

## **Crafton Hills College Request for Substantive Change Review Distance Education**

Dear Dr. Susan Clifford,

This communication is the first step in the substantive change proposal process as required by the ACCJC and described on page 12 (section 4.2) in the ACCJC's Substantive Change Manual, December, 2014 edition.

This request is for consideration of a Substantive change report for Distance Education (DE) at Crafton Hills College (CHC). What follows is a description of the proposed change, the need for the change, and the anticipated effects.

This request follows an External Evaluation in October, 2014 which resulted in the issuance of Warning status to both colleges in the San Bernardino Community College District. College Recommendation 2 was made in regard to distance education.

*In order to meet the standards, the team recommends that the college update its Distance Education plan to provide guidance in determining the long-term vision for distance education to support the current and future needs of its students including student support and library and learning support services.*

This recommendation prompted the College to identify a faculty member to serve as Distance Education Coordinator. In addition to developing and vetting the new Distance Education Plan, the Coordinator conducted an exhaustive review of Crafton Hills College DE curriculum.

She found that Crafton Hills College has been offering courses in the distance education format for over 40 years. The first online class was offered at CHC in January of 1996. Between 1996 and 2003, there was a slow growth of online offerings. However since 2004, the growth of online classes has been substantial. The growth of online and hybrid classes has been an integral part of CHC's mission to advance the educational, career, and personal success of our diverse campus community through engagement and learning.

The comprehensive review of the courses, degrees, certificates, and general education programs approved for Distance Education revealed that Crafton Hills College currently offers 23 degrees, one certificate, and three general education packages that can be completed by students taking 50% or more of the required credits in a distance education format. Currently, CHC does not offer any degrees or GE options that can be completed by students taking 100% of the required credits in a distance education format. The college has updated its Distance Education plan, and includes as a goal the exploration of the growth of DE courses in high demand degrees and certificates, with the possibility of offering some of these 100% online.

Crafton Hills College believes it has crossed the threshold describe on page 9 (section 3.7.3) of ACCJC's Substantive Change Manual and as such needs to submit a Substantive Change Proposal for Distance Education to ACCJC.

To date, the following programs have approved DE addendums for 50% or more of the required courses:

- CHC AS/AA General Education Requirements
- CSU GE
- IGETC
- Major preparation for several CHC AA/AS Degrees

The CHC AS/AA general education pattern can be completed online with the exception of the quantitative reasoning component. The CSU GE pattern can be completed in an online format with the exception of Political Science 100. The IGETC pattern can be completed online with the exception of the language requirement. Major courses, and in some cases the majority of the courses in several CHC degrees, can be completed online.

In requesting permission to submit a substantive change review, Crafton Hills College wishes to fully align with ACCJC standards surrounding distance education formats. In addition, a robust DE program can help the institution meet the needs of our military veteran, disabled, and working adult populations, identified as disproportionately impacted with regard to access in our recent Equity audit. Our College Equity Plan identifies distance education offerings as an effective intervention for the access issues experienced by these groups.

If the ACCJC will allow Crafton Hills College to submit a Substantive Change Proposal while on sanction, it is our intention to submit the proposal to the Commission for consideration at the June, 2016 meeting. The review and approval of the Commission will allow the College to be in compliance with ACCJC standards and to remedy the deficiency cited in the 2014 Evaluation Team report, and will permit the College to continue to build on the work that has been done in distance education.

We look forward to working with you on this process and eagerly await your reply.

Sincerely,



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Vice President Student Services  
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## **Attachments**

Note: courses offered in an online format are indicated in red print.

Attachment A: CHC AS/AA Degree Requirements

Attachment B: CSU GE

Attachment C: IGETC

Attachment D: CHC Multidisciplinary Degrees

Attachment E: CHC Degrees

Attachment A  
CRAFTON HILLS COLLEGE  
AA/AS DEGREE REQUIREMENTS 2015-16

Completion of a minimum of **twenty-eight (28) units** of general education must be distributed as indicated. No single course may be used to meet more than one general education requirement, **except in areas F1 and F2**. However, courses taken to complete a major may also apply to general education.

**A. NATURAL SCIENCES (4 UNITS) (CAN ALL BE DONE ONLINE)**

ANAT 101, 150, 151, ASTRON 150, 150H AND 160, BIOL 100, 130, 130H, 131, 131H, **CHEM 101, 102**, 150, 150H, 151, 151H, 212, 213, **ENVS 101** or **ENVS 101H AND 110** **GEOG 110** or 110H AND 111 or 111H, 114, **GEOL 100**, 100H, **101** or 101H AND 160, 112, **MICRO 102**, 150, **OCEAN 100**, **PHYSIC 100**, 110, 111, 200, 201, 250, 251, 252

Transfer Credit \_\_\_\_\_

**B. SOCIAL AND BEHAVIORAL SCIENCES (3 UNITS) (CAN ALL BE DONE ONLINE)**

**ANTHRO 100, 102**, 102H, **106**, 106H, 107, **BUSAD 100, CD 105, COMMST 135, 174, ECON 100, 200**, 200H, **201**, 201H, **GEOG 102**, 102H, 120, **HIST 100**, 100H, **101**, 101H, 107, 145, 150, 170, 170H, 171, 171H, **JOUR 135**, **MCS 120**, 132, 136, **POLIT 100**, 100H, 102, 104, 106, 110, 122, **PSYCH 100**, 100H, **101, 102, 103, 110, 111, 118**, **RELIG 120**, **SOC 100**, 100H, **105, 130**, 141, 145, 150

Transfer Credit \_\_\_\_\_

**C. HUMANITIES AND FINE ARTS (6 UNITS) (CAN ALL BE DONE ONLINE)**

**1. Humanities-3 units from the following:**

**ANTHRO 107**, 110, **ARABIC 101**, 102, 103, 104, **ASL 101**, 102, 103, 104, **ENGL 108**, 109, 150, 152, **155**, 155H, **160**, 163, 175, 250, 260, 261, 270, 271, 275, 280, 281, **FRENCH 101**, 102, 103, 104, **HIST 100**, 100H, **101**, 101H, 107, **135**, 145, 150, 170, 170H, 171, 171H, **HUM 101**, 102, 103, **140**, **JAPN 101**, 102, 103, 104, **MCS 110**, 136, **PHIL 101**, 101H, **105**, 105H, **RELIG 100**, 100H, **101**, 101H, 110, 113, 120, **135**, 175, 176, **RUS 101**, 102, **SPAN 101**, 102, 103, 104, 157, 158, **THART 108**, 109

Transfer Credit \_\_\_\_\_

**2. Fine Arts-3 units from the following:**

**ART 100**, 100H, **102**, 102H, 103, 105, 113, **COMMST 120**, 120H, **DANCE 200**, 200H, **ENGL 170**, 232, **HUM 103**, **140**, **MUSIC 100**, **103**, 103H, **120**, 120H, **134**, **THART 100**, 100H

Transfer Credit \_\_\_\_\_

**D. LANGUAGE AND RATIONALITY (13-14 UNITS) (ALL but #3 (3-4 units) CAN ALL BE DONE ONLINE)**

**1. Written Traditions-4 units from the following: ENGL 101**, 101H, 146

Transfer Credit \_\_\_\_\_ (check box)

**2. Oral Traditions-3 units from the following:**

**BUSAD 145**, 155, **COMMST 100**, 100H, 111, 111H, 140, 145, 155

Transfer Credit \_\_\_\_\_

**3. Quