, 14, #16, #17, #18, #19, 20A, 20B, #52, 53; Dance 1; English 1B, 1BH, #1BMC, 12A, 12B, 12C, 12E, 12F, #24A, #24B, #27A, #27B, 30A, 30B, 34, #39, #40, #41A, #45, 46A, 46B, 48A, 49A, 49B; French 1, 2, 3, 10; German 1, 2; History #2A, #2B, 4A, 4AH, 4B, 4BH, #27A, #27B; Italian 1, 2, 3, 10; Japanese 1, 2; Music 1, 5, 6, 10, #11A, #11LA, #12, #13A, 17A, 33A, 36, 38, 40, 46, 49, 51A, 58, 77; Philosophy 4, 6, 7, 8, 9, 10, 10H, #14, #15, 16, #17, 18; Spanish 1, 2, 3, 4, 5A, 6A, 6B, 10A, 10B, 16, 17, 25, 26, 30B; Theatre Arts 7, #8, 9, 10A, 13A, 28, 29
ACADEMIC PROGRAM

Academic Program: A collection or series of courses that lead to a degree, certificate, or transfer to another institution of higher education (Title 5, ACCJC program definitions, Title 5 TOP code specifications*). For purposes of college organization, a program is composed of all the degrees and certificates offered by a specific academic department. CTE departments that offer separate programs accredited by different outside accrediting agencies are considered one department that offers multiple programs.

For example, the ECE Program includes an AS and AS-T degree and all certificates offered by the ECE Department. The Spanish Program is the AA degree offered by the World Languages department.

The Medical Assistant department offers two programs: Medical Assistance and Phlebotomy Technician because they are accredited by two separate outside accrediting agencies. Using this definition, there are a few programs that do not belong to a specific academic department (such as the General Science degree, Liberal Arts and Sciences degree or General Education).

Academic Department: A group of faculty in a related field of study or a discipline that offers an academic program. Departments are people. Programs are courses of study, certificates and degrees.

*The Taxonomy of Program (TOP) is a system of numerical codes used at the state level to collect and report information on programs and courses, in different colleges throughout the state, that have similar outcomes.

CAREER TECHNOLOGY EDUCATION PROGRAMS

(Career, Technical, Vocational Programs)

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

Certificate of Competency

Certificates of Competency are awarded to students who acquire a set of education related skills through the completion of two or more courses as specified in the college Catalog. All courses that count toward the Certificate must be “satisfactorily completed” with grades of A, B, C or P (Pass).

Certificate of Completion

Certificates of Completion are awarded to students who acquire a set of career relevant skills through the completion of two or more noncredit courses as specified in the college Catalog. All courses that count toward the Skills Certificate must be “satisfactorily completed” with grades of A, B, C or P (Pass).

Skills Certificate

Skills Certificates are awarded to students who acquire a set of career relevant skills through the completion of two or more noncredit courses as specified in the college Catalog. All courses that count toward the Skills Certificate must be “satisfactorily completed” with grades of A, B, C or P (Pass).

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 certificates are listed by program name on the following pages. All courses that count toward the Certificate of Achievement must be “satisfactorily completed” with grades of A, B, C, or P (Pass).

Associate in Science Degree

The non-transferable 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. All courses that count toward the Math and English competencies and the major or emphasis must be “satisfactorily completed” with grades of A, B, C, or P (Pass).

PETITION FOR GRADUATION

Students planning to petition for graduation should first make an appointment with a counselor to verify that they are eligible for graduation. A student may complete EITHER the major requirements in effect at the time of the student's initial enrollment, if the student has maintained continuous enrollment since then (see Catalog Rights page 37), OR the major requirements in effect at the time the student begins to maintain continuous enrollment, OR the major requirements in effect at the time of the student's graduation. A Petition for Graduation will be completed with a Counselor and requires a half-hour appointment, during the semester in which the student requests to complete the requirements for graduation. Deadlines for filing a petition to graduate are found on the Admissions and Records Website: http://go.cabrillo.edu/calendar. A student must request IGETC or CSU GE-Breadth Certification, via WebAdvisor, Transcripts. See www.cabrillo.edu/services/ar/certification.html for more information.

SCHOLASTIC HONORS AT GRADUATION

“Honorable Mention” shall be noted for those students who graduate with an Associate Degree or who complete a Certificate of Achievement with an overall 3.0 to 3.49 grade point average (GPA).

“Honors” shall designate those students who achieve an overall 3.5 to 3.74 GPA. Those students who graduate with an overall 3.75 to 4.00 GPA shall be recognized as having achieved “High Honors.” “Honors Scholar” will be designated on the transcript if a student is a participant in the Honors Transfer Program, completes 15 units of honors courses with an overall GPA of 3.4, and submits the Application for Designated Honors Scholar to the Honors office. See page 43 for more information on the Honors Transfer Program.
## AREA D: Social Sciences
Select three courses–No more than two courses may be counted from any single department. \( (9\) UNITS)\n
ANTHR #2, #2H, #3, #6, #7, #17, #30; BBS #32; COMM 7, #12; ECE 31, 32; ECON 1A, 1B; ENGL #27A, #27B; GEOG #2, #4, 5; HS 15; HIST #2A, #2B, 4A, 4AH, 4B, 4BH, #6, 9, 11, #14*, #14H*, #15*, #16A, #16B, #16C, 17A*, 17AH*, 17B*, 17BH*, #19B, #19C, #21A*, #21AH*, #21BH*, 24, #27A, #27B, #29A*, #29B*; JOURN 21; PS 1*, 1H*, 2, 3, 5*; PSYCH 1, 1H, 2B, 6, 8, 12, 26, 31, 33; SOC 1, 1H, #2, #2H, #3, #5, #8, #9, 10, 11, 12; WS 1, #2, 11

**Note:** A U.S. History and a U.S. Political Science marked with an * is highly recommended. See NOTE below.

ENGL 27A, 27B, and HIST 2A, 2B, 4A/4AH & 4B/4BH, 27A, 27B can be used in Area C or D, but not both; ECE 31, HS 15, PSYCH 33, SOC 5 and WS 1 may be used in Area D or E, but not both.

**NOTE:** CSU graduation requires fulfillment of a U.S. History, Constitution, and American Ideals requirement. Students are strongly recommended to complete these requirements prior to transfer. Taking one history course and one political science course marked with an asterisk (*) will complete this requirement.

**For Teacher Preparation, it is highly recommended that students complete either History 17A/17AH or Political Science 1/1H**.

*Political Science courses must include California Government–out-of-state courses can be supplemented with 1-unit special studies.

## AREA E: Lifelong Learning and Self-Development
Select 3 units: \( (3\) UNITS)\n
CG 1, 51 (beg F’15); ECE 31, 33; HS 10, 12, 15, 21, 22, 24; NUTR 20, 22 (CAHM 20, 22); *PSYCH 33, 35ABC, 39ABC; SOC 5; WS 1; **DD214 (Military Credit)** Student must have CSU GE Fully Certified. *Students must complete PSYCH 35, or 39 ABC to receive general education credit. Note: ECE 31, HS 15, PSYCH 33, SOC 5 and WS 1 may be used in Area D or E, but not both. Note: PSYCH 37ABC may be used for Area E if taken prior to F’14.

Beg F’13 select ATH, DANCE and KIN Activity courses may also be used to meet Area E if combined with other non-activity Area E units from the CG, NUTR (CAHM), or ECE departments.

**MC: MULTICULTURAL STUDIES REQUIREMENT** (not required for AA-T/AS-T degrees) \( (3\) UNITS)\n
Select one course from any of the above areas that is marked with the # sign or COMM 14, ECE 52, ENGR 98A + 98B, WS 5. This area may be double counted. A course from another college may be used to fulfill this requirement–check with a counselor.

## MAJOR: Specific Discipline or Liberal Arts & Sciences with Emphasis (for students beginning F’08).
Beginning F’14, this emphasis is limited to Interdisciplinary Studies - 6 courses from a combination of Areas A, B4, C & D. **(18-30 UNITS)**

Courses may be used to satisfy both the major/emphasis and general education requirements, but will be counted only once for the total degree units.

*For Students beginning F’10, all courses in the major or emphasis must be completed with a “C” or better.

Students may achieve a major in a specific discipline (18 units in the major), or transferable A.S. degrees in Astronomy, Biology, Chemistry, Computer Science, Engineering, General Science, Geology, Mathematics or Physics (30 units in the major) using the Catalog model program or the transfer requirements on www.assist.org as a guide.
### SKILLS

### CERTIFICATES

<table>
<thead>
<tr>
<th>Accounting/Finance:</th>
<th>Digital Media:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bookkeeping</td>
<td>Animation</td>
</tr>
<tr>
<td>Financial Management</td>
<td>Cinema Arts</td>
</tr>
<tr>
<td><strong>Art History:</strong></td>
<td>Creative Careers: Discovering Self-Directed Pathways</td>
</tr>
<tr>
<td>Creative Careers: Discovering Self-Directed Pathways</td>
<td>Graphic Imaging</td>
</tr>
<tr>
<td><strong>Art Photography:</strong></td>
<td>Motion Graphics</td>
</tr>
<tr>
<td>Creative Careers: Discovering Self-Directed Pathways</td>
<td>Motion Media</td>
</tr>
<tr>
<td>Digital Photography</td>
<td>Publication Design</td>
</tr>
<tr>
<td>Historical and Alternative Photography Processes</td>
<td>Video Production</td>
</tr>
<tr>
<td>Image Literacy: Photography &amp; Moving Images</td>
<td>Web Production</td>
</tr>
<tr>
<td>Moving Image Arts</td>
<td>Website Design</td>
</tr>
<tr>
<td>Traditional Black and White Photography</td>
<td></td>
</tr>
<tr>
<td><strong>Art-Studio:</strong></td>
<td></td>
</tr>
<tr>
<td>Creative Careers: Discovering Self-Directed Pathways</td>
<td>Digital Fabrication and Making</td>
</tr>
<tr>
<td><strong>Business:</strong></td>
<td></td>
</tr>
<tr>
<td>Entrepreneurships/Small Business</td>
<td></td>
</tr>
<tr>
<td><strong>Computer Applications/Business Technology:</strong></td>
<td>Computer Proficiency</td>
</tr>
<tr>
<td>Computer Proficiency</td>
<td></td>
</tr>
<tr>
<td>Office Software</td>
<td></td>
</tr>
<tr>
<td>Social Media</td>
<td></td>
</tr>
<tr>
<td><strong>Computer and Information Systems:</strong></td>
<td></td>
</tr>
<tr>
<td>Cisco Certified Network Associate (CCNA)</td>
<td></td>
</tr>
<tr>
<td>Cybersecurity</td>
<td></td>
</tr>
<tr>
<td>Microsoft System Administration</td>
<td></td>
</tr>
<tr>
<td>UNIX/Linux System Administration</td>
<td></td>
</tr>
<tr>
<td><strong>Computer Support</strong></td>
<td></td>
</tr>
<tr>
<td>A+ Preparation</td>
<td></td>
</tr>
<tr>
<td>Computer Support Technician 1</td>
<td></td>
</tr>
<tr>
<td><strong>Computer Science:</strong></td>
<td></td>
</tr>
<tr>
<td>Game Programming</td>
<td></td>
</tr>
<tr>
<td>Mobile Applications</td>
<td></td>
</tr>
<tr>
<td>Web Programming Fundamentals</td>
<td></td>
</tr>
<tr>
<td><strong>Construction and Energy Management:</strong></td>
<td></td>
</tr>
<tr>
<td>Basic Energy Management</td>
<td></td>
</tr>
<tr>
<td>Building Performance Energy Management</td>
<td></td>
</tr>
<tr>
<td>Construction Basics</td>
<td></td>
</tr>
<tr>
<td>Construction Building Inspection and Codes</td>
<td></td>
</tr>
<tr>
<td>Construction Business Management</td>
<td></td>
</tr>
<tr>
<td>Construction Career Path</td>
<td></td>
</tr>
<tr>
<td>Construction Electrical Inspection and Codes</td>
<td></td>
</tr>
<tr>
<td>Construction Plumbing/Mechanical Inspection &amp; Codes</td>
<td></td>
</tr>
<tr>
<td>Construction Project Management</td>
<td></td>
</tr>
<tr>
<td>Construction Trade</td>
<td></td>
</tr>
<tr>
<td>Solar Derived Energy Management</td>
<td></td>
</tr>
<tr>
<td><strong>Culinary Arts &amp; Hospitality Management:</strong></td>
<td></td>
</tr>
<tr>
<td>Entry Level Baking</td>
<td></td>
</tr>
<tr>
<td>Entry Level Cook</td>
<td></td>
</tr>
<tr>
<td>Entry Level Catering</td>
<td></td>
</tr>
<tr>
<td>Wine and Wine Service</td>
<td></td>
</tr>
<tr>
<td>Wine Tasting Room Management</td>
<td></td>
</tr>
<tr>
<td>World Wines</td>
<td></td>
</tr>
<tr>
<td><strong>Dance:</strong></td>
<td></td>
</tr>
<tr>
<td>Choreographic Studies</td>
<td></td>
</tr>
<tr>
<td>Creative Careers: Discovering Self-Directed Pathways</td>
<td>Music</td>
</tr>
<tr>
<td>Social and Urban Dance</td>
<td>Classical Guitar</td>
</tr>
<tr>
<td><strong>Digital Management and Career Preparation:</strong></td>
<td>Creative Careers: Discovering Self-Directed Pathways</td>
</tr>
<tr>
<td>Foundations in Leadership and Management</td>
<td>Jazz/Pop Voice</td>
</tr>
<tr>
<td></td>
<td>Jazz/Rock Guitar</td>
</tr>
<tr>
<td></td>
<td>Jazz Studies</td>
</tr>
<tr>
<td></td>
<td>Latin American Music</td>
</tr>
<tr>
<td></td>
<td>Music Technology</td>
</tr>
<tr>
<td></td>
<td>Piano</td>
</tr>
<tr>
<td></td>
<td>Voice</td>
</tr>
<tr>
<td><strong>Digital Media:</strong></td>
<td></td>
</tr>
<tr>
<td>Animation</td>
<td></td>
</tr>
<tr>
<td>Cinema Arts</td>
<td></td>
</tr>
<tr>
<td>Creative Careers: Discovering Self-Directed Pathways</td>
<td>Graphic Imaging</td>
</tr>
<tr>
<td><strong>Engineering Technology:</strong></td>
<td>Motion Graphics</td>
</tr>
<tr>
<td>Architecture Drafting &amp; Design</td>
<td>Motion Media</td>
</tr>
<tr>
<td>Civil/Survey Drafting</td>
<td>Publication Design</td>
</tr>
<tr>
<td><strong>Computer Aided Drafting &amp; Design</strong></td>
<td>Video Production</td>
</tr>
<tr>
<td>Computer Animation</td>
<td>Web Production</td>
</tr>
<tr>
<td>Manufacturing Specialist</td>
<td>Website Design</td>
</tr>
<tr>
<td>Technology and Trades</td>
<td></td>
</tr>
<tr>
<td><strong>Horticulture:</strong></td>
<td></td>
</tr>
<tr>
<td>Arboriculture</td>
<td></td>
</tr>
<tr>
<td>General Horticulture</td>
<td></td>
</tr>
<tr>
<td>Greenhouse and Nursery Management</td>
<td></td>
</tr>
<tr>
<td>Landscape Design</td>
<td></td>
</tr>
<tr>
<td>Landscaping</td>
<td></td>
</tr>
<tr>
<td>Permaculture</td>
<td></td>
</tr>
<tr>
<td>Sustainable and Organic Food Production</td>
<td></td>
</tr>
<tr>
<td><strong>Human Services:</strong></td>
<td></td>
</tr>
<tr>
<td>Drug and Alcohol Studies</td>
<td></td>
</tr>
<tr>
<td>Generalist Practice</td>
<td></td>
</tr>
<tr>
<td><strong>Kinesiology:</strong></td>
<td></td>
</tr>
<tr>
<td>Personal Trainer Certification</td>
<td></td>
</tr>
<tr>
<td><strong>Latino/A Studies:</strong></td>
<td></td>
</tr>
<tr>
<td>Latin American and Latino/a Studies</td>
<td></td>
</tr>
<tr>
<td><strong>Medical Assisting:</strong></td>
<td></td>
</tr>
<tr>
<td>Medical Office Receptionist</td>
<td></td>
</tr>
<tr>
<td>Phlebotomy Technician</td>
<td></td>
</tr>
<tr>
<td><strong>Music:</strong></td>
<td></td>
</tr>
<tr>
<td>Classical Guitar</td>
<td></td>
</tr>
<tr>
<td>Creative Careers: Discovering Self-Directed Pathways</td>
<td>Jazz/Pop Voice</td>
</tr>
<tr>
<td>Jazz/Pop Voice</td>
<td></td>
</tr>
<tr>
<td>Jazz/Rock Guitar</td>
<td></td>
</tr>
<tr>
<td>Jazz Studies</td>
<td></td>
</tr>
<tr>
<td>Latin American Music</td>
<td></td>
</tr>
<tr>
<td>Music Technology</td>
<td></td>
</tr>
<tr>
<td>Piano</td>
<td></td>
</tr>
<tr>
<td>Voice</td>
<td></td>
</tr>
<tr>
<td><strong>Radiologic Technology:</strong></td>
<td></td>
</tr>
<tr>
<td>Computed Tomography</td>
<td></td>
</tr>
<tr>
<td>Venipuncture</td>
<td></td>
</tr>
<tr>
<td><strong>Theatre Arts/Drama:</strong></td>
<td></td>
</tr>
<tr>
<td>Creative Careers: Discovering Self-Directed Pathways</td>
<td>Musical Theatre</td>
</tr>
<tr>
<td>Musical Theatre</td>
<td></td>
</tr>
<tr>
<td>Technical Theatre</td>
<td></td>
</tr>
<tr>
<td><strong>Welding:</strong></td>
<td></td>
</tr>
<tr>
<td>Basic Welding</td>
<td></td>
</tr>
<tr>
<td>Advanced Welding</td>
<td></td>
</tr>
</tbody>
</table>
ANTHR 6  Peoples and Cultures of Non-Western Tradition: California
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Surveys the origins and evolution of native Californian cultures and examines the historical and cultural experiences likely to have contributed to the present-day conditions of native communities and individuals.
Transfer Credit: Transfers to CSU; UC.

ANTHR 7  Peoples and Cultures of Non-Western Tradition: North America
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Presents an ethnohistorical and ethnographic survey of the diverse Native American societies and cultures north of Central Mexico. Also examines the history of Native and Non-Native contact with a focus on its effects on both Native American and Euro-American cultures through time.
Transfer Credit: Transfers to CSU; UC.

ANTHR 8  Anthropology of Religion
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Explores and analyzes, from an anthropological perspective, religious traditions in diverse cultural contexts with particular focus on the effects of globalization on religious beliefs and practices. Topics investigated include mythology, magic, witchcraft, sorcery, revitalization movements, shamanism, ethnomedicine, ritual, and the ways in which religion relates to gender and ethnicity within the contemporary world.
Transfer Credit: Transfers to CSU; UC.

ANTHR 13  Forensic Anthropology
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Teaches the application of the science of physical anthropology to the medico-legal process with an emphasis on the identification of skeletal, badly decomposed, or otherwise unidentified human remains. Includes discussion of investigation of crime scenes; how the biological profile of an individual is determined from the skeleton; how skeletal trauma are evaluated; estimation of the interval since death; and how far these assessments can be supported. Case studies of documented individuals are used. While the practical aspects of this field will be the primary focus, attention will also be drawn to the incorporation of anthropological approaches to dealing with death and the handling of human remains.
Transfer Credit: Transfers to CSU, UC.

ANTHR 17  Global Perspectives of Food and Culture
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Examines the social, cultural, and ecological aspects of food, food products, and food resources in a global, historical, and comparative perspective.
Transfer Credit: Transfers to CSU; UC.

ANTHR 19AZ  Special Topics in Anthropology
1 – 3 units; 1 – 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Explores selected topics in anthropology not covered by regular catalog offerings.
Transfer Credit: Transfers to CSU; UC, with conditions: Students must retain a copy of the course outline, the course syllabus and work completed for this course. Credit for this course is contingent upon a review of the course outline and other materials by the UC transfer campus.

ANTHR 26  Archaeological Field School
5 units; 2 hours Lecture, 9 hours Laboratory
Prerequisite: ANTHR 3 or equivalent experience
Repeatability: May be taken a total of 1 time.
Provides students experiential based training in archaeological survey, excavation, and laboratory processing of excavated material. Includes recognition and recordation of historic and prehistoric sites, theory and methods of archaeological processes (stratigraphy, sampling, record keeping, note taking, profiles, mapping), and basic archaeological field laboratory techniques.
Transfer Credit: Transfers to CSU.

ANTHR 30  Gender Across Cultures
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Examines gender diversity and gender roles found in various cultures around the globe using an anthropological perspective. Uses cross cultural comparisons to study and evaluate how economics, history, kinship, religion, politics, language, and other aspects of society and culture reinforce conceptualizations and lived experiences of gender as well as how gender norms influence these institutions. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU; UC.
ART 31A  Painting I
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ART 4.
Hybrid Requisite: Completion of or concurrent enrollment in ART 51L.
Recommended Preparation: ART 2A.
Repeatability: May be taken a total of 1 time.
Studies the practice and theory of painting with emphasis on individuality in painting techniques. Explores experimental methods and process for visual expression. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

ART 31B  Painting II
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ART 31A or equivalent skills.
Hybrid Requisite: Completion of or concurrent enrollment in ART 51L.
Repeatability: May be taken a total of 1 time.
Continues the study of theory and practice of painting from ART 31A with emphasis on individual projects. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

ART 31C  Painting III
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ART 31B or equivalent skills.
Repeatability: May be taken a total of 1 time.
Continues the study of theory and practice of painting from ART 31B with emphasis on defining and developing individual direction and portfolio. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

ART 32A  Printmaking: Etching and Intaglio
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ART 2A.
Hybrid Requisite: Completion of or concurrent enrollment in ART 50L.
Repeatability: May be taken a total of 1 time.
Teaches intaglio printmaking techniques in etching, drypoint, and monoprint. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

ART 32B  Intermediate Intaglio Prints
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ART 32A.
Hybrid Requisite: Completion of or concurrent enrollment in ART 51L.
Repeatability: May be taken a total of 1 time.
Expands the use of intaglio printmaking techniques taught in ART 32 for the creation of original fine art prints. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

ART 33A  Screen Printing/Serigraphy I
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ART 4.
Hybrid Requisite: Completion of or concurrent enrollment in ART 50L.
Repeatability: May be taken a total of 1 time.
Introduces the art and techniques of screen printing-serigraphy including stenciling, printing, care of prints, papers and proper studio use. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

ART 33B  Screen Printing/Serigraphy II
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ART 33A.
Hybrid Requisite: Completion of or concurrent enrollment in ART 51L.
Repeatability: May be taken a total of 1 time.
Continues screen printing-serigraphy techniques including advanced stenciling, registration methods, print care and curating, papers and proper studio use. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

ART 34A  Sculpture: Direct Processes I
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ART 5 or equivalent skills.
Hybrid Requisite: Completion of or concurrent enrollment in ART 50L.
Repeatability: May be taken a total of 1 time.
Introduces beginning level materials and processes in sculpture. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

ART 34B  Sculpture: Direct Processes II
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ART 34A.
Hybrid Requisite: Completion of or concurrent enrollment in ART 51L.
Repeatability: May be taken a total of 1 time.
Continues the study of materials and processes from ART 34A with an increased use of a wide variety of materials, which can be sculpted through direct processes. Emphasizes the application of concepts and presentation. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.
General Business Certificate of Achievement

Learning Outcomes
The Cabrillo College Core Competencies (with an emphasis in the study of Business):

1. Communication: Reading, Writing, Listening, Speaking and/or Conversing
2. Critical Thinking and Information Competency: Analysis, Computation, Research, Problem Solving

General Business Occupational Core Courses (25 Units)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 1A</td>
<td>Financial Accounting</td>
<td>4</td>
</tr>
<tr>
<td>BUS 5</td>
<td>Business Information Systems</td>
<td>4</td>
</tr>
<tr>
<td>BUS 18</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td>BUS 20</td>
<td>Introduction to Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 60</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 82</td>
<td>Marketing Principles</td>
<td>3</td>
</tr>
<tr>
<td>FIN 4</td>
<td>Money Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Required Courses

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABT 157</td>
<td>Business and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 100</td>
<td>Elements of Writing</td>
<td>3</td>
</tr>
<tr>
<td>ESL 100</td>
<td>High Advanced Academic ESL</td>
<td>4-6</td>
</tr>
<tr>
<td>ENGL 1A/1AH/1AMC/1AMCH</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

Total Units 28

Entrepreneurships/Small Business Skills Certificate

Students pursuing the Skills Certificate in Entrepreneurships/Small Business will be learning the fundamentals of small business planning and management. The certificate is designed to prepare students for the challenges they may encounter in establishing and operating a small business. Program Learning Outcomes: Upon completion students will be able to: Critically evaluate business plans and describe the processes required to establish, operate and measure the viability of a small business. Assess and analyze costs and revenues of a small business. Evaluate the challenges they may encounter in establishing and operating a small business. Assess and analyze costs and revenues of a small business. Assess and analyze costs and revenues of a small business.

Learning Outcomes

1. Develop a viable business plan and venture creation plan.
2. Assess market and competitive alternatives and develop Marketing strategies.
3. Develop strategies to create value for both the customers and the organization.
4. Develop and assess financial plans for start-up capital and operations.

Certificate Requirements:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUS 50</td>
<td>Advertising for Small Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 88</td>
<td>Starting and Operating a New Small Business</td>
<td>3</td>
</tr>
<tr>
<td>BUS 89</td>
<td>Starting &amp; Operating an eCommerce Business</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCT 151A</td>
<td>Introduction to Accounting: Bookkeeping Concepts</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>Business Law</td>
<td>4</td>
</tr>
<tr>
<td>or</td>
<td>Business Communications</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>International Business</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Human Relations and Resources</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Marketing Principles</td>
<td>3</td>
</tr>
<tr>
<td>or</td>
<td>Money Management</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units 15 - 17

Business Courses

BUS 5  Business Information Systems

4 units; 3 hours Lecture, 3 hours Laboratory

Repeatability: May be taken a total of 1 time.

Introduces business information systems, the importance of business intelligence in maintaining competitive advantage, ethical issues in business intelligence, concepts of databases and data storage systems, supply chain information systems, customer relationship systems, enterprise resource planning systems, and concepts of eBusiness and wireless technology in business. May be offered in a Distance-Learning Format.

Transfer Credit: Transfers to CSU; UC. C-ID: BUS 140

BUS 9  Business Statistics

3 units; 3 hours Lecture, 1 hour Laboratory

Prerequisite: MATH 142 or MATH 142B or MATH 152 or equivalent skills.

Repeatability: May be taken a total of 1 time.

Teaches the collection and presentation of data; measures of central tendency, dispersion, probability, sampling distributions, statistical inference, regression correlation, index numbers, time series analysis, and forecasting. Excel will be introduced for some statistical tests. May be offered in a Distance-Learning Format.

Transfer Credit: Transfers to CSU; UC, with limits: BUS 9, PSYCH 2A and MATH 12/12H combined: maximum credit-1 course. C-ID MATH 110

BUS 18  Business Law

4 units; 3 hours Lecture, 2 hours Laboratory

Repeatability: May be taken a total of 1 time.

Introduces the United States justice system, covering and relating criminal, civil, employment, torts and contract laws to business operations. History and nature of law, court systems, administrative agencies, crimes, cyber law, the formation and operation of contracts, corporate organization structures, ethical decisions and corporate responsibility and antitrust laws will be covered. May be offered in a Distance-Learning Format.

Transfer Credit: Transfers to CSU; UC. C-ID: BUS 120
3. Use the Internet, a wide variety of current and emerging computer applications and standard business procedures to compute, analyze business performance, and solve problems.

4. Actively assist in implementing general office procedures, including records management

5. Demonstrate high and efficient qualities of self-management and self-awareness in terms of workplace responsibility and productivity.

6. Demonstrate the ability to competently use a wide variety of office equipment, including computers, peripherals, and non-computerized office machines.

**CABT Required Courses (24 units)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABT 31</td>
<td>Microsoft Word</td>
<td>3</td>
</tr>
<tr>
<td>CABT 41</td>
<td>Excel</td>
<td>3</td>
</tr>
<tr>
<td>CABT 100</td>
<td>Business Technology &amp; Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CABT 101</td>
<td>Computer Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>CABT 109</td>
<td>Customer Service and Human Relations</td>
<td>2</td>
</tr>
<tr>
<td>CABT 110A</td>
<td>Computer Keyboarding-Alphabet Keys</td>
<td>0.5</td>
</tr>
<tr>
<td>CABT 110B</td>
<td>Computer Keyboarding-Numbers/Symbols ...</td>
<td>0.5</td>
</tr>
<tr>
<td>CABT 118</td>
<td>Using Microsoft Windows</td>
<td>1</td>
</tr>
<tr>
<td>CABT 156</td>
<td>Writing for the Workplace</td>
<td>3</td>
</tr>
<tr>
<td>CABT 157</td>
<td>Business and Technical Writing</td>
<td>3</td>
</tr>
<tr>
<td>CABT 160</td>
<td>Outlook and Internet for the Workplace</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Units** 24

**Computer Proficiency Skills Certificate**

**Learning Outcomes**

1. Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.

2. Demonstrate entry-level professional computer skills, including the use of word processing, spreadsheet, Internet research, e-mail, simple web page development, and keyboarding.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABT 101</td>
<td>Computer Proficiency</td>
<td>3</td>
</tr>
<tr>
<td>CABT 110A</td>
<td>Computer Keyboarding-Alphabet Keys</td>
<td>0.5</td>
</tr>
<tr>
<td>CABT 110B</td>
<td>Computer Keyboarding-Numbers/Symbols ...</td>
<td>0.5</td>
</tr>
</tbody>
</table>

**Total Units** 4

**Social Media Skills Certificate**

**Learning Outcomes**

1. Productively work as a team member with people of diverse experiences and backgrounds in a workplace environment.

2. Competently design and produce complex electronic and paper-based correspondence documents.

3. Use a variety of current and emerging computer applications.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABT 100</td>
<td>Business Technology &amp; Procedures</td>
<td>3</td>
</tr>
<tr>
<td>CABT 108</td>
<td>Social Media for Business</td>
<td>3.5</td>
</tr>
<tr>
<td>CABT 161</td>
<td>Creating a Simple Web Site</td>
<td>1.5</td>
</tr>
</tbody>
</table>

**Total Units** 8

**Digital Literacy Certificate of Competency**

The certificate of competency in digital literacy is designed to accompany courses that prepare students for the workforce. The noncredit courses needed for completion introduce students to basic computer skills, library research, and web-based resources.

**Learning Outcomes**

Demonstrate and apply basic computer technology skills necessary for the completion of college course work, including basic file management, e-mail, document creation, use of library tools, use of Microsoft Word for document creation, and Internet research. Apply basic technology skills to identify, locate, retrieve, evaluate, and use a variety of reliable information sources, both print and electronic, for specific college courses or course-related work. Understand and employ conventions of acknowledging the work of others.

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABT 400</td>
<td>Digital Literacy I</td>
<td></td>
</tr>
<tr>
<td>or LIBR 400</td>
<td>Digital Literacy I</td>
<td></td>
</tr>
<tr>
<td>and CABT 401</td>
<td>Digital Literacy II</td>
<td></td>
</tr>
<tr>
<td>or LIBR 401</td>
<td>Digital Literacy II</td>
<td></td>
</tr>
</tbody>
</table>

**Beginning Technology Skills Certificate of Competency**

The certificate of completion in beginning technology skills is designed to assist students in courses that prepare them for the workforce. The noncredit courses needed for completion introduce students to beginning computer technology skills in a supportive, self-paced computer lab environment.

**Learning Outcomes**

Apply fundamental and beginning computer technology skills necessary for the basic operation of a printer and a desktop computer, including opening and closing programs, and saving files in a variety of locations. Demonstrate awareness of current human and technology resources available to students in the Aptos and/or Watsonville Computer Technology Center (CTC).

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CABT 405</td>
<td>Beginning Technology Skills I</td>
<td></td>
</tr>
<tr>
<td>and CABT 406</td>
<td>Beginning Technology Skills II</td>
<td></td>
</tr>
</tbody>
</table>
# Skills Certificate in Wine and Wine Service

**Learning Outcomes**

Demonstrate knowledge of viticulture, viniculture, wine faults, world wines, and wine varietals.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAHM 133 Wine Faults</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 172A Wine and Wine Service</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 172B Sensory Evaluation of Wine Varietals</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 174 World Wines</td>
<td>3</td>
</tr>
<tr>
<td>CAHM 176 Basic Winemaking</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 177 Basic Wine Grape Viticulture</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 178 Wine Marketing and Sales</td>
<td>2</td>
</tr>
</tbody>
</table>

**Total Units**: 15

---

# Skills Certificate in Wine Tasting Room Management

**Learning Outcomes**

1. Demonstrate knowledge of fundamental tasting room accounting, sales, marketing, promotion, and wine handling skills.

2. Demonstrate knowledge of enology, wine faults, California wine and wine varietals.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAHM 133 Wine Faults</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 135 Basic Wine Tasting Room Management</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 172B Sensory Evaluation of Wine Varietals</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 176 Basic Winemaking</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 178 Wine Marketing and Sales</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 179 Wines of California</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**: 15

---

# Skills Certificate in World Wines

**Learning Outcomes**

1. Identify world wine growing regions, varietals, labels, laws terroir, and wine production techniques.

2. Assess world wines for their olfactory and flavor notes relative to specific growing regions as well as the geopolitical aspects of the region.

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAHM 132 Spanish Wines</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 134 Italian Wines</td>
<td>3</td>
</tr>
<tr>
<td>CAHM 136 French Wines</td>
<td>3</td>
</tr>
<tr>
<td>CAHM 140 Champagne and French Sparkling Wine</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 172A Wine and Wine Service</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 172B Sensory Evaluation of Wine Varietals</td>
<td>2</td>
</tr>
<tr>
<td>CAHM 174 World Wines</td>
<td>3</td>
</tr>
</tbody>
</table>

**Total Units**: 17

---

# Culinary Arts and Hospitality Management Courses

**NUTR 20 Nutrition**

3 units; 3 hours Lecture

Repeatability: May be taken a total of 1 time.

Examines essential nutrients and how they affect our health throughout life emphasizing and evaluating current developments in nutrition. May be offered in a Distance-Learning Format.

*Transfer Credit: Transfers to CSU; UC.*

**NUTR 22 Nutrition, Health and Wellness**

2 units; 2 hours Lecture

Repeatability: May be taken a total of 1 time.

Examines current trends in nutrition to promote wellness and treat nutrition-related diseases and conditions. May be offered in a Distance-Learning Format.

*Transfer Credit: Transfers to CSU.*

**CAHM 10 Introduction to Hospitality Management**

3 units; 3 hours Lecture

Repeatability: May be taken a total of 1 time.

Introduces the hospitality industry on a global scale: travel and tourism, lodging, foodservice, conventions and expositions, leisure, and recreation. Marketing, human resources, leadership, and management are discussed in the context of hospitality management. Focus on orientation to customer service, industry trends, and career opportunities.

*Transfer Credit: Transfers to CSU.*

**CAHM 50A Introduction to Culinary Arts Basics**

1 unit; 1 hour Lecture

Repeatability: May be taken a total of 1 time.

Explores kitchen safety and sanitation, nutrition, menu planning, food costing, principles of cooking, knife skills, tools and equipment, and techniques for making stocks, sauces, and soups via lecture-based instruction.

*Transfer Credit: Transfers to CSU.*

**CAHM 50B Introduction to Entree Preparation and Service**

1 unit; 1 hour Lecture

Repeatability: May be taken a total of 1 time.

Introduces the principles of restaurant organization; purchasing, storage, cutting, and cooking methods for meat, poultry, fish, shellfish, and vegetarian entrees via lecture-based instruction.

*Transfer Credit: Transfers to CSU.*
DIGITAL MANAGEMENT AND CAREER PREPARATION

Business, English, and Language Arts Division
James Weckler, Division Dean
Division Office, Room 301
Ann Endris, Program Director, anendris@cabrillo.edu
Aptos Counseling: (831) 479-6274 for appointment
Watsonville Counseling: (831) 786-4734
http://www.cabrillo.edu/academics/ace/

Foundations in Leadership and Management
The Academy for College Excellence is a nationally acclaimed program that provides students with professional leadership skills. The sequenced courses offer support, awareness of personal learning styles, and the development of skills and discipline necessary for success. The program is designed to introduce students to leadership and communication skills for professional and academic success.

For more information, contact the Learning Community Center office at (831) 477-3340 or our website at http://www.cabrillo.edu/academics/ace/

Learning Outcomes
The Cabrillo College Core Competencies (with an emphasis in the study of Digital Management/Career Preparation):
1. Communication: Reading, Writing, Listening, Speaking, and/or Conversing
2. Critical Thinking and Information Competency: Analysis, Computation, Research, Problem Solving

Required Courses
DMCP 401 Foundation Course..................................................0
DMCP 10 Foundations of Leadership........................................2
DMCP 111 Introduction to Team Self-Management...................2
DMCP 112 Social Justice Research Methods and Team Management..................................................3
CG 54 Career Planning .................................................................1
ENGL 1A College Composition..................................................3
or ENGL 100 Elements of Writing..............................................3
or ESL 100 High Advanced Academic ESL ................................4-6
Total Units .................................................................................9-12

Preparation for Leadership and Management Careers Certificate of Competency

The Academy for College Excellence is a program designed for students in search of a pathway toward upward mobility. The sequenced courses offer an accelerated path to workforce readiness through support, awareness of personal learning styles, and the development of skills and discipline necessary for success. The program is designed to prepare students for success in high wage, high demand careers that require technological and leadership skills, including management positions. The noncredit program offers affordable, flexible, and repeatable options for learning the foundations of leadership and team self-management.

Learning Outcomes
1. Identify and articulate models of dynamic leadership and principals of team self-management.
2. Demonstrate the four stages of team development with the working styles required at each stage.
3. Develop communication and self-management skills for workforce preparation.
4. Identify personal goals while predicting behavioral distractions that prevent effective self-management and team leadership.

Required Courses
DMCP 401 Foundation Course and DMCP 411 Team Self-Management

Digital Management and Career Preparation Courses

DMCP 10 Foundations of Leadership
2 units; 2 hours Lecture
Repeatability: May be taken a total of 1 time.
Develops insights and behaviors for success in professional and academic contexts, including advanced competencies in teamwork, leadership, interpersonal communication, cooperation, collaboration, self-efficacy, self-discipline, and critical thinking.
Transfer Credit: CSU, UC.

DMCP 111 Introduction to Team Self-Management
2 units; 2 hours Lecture
Hybrid Requisite: Completion of or concurrent enrollment in DMCP 112.
Recommended Preparation: READ 255 or eligibility for READ 205.
Repeatability: May be taken a total of 1 time.
Introduces the theory and practice of team self-management and its application in work organizations: exploring the connections between one's purpose and intentions and one's behaviors, and develops the self-management skills to successfully attain one's goals.
Transfer Credit: Non-transferable.
DMCP 510D  Foundation of Leadership Course Module D
0 units; 16 hours Laboratory
Prerequisite: DMCP 510C.
Repeatability: May be taken a total of 20 times.
Demonstrate professional behaviors that lead to academic and professional career success such as developing self-discipline, leading self-managed teams, and creating effective teams composed of individuals with different working styles.

DMCP 511A  Team Self-Management Module A
0 units; 9 hours Laboratory
Prerequisite: DMCP 510D.
Repeatability: May be taken a total of 20 times.
Introduces the theory and practice of team self-management and its application in work organizations: exploring the connections among purpose, intentions, and behaviors to develop the self-management skills to successfully attain goals.

DMCP 511B  Team Self-Management Module B
0 units; 9 hours Laboratory
Prerequisite: DMCP 511A.
Repeatability: May be taken a total of 20 times.
Introduces the theory and practice of team self-management and its application in work organizations: evaluating task and time management approaches, investigating team development, developing ability to formulate questions from readings, appraising self-talk and developing affirmations, writing a life paper reframing life, formulating future wheels analyzing use of time, and developing scenarios of the student’s future.

DMCP 511C  Team Self-Management Module C
0 units; 9 hours Laboratory
Prerequisite: DMCP 511B.
Repeatability: May be taken a total of 20 times.
Introduces the theory and practice of team self-management and its application in work organizations: developing notetaking skills, setting and developing goals, analyzing the role of and managing stress, diagnosing one’s procrastination, and utilizing advanced mindfulness techniques.

DMCP 511D  Team Self-Management Module D
0 units; 9 hours Laboratory
Prerequisite: DMCP 511C.
Repeatability: May be taken a total of 20 times.
Introduces the theory and practice of team self-management and its application in work organizations: evaluating how the body can help analyze goals, formulating family history, exploring forgiveness, creating a vision of the future, and applying the tools of team self-management.

DIGITAL MEDIA
Visual, Applied, and Performing Arts Division
John Graulty, Division Dean
Division Office, Room VAPA1007
John Govsky, Department Co-Chair, (831) 466-3269
Beth Regardz, Department Co-Chair, (831) 479-6475
Aptos Counseling: (831) 479-6274 for appointment
Watsonville Counseling: (831) 786-4734
http://www.cabrillo.edu/programs

Digital Media Department
The Digital Media Department offers Digital Publishing and Web Media degree programs with courses in technology and skills needed for entry-level employment, updating existing skills, transfer to upper division programs, and preparation for advanced specialized courses in the fields of Digital Publishing and Web Media involving graphic design, production for print and interactive media, website design and development, along with video and animation production for diverse screens and devices.

Training and Careers
Students learn to use computer applications for graphic design and typography, publishing, news media, entertainment, education, commercial media, advertising, marketing, social media, and other emerging fields. Digital Media courses are designed to prepare students for jobs and careers in ever-changing digital media professions and related technologies. Employers have specified three important qualities, in order of importance, for digital media job seekers: 1) Talent (inventive and creative with a strong interest in digital media), 2) Teamwork (group communication and problem-solving skills), and 3) Technological Aptitude (proficient with digital tools and techniques).

Degrees and Certificates
Cabrillo offers Associate in Science Degrees and Certificates of Achievement for both Digital Publishing and Web Media.

Digital Publishing A.S. Degree
The Digital Publishing program addresses communication design principles and processes for producing and publishing primarily print-ed materials. Students learn typography, graphic design, document formatting, file management, color systems, and proofing strategies for the design and layout of media for print and diverse devices. Principles of design and layout learned in digital publishing for print can be applied to screen media, web publishing, multimedia, video, and other non-print uses. Along with earning an associates degree, certificates of achievement, and skills certificates, students may earn credits that transfer to upper division programs.

Note: Old courses that used out-of-date software and techniques (100 level courses) are not equivalent to the current revised updated courses. Students with Catalog Rights should see a Counselor.

Learning Outcomes
1. Demonstrate the ability to research, evaluate, and report on trends in the industry and the relative merits and qualities of print media and e-publishing examples. (Global Awareness, Critical Thinking, Communication.)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Units</th>
<th>Lecture/Laboratory</th>
<th>Prerequisite(s)</th>
<th>Repeatability</th>
<th>Description</th>
<th>Transfer Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DM 56</td>
<td>Web Design Using WordPress</td>
<td>1.5</td>
<td>1.5 Lecture, 1 hour Laboratory</td>
<td>DM 1 or equivalent skills</td>
<td>May be taken a total of 1 time</td>
<td>Explores WordPress, a content management system (CMS) used to create and manage web pages. Course covers image preparation, web typography, search engine optimization, and web hosting. May be offered in a Distance-Learning Format.</td>
<td>Transfers to CSU.</td>
</tr>
<tr>
<td>DM 57</td>
<td>Social Media and Self-promotion</td>
<td>1.5</td>
<td>1.5 Lecture, 1 hour Laboratory</td>
<td></td>
<td>May be taken a total of 1 time</td>
<td>Introduces students to various forms of social media tools and technology and how to use these tools strategically for self-promotion and marketing. Students will learn about leading social media platforms and tools, who uses them, and how they have transformed the way we interconnect and interact with the world, both personally and professionally. Students will be expected to apply their knowledge by participating on different social media platforms through interactive class projects. May be offered in a Distance-Learning Format.</td>
<td>Transfers to CSU.</td>
</tr>
<tr>
<td>DM 56</td>
<td>Web Design with HTML and CSS</td>
<td>4</td>
<td>3 Lecture, 2 hours Laboratory</td>
<td>DM 1 or equivalent skills</td>
<td>May be taken a total of 1 time</td>
<td>Presents planning and production of web sites including: Text, Graphics, Hand-coded HTML, Basic Cascading Style Sheets (CSS), and HTML and CSS Validation. May be offered in a Distance-Learning Format.</td>
<td>Transfers to CSU.</td>
</tr>
<tr>
<td>DM 61</td>
<td>Responsive Web Design</td>
<td>4</td>
<td>3 Lecture, 2 hours Laboratory</td>
<td>DM 60</td>
<td>May be taken a total of 1 time</td>
<td>Presents planning, design, and production of graphics and page layouts for web sites using hand-coded HTML and CSS, including image creation and editing, color, conversion, compression, web typography, rollovers, tables, validation, and design considerations specific to online graphics. May be offered in a Distance-Learning Format.</td>
<td>Transfers to CSU.</td>
</tr>
<tr>
<td>DM 70</td>
<td>Web Design Using Dreamweaver</td>
<td>4</td>
<td>3 Lecture, 2 hours Laboratory</td>
<td>DM 1 and DM 60</td>
<td>May be taken a total of 1 time</td>
<td>Applies Dreamweaver, WordPress, and other industry standard tools and methods for responsive web design and production, including design principles of information architecture, color, layout, and typography. Students must know HTML and be able to create and edit graphics. May be offered in a Distance-Learning Format.</td>
<td>Transfers to CSU.</td>
</tr>
<tr>
<td>DM 72</td>
<td>Fundamentals of 2D Animation</td>
<td>4</td>
<td>3 Lecture, 2 hours Laboratory</td>
<td>DM 1</td>
<td>May be taken a total of 1 time</td>
<td>Teaches traditional and digital techniques used to create 2D animated imagery, design, and narrative stories. Emphasis on movement, timing, and expression. May be offered in a Distance-Learning Format.</td>
<td>Transfers to CSU.</td>
</tr>
<tr>
<td>DM 79</td>
<td>Creative Careers-Discovering Self-Directed Pathways</td>
<td>3</td>
<td>3 Lecture, 1 hour Laboratory</td>
<td></td>
<td>May be taken a total of 1 time</td>
<td>Investigates creative career opportunities in all visual, applied, and performing arts disciplines, with a focus on unique, self-directed, non-traditional, and entrepreneurial pathways and the academic and life choices necessary to realize such opportunities. May be offered in a Distance-Learning Format. Materials fee may apply. AH 79, ART 79, AP 79, DANCE 79, DM 79, MUS 79, and TA 79 are cross listed courses. Students may enroll in only one course for credit.</td>
<td>Transfers to CSU.</td>
</tr>
<tr>
<td>DM 80</td>
<td>The Studio</td>
<td>3</td>
<td>2 Lecture, 3 hours Laboratory</td>
<td>DM 2, DM 4</td>
<td>May be taken a total of 1 time</td>
<td>Engages in best practices for collaborative media design, and production work experience in the creation and coordination of graphic, interactive, and motion media projects—from intake to delivery. May be offered in a Distance-Learning Format.</td>
<td>Transfers to CSU.</td>
</tr>
<tr>
<td>DM 190A-ZZ</td>
<td>Special Topics in Digital Media</td>
<td>0.5 – 4</td>
<td>0.5 – 4 Lecture, 1.5 – 12 hours Laboratory</td>
<td></td>
<td>May be taken a total of 1 time</td>
<td>Presents courses designed to offer skill development and specialized knowledge in digital media, digital publishing and multimedia. The special areas will be announced, described and given their own course designations and titles in the Schedule of Classes. May be offered in a Distance-Learning Format.</td>
<td>Non-transferable.</td>
</tr>
</tbody>
</table>
ENGR 26  **Solid Modeling**  
1 unit; 3 hours Laboratory  
Hybrid Requisite: Completion of or concurrent enrollment in ENGR 25.  
Recommended Preparation: Assessment into ENGL 1A.  
Repeatability: May be taken a total of 1 time.  
Applies principles of solid modeling using parametric CAD software in engineering design and the production of engineering drawings. Construct parts, solid models, and assemblies. Plot three-dimensional drawings and dimensioned multiview drawings. Spring semester only.  
*Transfer Credit:* Transfers to CSU; UC.  

ENGR 30  **Computer Applications in Engineering**  
4 units; 3 hours Lecture, 3 hours Laboratory  
Prerequisite: MATH 5A.  
Recommended Preparation: Eligibility for ENGL 1A/1AH/1AMC/1AMCH.  
Repeatability: May be taken a total of 1 time.  
Applies computer-based problem-solving methods relevant to engineering using the fundamentals of procedural and object-oriented programming, numerical analysis, and data structures. Applies numeric techniques and computer simulation to analyze and solve engineering-related problems.  
*Transfer Credit:* Transfers to CSU; UC.  
C-ID ENGR 220  

ENGR 35  **Statics**  
3 units; 2 hours Lecture, 3 hours Laboratory  
Prerequisite: PHYS 4A and MATH 5B.  
Recommended Preparation: ENGR 25; ENGL 100L or Assessment into ENGL 1A.  
Repeatability: May be taken a total of 1 time.  
Analyzes force systems on rigid bodies in static equilibrium using two- and three-dimensional models and vector and scalar analysis methods. Topics include distributed force systems, friction, couples, moments; shear and bending moment diagrams; analysis of trusses, frames, and beams; centroids/center of mass; area and mass moment of inertia. Optional topics include cables, Mohr’s circle and virtual work. Spring semester only.  
*Transfer Credit:* Transfers to CSU; UC.  
C-ID ENGR 130  

ENGR 40  **Strength of Materials**  
4 units; 3 hours Lecture, 3 hours Laboratory  
Prerequisite: ENGR 35.  
Recommended Preparation: Eligibility for ENGL 1A/1AH/1AMC/1AMCH.  
Repeatability: May be taken a total of 1 time.  
Studies stresses, strains, and deformations associated with axial, torsional, and flexural loading of bars, shafts, and beams, as well as pressure loading of thin-walled pressure vessels. The course also covers stress and strain transformation, Mohr’s Circle, ductile and brittle failure theories, and the buckling of columns. Statically indeterminate systems are also studied. Offered spring semester only.  
*Transfer Credit:* Transfers to CSU; UC.  

ENGR 45  **Engineering Materials**  
4 units; 3 hours Lecture, 3 hours Laboratory  
Prerequisite: PHYS 4A and CHEM 1A and ENGL 1A/1AH/1AMC/1AMCH.  
Recommended Preparation: ENGR 10 and CHEM 1B.  
Repeatability: May be taken a total of 1 time.  
Presents the properties and performance of engineering materials and their relationship to the internal structure of materials. Applies the concepts of material science and engineering in testing materials using laboratory testing equipment. Utilizes analysis techniques in selecting the appropriate materials to meet engineering design criteria. Engineering materials include metals, polymers, ceramics, composites, and semiconductors. Fall semester only.  
*Transfer Credit:* Transfers to CSU; UC.  
C-ID ENGR 140B  

ENGR 98A  **Global Engineering**  
2 units; 2 hours Lecture  
Hybrid Requisite: ENGR 5.  
Recommended Preparation: ENGR 25.  
Repeatability: May be taken a total of 1 time.  
Prepares students for the Engineering Abroad Program. Explores the interrelationship between people, culture, the global economy, the environment, sustainability, technology, ethics, engineering problem solving, and engineering design.  
*Transfer Credit:* Transfers to CSU.  

ENGR 98B  **Engineering Abroad**  
1 unit; 3 hours Laboratory  
Prerequisite: ENGR 98A.  
Repeatability: May be taken a total of 1 time.  
Explores the interrelationship between engineering, technology, and culture through a service-learning or an experiential engineering abroad experience.  
*Transfer Credit:* Transfers to CSU.
2. Analyze existing electrical circuits and mechanical systems and identify weaknesses in their configurations. (Critical Thinking, Global Awareness)

3. Build simple electrical circuits and mechanical systems based upon industry protocols and standards. (Critical Thinking, Professional Development)

**Required Courses**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 10</td>
<td>Introduction to Physics</td>
</tr>
<tr>
<td>PHYS 10L</td>
<td>Introduction to Physics Lab</td>
</tr>
<tr>
<td>COMM 6</td>
<td>Listening</td>
</tr>
<tr>
<td>CHEM 3</td>
<td>Introductory Inorganic Chemistry</td>
</tr>
<tr>
<td>CHEM 3L</td>
<td>Introductory Inorganic Chemistry Laboratory</td>
</tr>
<tr>
<td>ETECH 24</td>
<td>Introduction to AutoCAD</td>
</tr>
</tbody>
</table>

**Total Units**: 12

*CHEM 3 has a prerequisite of MATH 152 (Intermediate Algebra)

**Technology and Trades Certificate**

**Learning Outcomes**

1. Demonstrate mastery of a tradesperson’s knowledge “base equivalent” to passing an industry-level certification such as Certificate I in Engineering- Fabrication Trade. (Global Awareness, Critical Thinking)

2. Draft and build a simple wood or metal fabrication based upon industry protocols and standards. (Critical Thinking, Professional Development)

3. Analyze existing mechanical systems and identify weaknesses in their constructions. (Critical Thinking, Global Awareness)

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>CEM 178A</td>
<td>Residential Construction Skills 1: “Front End”</td>
</tr>
<tr>
<td>CS 54</td>
<td>*Career Planning</td>
</tr>
<tr>
<td>ENGR 5</td>
<td>Engineering as a Profession</td>
</tr>
<tr>
<td>ETECH 24</td>
<td>Introduction to AutoCAD</td>
</tr>
<tr>
<td>W 150</td>
<td>**Arc Welding</td>
</tr>
</tbody>
</table>

**If desired, one required Technology and Trades course may be replaced with one of the following (listed courses may require the completion of prerequisites):**

<table>
<thead>
<tr>
<th>Course</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETECH 40</td>
<td>3D Animation</td>
</tr>
<tr>
<td>ETECH 41</td>
<td>Advanced AutoCAD</td>
</tr>
<tr>
<td>ETECH 60</td>
<td>Architecture/Green Design: Principles and Practices</td>
</tr>
<tr>
<td>ETECH 61</td>
<td>Architecture/Green Design: Planning and Construction</td>
</tr>
<tr>
<td>ETECH 62</td>
<td>Architecture/Green Design: Implementation using AutoCAD</td>
</tr>
<tr>
<td>ETECH 130</td>
<td>Introduction to Creo and Solidworks</td>
</tr>
<tr>
<td>W 151</td>
<td>TIG Welding</td>
</tr>
</tbody>
</table>

**Total Units**: 12 - 16

We recommend the online section to avoid scheduling difficulties with other Technology and Trades courses.

*We recommend that students complete high school algebra or MATH 154 prior to enrolling in this course.

**Engineering Technology Courses**

**ETECH 24**  
Introduction to AutoCAD  
3 units; 2 hours Lecture, 4 hours Laboratory  
Recommended Preparation: CABT 106.  
Repeatability: May be taken a total of 1 time.  
Introduces the fundamental operating principles of AutoCAD drafting/design software. Uses AutoCAD for Windows to create and revise two-dimensional drawings. This is a foundation course that can lead to advanced study in a variety of drafting and design fields. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.  
Transfer Credit: Transfers to CSU; UC.

**ETECH 31**  
Introduction to Electronic Circuit and Schematic Design  
3 units; 2 hours Lecture, 4 hours Laboratory  
Prerequisite: ETECH 24 or equivalent skills.  
Recommended Preparation: CABT 106.  
Repeatability: May be taken a total of 1 time.  
Introduces the use of computer aided drafting software for the design of electronic diagrams, including schematics, wiring diagrams, block diagrams, and printed circuit fabrication drawings. Includes instruction on symbol creation, symbol library maintenance, and hands-on basic electronics. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.  
Transfer Credit: Transfers to CSU.

**ETECH 40**  
3D Animation  
3 units; 2 hours Lecture, 4 hours Laboratory  
Repeatability: May be taken a total of 1 time.  
Introduces theories and techniques of 3D computer animation. Includes an introduction to 3D model construction, animation, rigging, simulation, motion capture, and rendering. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.  
Transfer Credit: Transfers to CSU; UC.

**ETECH 41**  
Advanced AutoCAD  
3 units; 2 hours Lecture, 4 hours Laboratory  
Prerequisite: ETECH 24 or equivalent skills.  
Repeatability: May be taken a total of 1 time.  
Introduces a second level AutoCAD and first level mechanical drafting course. Includes an introduction to the computer aided design of mechanical drawings, detailing the fabrication of mechanical parts, technical sketching, multi-view orthographics, section views, auxiliary views, 3D modeling, dimensioning, and an introduction to computer aided manufacturing. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.  
Transfer Credit: Transfers to CSU.
ETECH 43  Intermediate 3D Animation
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ETECH 40.
Repeatability: May be taken a total of 1 time.
Presents a second-level course in the use of 3D animation software to create animation using 3D computer models. Includes advanced 3D model construction, rendering, and animation using camera, target, and object motion. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.
Transfer Credit: Transfers to CSU; UC.

ETECH 60  Architecture/Green Design: Principles and Practices
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Provides an overview of the field of architectural drafting and green design for those interested in pursuing this occupational area of study. Includes an introduction to the professional fields of architecture, engineering, city planning, and landscape architecture. The language of architecture and the historical development of green construction principles will also be emphasized.
Transfer Credit: Transfers to CSU; UC.

ETECH 61  Architecture/Green Design: Planning and Construction
3 units; 2.5 hours Lecture, 1.5 hours Laboratory
Repeatability: May be taken a total of 1 time.
Presents an introduction to green architectural drafting/design with an emphasis on drafting construction details, and the application of green construction processes/materials. AutoCAD computer aided drafting software will be introduced as a means of creating simple design projects.
Transfer Credit: Transfers to CSU.

ETECH 62  Architecture/Green Design: Implementation using AutoCAD
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ETECH 24 or equivalent skills.
Repeatability: May be taken a total of 1 time.
Covers intermediate topics in AutoCAD-based green architectural drafting techniques/practices, including wood construction methods/processes, preparation of construction documents, site plans, floor plans, sections, elevations, and specifications. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.
Transfer Credit: Transfers to CSU.

ETECH 75  BIM and Sustainable Design Strategies I
3 units; 2 hours Lecture, 4 hours Laboratory
Recommended Preparation: CABT 106 or equivalent skills.
Repeatability: May be taken a total of 1 time.
Introduces multiple industry standard Building Information Modeling (BIM) software programs found in the architecture profession. Focuses on the basic concepts and tools needed to create a 3D virtual architectural model. Also introduces a variety of output capabilities including energy analysis software. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.

ETECH 130  Introduction to Creo and Solidworks
3 units; 2 hours Lecture, 4 hours Laboratory
Repeatability: May be taken a total of 1 time.
Covers an introduction to the fundamental operating principles of Creo and Solidworks software applications. Uses Creo and Solidworks for Windows to create and revise drawings. This is a foundation course that can lead to advanced study in a variety of drafting and design fields. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.
Transfer Credit: Non-transferable.

ETECH 131  Intermediate Creo and Solidworks
3 units; 2 hours Lecture, 4 hours Laboratory
Prerequisite: ETECH 130.
Repeatability: May be taken a total of 1 time.
Covers intermediate-level operating principles of Creo and Solidworks software applications. Uses Creo and Solidworks for Windows to create and revise drawings. The second of a two part Creo and Solidworks course series. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.
Transfer Credit: Non-transferable.

ETECH 190A-Z Special Topics in Engineering Technology
0.5 – 3 units; 0.5 - 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Selected topics in Engineering Technology not covered by regular catalog offerings. Each special topic course will be announced, described, and given its own title and letter designation in the Schedule of Classes. The structure and format of the classes will vary depending on the subject matter.
Transfer Credit: Non-transferable.
Intermediate English Fluency Certificate of Competency

The Intermediate English Fluency Certificate of Competency shows that a student has demonstrated proficiency in intermediate English by successfully completing ESL 353A and 353B and can move forward in the noncredit ESL sequence, attempting the Advanced ESL course sequence.

Learning Outcomes

Demonstrate understanding of essential points of discussion or speeches of familiar or unfamiliar topics. Demonstrate ability to communicate with appropriate syntax and control of grammatical patterns in most extended conversations and interviews. Demonstrate understanding of simple authentic reading materials on common topics and interpret the meaning of readings on specialized topics. Demonstrate ability to write brief, paragraph length, compositions on previously discussed topics and exhibit control of basic grammatical patterns.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 353A</td>
<td>ESL Intermediate-Low</td>
</tr>
<tr>
<td>and</td>
<td></td>
</tr>
<tr>
<td>ESL 353B</td>
<td>ESL Intermediate-High</td>
</tr>
</tbody>
</table>

Advanced English Fluency Certificate of Competency

The Advanced English Fluency Certificate of Competency shows that a student has demonstrated mastery in beginning English by successfully completing ESL 354A and 354B, effectively completing the noncredit ESL sequence. Upon achieving this certificate, the student can advance to the academic credit ESL sequence.

Learning Outcomes

Compose narrative, descriptive and opinion paragraphs that demonstrate clarity of expression, correct paragraph form, and command of basic grammatical structures. Demonstrate comprehension of main ideas found in authentic reading passages, both expository and fiction, using complete sentences that show command of basic grammatical structures. Demonstrate comprehension of main ideas found in listening passages using complete sentences that show command of basic grammatical structures.

Required Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 354A</td>
<td>ESL Advanced-Low Bridge to College 1</td>
</tr>
<tr>
<td>and</td>
<td></td>
</tr>
<tr>
<td>ESL 354B</td>
<td>ESL Advanced-High Bridge to College 2</td>
</tr>
</tbody>
</table>

English as a Second Language Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 1A</td>
<td>College Composition for ESL</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESL 1S</td>
<td>College Composition for ESL - Linguistic Analysis Plus</td>
</tr>
</tbody>
</table>

ESL 100 High Advanced Academic ESL

4 – 6 units; 4 – 6 hours Lecture
Prerequisite: ESL 255 or ESL 256E.
Co-requisite: READ 106.
Repeatability: May be taken a total of 1 time.
Develops students’ reading, writing, listening, and speaking skills for success in future academic work. Students read and write a variety of styles and prose common to college and university work. Students will write a minimum of 6,000 words in this course focusing on improved accuracy and usage. This class is the equivalent of ENGL 100; students continue to ENGL 1A and transfer classes.
Transfer Credit: Non-transferable.

ESL 202L Low-Intermediate English Development Lab

0.5 – 2 units; 1.5 – 6 hours Laboratory
Repeatability: May be taken a total of 1 time.
Provides one-to-one and small group tutorial assistance for low-intermediate ESL students. The lab is staffed by ESL instructors and tutors who can help with English language writing, reading and listening comprehension. Pass/No Pass grading and operates on a drop-in or appointment basis.
Transfer Credit: Non-transferable.

ESL 202R Beginning Reading and Vocabulary

2 – 4 units; 2 – 4 hours Lecture
Repeatability: May be taken a total of 1 time.
Introduces basic reading skills by using a variety of texts while focusing on vocabulary development and reading comprehension. Students identify organizational elements and develop reading strategies by using forms, simple manuals, short articles, and short stories.
Transfer Credit: Non-transferable.

ESL 204R Advanced Reading and Vocabulary

4 units; 4 hours Lecture
Recommended Preparation: ESL 203UH or ESL 203ES.
Repeatability: May be taken a total of 1 time.
Prepares ESL students for mainstream college classes by reviewing a variety of reading skills, strategies, and topics from different academic disciplines, stories or a novel for literacy appreciation. May be offered in a Distance-Learning Format.
Transfer Credit: Non-transferable.
**GENERAL SCIENCE**

**Natural and Applied Sciences Division**

Jamie Alonzo, Division Dean  
Division Office, Room 701  
Aptos Counseling: (831) 479-6274 for appointment  
Watsonville Counseling: (831) 786-4734  
Call (831) 479-6328 for more information  
www.cabrillo.edu/programs

**GENERAL SCIENCE**

**Program Description:**

The major in General Science provides a broad background in the sciences. Students completing this degree will have familiarity with concepts in many of the disciplines of science, including proficiency in laboratory methods. This degree may prepare the student to transfer to various science programs. Requirements for further study vary from campus to campus. See a counselor and consult catalogs for specific information on admission and general education requirements. Information on course equivalencies for major requirements at UC and CSU is available on the Internet at www.assist.org.

**Learning Outcomes**

The Cabrillo College Core Competencies (with an emphasis in the study of General Science):

1. **Communication**: Reading, Writing, Listening, Speaking, and/or Conversing
2. **Critical Thinking and Information Competency**: Analysis, Computation, Research, Problem Solving
3. **Global Awareness**: An appreciation of Scientific Processes, Global Systems and Civics, and Artistic Variety

**Model Program for General Science**

This Associate Degree requires 60 units appropriate to your educational goal, to include general education and at least 30 units in a major. Courses should be selected to meet the lower-division major preparation requirements at your intended transfer university - these specific requirements can be found at www.assist.org for 4-year public institutions in California. Please see a counselor for advisement to ensure you are taking the best possible courses given your goal. This degree may be completed as a transferable Associate in Science degree with the addition of university admission requirements and increased general education requirements.

The department presents the following suggested model program for this major. The courses listed below may or may not be appropriate depending on your specific goal. Please see a counselor for advisement for transfer to any 4-year institution.

---

**A.S. Degree: General Science**

**A.S. General Education** .......................................................... 21 Units

**Laboratory Sciences** .......................................................... 20

**Mathematics(*)** ............................................................... 5

**Approved Electives** .......................................................... 5

**Electives (any course numbered 1-99)** ................................... 9

**Total Units** ................................................................. 60

20 units of laboratory science, as defined by courses denoted with an asterisk (*) in Area B of the requirements for the A.S. Degree, in three of the five following areas. Cannot include CHEM 10, PHYS 10, ENGR 5 or 25 ............................................................. 20

**Life Forms (defined in Area B in A.S. requirements)**

**Chemistry**

**Physics**

**Engineering**

**Earth and Space Sciences (Astronomy, Physical Geography, Geology, Meteorology, or Oceanography)**

**Mathematics**

Mathematics: 5 units minimum from MATH 2 and MATH 3 or MATH 4, MATH 5 (series), or MATH 12/12H ............................................................... 5

**Approved Electives (5 Units)**

Elective units (to achieve the required total of 30) chosen from Area B list in the A.S. Degree requirements, Computer Science, or Engineering. ............................................................... 5

**Electives**

(Transfer): (Any Course Number 1-99) ........................................... 9

**Total Units** ................................................................. 60

---
**HIST 25A**  
Survey of Western Civilization—  
1648 to Late 20th Century ........................................ 3

**or**

**HIST 4BH**  
Honors Survey of Western Civilization—  
1648 to Late 20th Century ........................................ 3

---

### United States History: choose one from the following:

**HIST 17A**  
United States History to 1865 ....................................... 3

**or**

**HIST 17AH**  
Honors United States History to 1865 .......................... 3

**HIST 17B**  
United States History since 1865 ................................... 3

**or**

**HIST 17BH**  
Honors United States History since 1865 ....................... 3

**HIST 21A**  
Chicano History to 1865 ............................................ 3

**or**

**HIST 21AH**  
Honors Chicano History to 1865 ................................... 3

**HIST 21B**  
Chicano History since 1865 ........................................ 3

**or**

**HIST 21BH**  
Honors Chicano History since 1865 ............................. 3

**HIST 29A**  
African American History to 1865 ................................ 3

**HIST 29B**  
African American History since 1865 ........................... 3

**HIST 39AZ**  
Historical Studies .................................................. 3

---

Choose one to two additional courses from any of the three areas listed above. Courses that meet the multicultural requirement include:

**HIST 2AB, HIST 6, HIST 16ABC, HIST 19BC, HIST 21AB, and HIST 29AB.**

### Approved Electives: Choose 9-12 elective units from the following list:

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 2A</td>
</tr>
<tr>
<td>HIST 2B</td>
</tr>
<tr>
<td>HIST 4A</td>
</tr>
<tr>
<td>HIST 4AH</td>
</tr>
<tr>
<td>HIST 4B</td>
</tr>
</tbody>
</table>

**or**

**HIST 4BH**  
Honors Survey of Western Civilization— 1648 to Late 20th Century ........................................ 3

**HIST 6**  
History of the Middle East ........................................ 3

**HIST 14**  
Women in America .................................................. 3

**or**

**HIST 14H**  
Honors Women in America ......................................... 3

**HIST 15**  
Recent American History ............................................ 3

**HIST 16C**  
History of Mexico .................................................... 3

**HIST 17A**  
United States History to 1865 .................................... 3

**or**

**HIST 17AH**  
Honors United States History to 1865 ........................ 3

**HIST 17B**  
United States History since 1865 ............................... 3

**or**

**HIST 17BH**  
Honors United States History since 1865 .................... 3

**HIST 19B**  
Introduction to Chinese History ................................. 3

**HIST 19C**  
Introduction to Japanese History ................................ 3

**HIST 20AZ**  
American Studies .................................................. 1 - 3

**HIST 21A**  
Chicano History to 1865 ............................................ 3

**or**

**HIST 21AH**  
Honors Chicano History to 1865 ................................ 3

**HIST 21B**  
Chicano History since 1865 ........................................ 3

**or**

**HIST 21BH**  
Honors Chicano History since 1865 ............................ 3

**HIST 24**  
History of California .............................................. 3

**HIST 25A**  
Santa Cruz County and the Monterey Bay Region to 1890 ........................................ 3

**HIST 25B**  
Santa Cruz County and the Monterey Bay Region since 1890 ........................................ 3

**HIST 26AZ**  
Topics in Local and Regional History ......................... 1 - 3

**HIST 29A**  
African American History to 1865 ............................... 3

**HIST 29B**  
African American History since 1865 ........................... 3

**HIST 39AZ**  
Historical Studies .................................................. 3

---

### From Related Disciplines: Choose 3-9 elective units from the following list:

<table>
<thead>
<tr>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>ANT THR 1</td>
</tr>
<tr>
<td>ANT THR 1H</td>
</tr>
<tr>
<td>ANT THR 2</td>
</tr>
<tr>
<td>ANT THR 2H</td>
</tr>
<tr>
<td>ANTHR 3</td>
</tr>
<tr>
<td>ECON 1A</td>
</tr>
<tr>
<td>GEOG 2</td>
</tr>
<tr>
<td>PS 2</td>
</tr>
<tr>
<td>PSYCH 1</td>
</tr>
<tr>
<td>SOC 1</td>
</tr>
<tr>
<td>SOC 1H</td>
</tr>
</tbody>
</table>

---

Total Units  
Prospective History majors are encouraged to consult a history instructor regarding recommended elective courses.

### History Courses

**HIST 2A**  
**World History to 1500**

3 units; 3 hours Lecture

Recommended Preparation: Eligibility for ENGL 1A/1AH/1AMC/1AMCH.

Repeatability: May be taken a total of 1 time.

Focuses on major regions of the world, (Asia, Africa, Europe, North and South America), and their interactions until the year 1500, emphasizing belief systems, environmental transformations, issues of family and gender, as well as political and economic organization. Critical, analytical written work is the primary means of evaluation.

*Transfer Credit:* Transfers to CSU; UC. C-ID: HIST 150

**HIST 2B**  
**World History: 1500 to Present**

3 units; 3 hours Lecture

Recommended Preparation: Eligibility for ENGL 1A/1AH/1AMC/1AMCH.

Repeatability: May be taken a total of 1 time.

Focuses on major regions of the world, (Asia, Africa, Europe, North and South America), and their interactions since the year 1500, emphasizing belief systems, environmental transformations, issues of family and gender, as well as political and economic organization. Critical, analytical written work is the primary means of evaluation.

*Transfer Credit:* Transfers to CSU; UC. C-ID: HIST 160
HIST 25A  Santa Cruz County and the Monterey Bay Region to 1890
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Studies social, political, and economic history of the Santa Cruz County area beginning with native Californians and ending in 1890, with an emphasis on the contributions of ethnic minorities, women, and labor. 
Transfer Credit: Transfers to CSU.

HIST 25B  Santa Cruz County and the Monterey Bay Region since 1890
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Explores the history of Santa Cruz County from the 1890s to the present, including economic, political, and social development of the entire Monterey Bay region with an emphasis on the contributions of ethnic minorities, women, and labor.
Transfer Credit: Transfers to CSU.

HIST 26A-Z  Topics in Local and Regional History
1 – 3 units; 1 – 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Analyzes various topics in the social, political, and economic history of the Monterey Bay Region.
Transfer Credit: Transfers to CSU.

HIST 27A  Native American History and Literature I
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Surveys Native American history and literature from the 18th century to the early 20th century, examining the continuity of value systems and experience, as well as key differences between Native experiences in different times and places. Emphasis on the historical, philosophical, spiritual, political, and aesthetic contexts. May be offered in a Distance-Learning Format. HIST 27A and ENGL 27A are cross-listed courses. Students may enroll in either course for credit, but not both.
Transfer Credit: Transfers to CSU; UC.

HIST 27B  Native American History and Literature II
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Surveys Native American history and literature since the early 20th century, examining the continuity of value systems and experience, as well as key differences between Native experiences in different times and places. Emphasis on the historical, philosophical, spiritual, political, and aesthetic contexts. May be offered in a Distance-Learning Format. HIST 27B and ENGL 27B are cross-listed courses. Students may enroll in either course for credit, but not both.
Transfer Credit: Transfers to CSU; UC.

HIST 29A  African American History to 1865
3 units; 3 hours Lecture
Recommended Preparation: Eligibility for ENGL 1A/1AH/1AMC/1AMCH.
Repeatability: May be taken a total of 1 time.
Surveys the history of African Americans from the early colonial period up to 1865, in the context of general U.S. history. Analyzes the role that African Americans have played in the United States and on the changes that role has undergone. Critical, analytical written work is the primary means of evaluation. Satisfies the U.S. History requirement. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU; UC.

HIST 29B  African American History since 1865
3 units; 3 hours Lecture
Recommended Preparation: Eligibility for ENGL 1A/1AH/1AMC/1AMCH.
Repeatability: May be taken a total of 1 time.
Surveys the history of African Americans from 1865 to the present, in the context of general U.S. history. Analyzes the role that African Americans have played in the United States and on the changes that role has undergone. Critical, analytical written work is the primary means of evaluation. Satisfies the U.S. History requirement. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU; UC.

HIST 39A-Z  Historical Studies
1 – 3 units; 1 – 3 hours Lecture
Recommended Preparation: Eligibility for ENGL 1A/1AH/1AMC/1AMCH.
Repeatability: May be taken a total of 1 time.
Provides intensive study of some aspect of world history for advanced history students. Course content will vary with each offering, as will Prerequisites. Critical, analytical written work is the primary means of evaluation.
Transfer Credit: Transfers to CSU; UC, with conditions: Students must retain a copy of the course outline, the course syllabus and work completed for this course. Credit for this course is contingent upon a review of the course outline and other materials by the UC transfer campus,
Learning Outcomes
The Cabrillo College Core Competencies (with an emphasis in the study of Physics):
1. Communication: Reading, Writing, Listening, Speaking, and/or Conversing
2. Critical Thinking and Information Competency: Analysis, Computation, Research, Problem Solving

IGETC (for CSU) General Education Requirements

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHYS 4A</td>
<td><strong>Physics for Scientists and Engineers I</strong></td>
</tr>
<tr>
<td>PHYS 4B</td>
<td><strong>Physics for Scientists and Engineers II</strong></td>
</tr>
<tr>
<td>PHYS 4C</td>
<td><strong>Physics for Scientists and Engineers III</strong></td>
</tr>
<tr>
<td>MATH 5A</td>
<td>Analytic Geometry and Calculus I</td>
</tr>
<tr>
<td>MATH 5B</td>
<td>Analytic Geometry and Calculus II</td>
</tr>
<tr>
<td>MATH 5C</td>
<td>Analytic Geometry and Calculus III</td>
</tr>
</tbody>
</table>

Total Units: 60
*Fall only; **Spring only

Physics A. S. Degree

Learning Outcomes
The Cabrillo College Core Competencies (with an emphasis in the study of Physics):
1. Communication: Reading, Writing, Listening, Speaking, and/or Conversing
2. Critical Thinking and Information Competency: Analysis, Computation, Research, Problem Solving

Model Program for Physics
This Associate Degree requires 60 units appropriate to your educational goal, to include general education and at least 30 units in a major. Courses should be selected to meet the lower-division major preparation requirements at your intended transfer university - these specific requirements can be found at www.assist.org for 4-year public institutions in California. Please see a counselor for advisement to ensure you are taking the best possible courses given your goal. This degree may be completed as a transferable Associate in Science degree with the addition of university admission requirements and increased general education requirements.

The department presents the following suggested Model Program for this major. The courses listed below may or may not be appropriate depending on your specific goal. Please see a counselor for advisement for transfer to any 4-year institution.

A. S. General Education

<table>
<thead>
<tr>
<th>Core Courses (39 units)</th>
<th>21 Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 5A</td>
<td>Analytic Geometry and Calculus I</td>
</tr>
<tr>
<td>MATH 5B</td>
<td>Analytic Geometry and Calculus II</td>
</tr>
<tr>
<td>MATH 5C</td>
<td>Analytic Geometry and Calculus III</td>
</tr>
<tr>
<td>MATH 6</td>
<td>Introduction to Linear Algebra</td>
</tr>
<tr>
<td>MATH 7</td>
<td>Introduction to Differential Equations</td>
</tr>
<tr>
<td>PHYS 4A</td>
<td>Physics for Scientists and Engineers I</td>
</tr>
<tr>
<td>PHYS 4B</td>
<td>Physics for Scientists and Engineers II</td>
</tr>
<tr>
<td>PHYS 4C</td>
<td>Physics for Scientists and Engineers III</td>
</tr>
<tr>
<td>PHYS 4D</td>
<td>***Modern Physics for Scientists and Engineers</td>
</tr>
</tbody>
</table>

Total Units: 60
*Spring only; **Fall only; ***Fall, even years only

Physics Courses

PHYS 2A  Physics for Life Sciences I
4 units; 3 hours Lecture, 4 hours Laboratory
Prerequisite: MATH 4 or MATH 2 and MATH 3 or equivalent knowledge.
Repeatability: May be taken a total of 1 time.
Covers mechanics, thermodynamics, and waves primarily for life science students. Fall semester only. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.
Transfer Credit: Transfers to CSU; UC, with limits: PHYS 2A, 2B and 4A, 4B, 4C combined: maximum credit-one series. Deduct credit for duplication of topics. C-ID: PHYS 105, PHYS 2A + PHYS 2B = C-ID PHYS 100S

PHYS 2B  Physics for Life Sciences II
4 units; 3 hours Lecture, 4 hours Laboratory
Prerequisite: PHYS 2A.
Repeatability: May be taken a total of 1 time.
Covers electromagnetism, optics, relativity, and the atom primarily for life science students. Spring semester only. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.
Transfer Credit: Transfers to CSU; UC, with limits: PHYS 2A, 2B and 4A, 4B, 4C combined: maximum credit-one series. Deduct credit for duplication of topics. C-ID: PHYS 110, PHYS 2A + PHYS 2B = C-ID PHYS 100S

PHYS 4A  Physics for Scientists and Engineers I
5 units; 4 hours Lecture, 4 hours Laboratory
Prerequisite: PHYS 11 or a "B" or better in high school physics and MATH 5A or an "A" in MATH 5B.
Recommended Preparation: Completion of or concurrent enrollment in MATH 5B.
Repeatability: May be taken a total of 1 time.
Covers classical mechanics, fluids, and waves for scientists and engineers. This is the first course in the calculus-based physics sequence. Some of the class hours for this course may be scheduled as To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering.
Transfer Credit: Transfers to CSU; UC, with limits: PHYS 2A, 2B, and 4A, 4B, 4C combined: maximum credit-one series. Deduct credit for duplication of topics. C-ID: PHYS 205, PHYS 4A + PHYS 4B + PHYS 4C = C-ID PHYS 2005
Fire Technology Courses

FT 1  Fire Protection Organization
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Examines fundamentals of fire department organization, management, and resources, emphasizing the use of those resources to control various emergencies. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.

FT 2  Fire Prevention Technology
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Explores the organization and function of fire prevention, including inspections; surveying and mapping procedures; recognition of fire and life hazards; and public education aspects of fire prevention. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.

FT 3  Fire Protection Equipment and Systems
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Examines portable fire extinguishing equipment; fire detection and alarm systems, sprinkler systems; and protection systems for special hazards. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.

FT 4  Building Construction for Fire Protection
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Examines the fundamentals of building construction as they relate to fire protection including occupancy, building equipment, facilities, fire resistant materials, and high-rise considerations. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.

C-ID FIRE 130X

FT 5  Fire Behavior and Combustion
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Examines theory and fundamentals of how and why fires start, spread, and are controlled including an in-depth study of fire chemistry, physics, characteristics of materials, extinguishing agents, and control techniques. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.

FT 6ES  Principles of Emergency Services Safety and Survival
3 units; 3 hours Lecture
Eligibility for MATH 154.
Repeatability: May be taken a total of 1 time.
Introduces the basic principles and history related to the national firefighter life safety initiatives, focusing on the need for cultural and behavioral change throughout the emergency services. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.

FT 7  Introduction to Hazardous Materials
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Presents emergency handling of toxic and radioactive materials, fuels, oxidizers, explosives, as well as flammability and hazard control for storage and transit. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.

FT 8  Wildlands Fire Control
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Provides the firefighter or fire protection technology major with a fundamental knowledge of the factors affecting wildland fire prevention, fire behavior, and control techniques. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.

FT 9  Fire Investigation
3 units; 3 hours Lecture
Recommended Preparation: FT 1.
Repeatability: May be taken a total of 1 time.
Explores causes and types of fire, related laws, recognition and preservation of evidence, and introduces witness and suspect interviews as well as arrest, detention, and court procedures. May be offered in a Distance-Learning Format.
Transfer Credit: Transfers to CSU.
Sociology A.A.-T Transfer Degree

Sociology is the scientific, systematic study of human society and social interaction. The sociological perspective is a powerful tool to critically analyze and understand contemporary society at the local, regional, national, and global levels. Sociology focuses on face-to-face social interactions as well as on large-scale social institutions such as economy, politics, education, mass media, religion, and the criminal justice system. Sociology’s subject matter ranges from the intimate, personal interactions as well as on large-scale social institutions such as economy, politics, education, mass media, religion, and the criminal justice system. Sociology’s subject matter ranges from the intimate, personal and topical courses. All classes emphasize multicultural and gender issues.

A sociology major usually transfers to a four-year institution to complete a Bachelor’s Degree. Because of the broad scope of subject matter, sociology is excellent preparation for a wide range of career paths, including teaching, journalism, law, business, communications, nonprofit management, corrections/law enforcement, social work, counseling, urban planning, public service, and politics.

Cabrillo offers options for degrees in Sociology. The first option listed below is the Associate in Arts in Sociology for Transfer (A.A.-T), which is intended for students who plan to complete a bachelor’s degree in a similar major at a CSU campus. Students completing these degrees are guaranteed admission to the CSU system, but not to a particular campus or major. This degree may not be the best option for students intending to transfer to a particular CSU campus or to a university or college that is not part of the CSU system.

See Associate Degree for Transfer information in the Cabrillo College Catalog. The following is required for all A.A.-T or A.S.-T degrees:

- Completion of 60 CSU-transferable semester units.
- Minimum grade-point average (GPA) of at least 2.0 in all CSU-transferable coursework. While a minimum of 2.0 is required for admission, some majors may require a higher GPA.
- Completion of a minimum of 18 semester units in the major with a letter grade of “C” or better, or a “P” if the course is taken on a “pass/no pass” basis.
- Certified completion of the California State University General

Education Breadth pattern (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.

The second option lists the requirements for an A.A. Degree in Sociology from Cabrillo College.

Learning Outcome

The Cabrillo College Core Competencies (with an emphasis in the study of Sociology):

1. Communication: Reading, Writing, Listening, Speaking, and/or Conversing
2. Critical Thinking and Information Competency: Analysis, Computation, Research, Problem Solving

CSU or IGETC for CSU General Education Requirements 37-39 Units

<table>
<thead>
<tr>
<th>Core Course (3 Units)</th>
<th>Additional Core Courses (6-8 Units)</th>
<th>Select two courses from the following (Units)</th>
<th>List A - Select two courses from the following (6 Units)</th>
<th>List B - Select one course from the following (3 Units)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOC 1 Introduction to Sociology: Understanding Society ..........................................................3</td>
<td>SOC 2 Contemporary Social Problems .................3</td>
<td>SOC 2H Honors Contemporary Social Problems ...............3</td>
<td>ANTHR 2 Introduction to Anthropology: Cultural ..................................................3</td>
<td></td>
</tr>
<tr>
<td>or SOC 1H Honors Introduction to Sociology: Understanding Society ..................................................3</td>
<td>SOC 2H Honors Contemporary Social Problems ..........3</td>
<td>SOC 3 Elementary Statistics ..................................................5</td>
<td>ANTHR 2H Honors Introduction to Anthropology: Cultural ........................................3</td>
<td></td>
</tr>
<tr>
<td>MATH 12 or MATH 12H or PSYCH 2A</td>
<td></td>
<td></td>
<td>ANTHR 3 Introduction to Anthropology: Archaeology ..................3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>BUS 18 Business Law .................................................4</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>GEOG 2 Cultural Geography ...............................................3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>PSYCH 1 General Psychology ............................................3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>or PSYCH 1H Honors General Psychology .....................3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SOC 8 Introduction to Latino/a Studies ....................3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SOC 9 Globalization and Society ....................................3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>SOC 10 Popular Culture ................................................3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Any lower-division major preparation course articulated to the Similar Major at a CSU. All courses except BUS 18 also meet general education requirements.</td>
<td></td>
</tr>
</tbody>
</table>

Education Breadth, California State University-General Education Breadth pattern (CSU GE Breadth) or the Intersegmental General Education Transfer Curriculum (IGETC) pattern.
TA 33  Makeup and Masks
3 units; 2 hours Lecture, 4 hours Laboratory
Repeatability: May be taken a total of 1 time.
Presents an introduction to the theory and practice of makeup for the stage including practice in the design and application of straight, stylized character, special effects, and other makeup techniques. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC. C-ID: THTR 175

TA 34  Costume Workshop
3 units; 3 hours Lecture, 1 hour Laboratory
Repeatability: May be taken a total of 1 time.
Presents an introduction to costume theory, design, and construction for the theatre. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC. C-ID: THTR 174

TA 35  Scene Painting
3 units; 2 hours Lecture, 3 hours Laboratory
Repeatability: May be taken a total of 1 time.
Presents basic scene painting techniques and materials, including illusionistic and faux painting methods, realization of color elevations, and painting furniture and props. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

TA 36  Introduction to Stage Management
3 units; 2 hours Lecture, 3 hours Laboratory
Repeatability: May be taken a total of 1 time.
Explores stage management principles for theatre, dance, musical theatre, and concert productions, analyzing the dynamic role of the stage manager in the performing arts management team.
Transfer Credit: Transfers to CSU; UC.

TA 45  Improvisation Workshop
1 unit; 1 hour Lecture, 5 hours Laboratory
Repeatability: May be taken a total of 1 time.
Explores theater games and improvisation to develop group consciousness and trust with ensemble-building techniques incorporating: movement, imagination, collaboration techniques, and appropriate risk-taking. Builds life-skills in listening, speaking, and observing. Useful for those pursuing careers requiring negotiation and collaboration. Covers the creation of non-scripted stories and situations.
Transfer Credit: Transfers to CSU; UC.

TA 73  Voice and the Musical Stage
3 units; 3 hours Lecture
Repeatability: May be taken a total of 1 time.
Explores voice technique for the Broadway musical including: character, legit, belt, and the mixing of speech and singing. Song literature will be taken from the musical comedy repertoire covering multiple styles.
Transfer Credit: Transfers to CSU; UC.

TA 74  Acting for Musical Theatre
3 units; 3 hours Lecture, 1 hour Laboratory
Repeatability: May be taken a total of 1 time.
Examines the study of basic techniques of musical theatre performance including: music and text analysis and scene work that includes singing, choreography, and dialog. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

TA 75  Musical Theatre Production
1 – 3 units; 3 – 9 hours Laboratory
Prerequisite: By audition
Repeatability: May be taken a total of 4 times.
Rehearsal and performance of musical and musical comedy literature with concentration on all aspects of the production related to professional performance; audition by musical theatre staff is required for enrollment. Some of the class hours for this course may be scheduled a To Be Arranged (TBA). See the Schedule of Classes for the details about this course offering. Materials fee may apply.
Transfer Credit: Transfers to CSU; UC.

TA 79  Creative Careers-Discovering Self-Directed Pathways
3 units; 3 hours Lecture, 1 hour Laboratory
Repeatability: May be taken a total of 1 time.
Investigates creative career opportunities in all visual, applied, and performing arts disciplines, with a focus on unique, self-directed, non-traditional, and entrepreneurial pathways and the academic and life choices necessary to realize such opportunities. May be offered in a Distance-Learning Format. Materials fee may apply. AH 79, ART 79, AP 79, DANCE 79, DM 79, MUS 79, and TA 79 are cross listed courses. Students may enroll in only one course for credit.
Transfer Credit: Transfers to CSU.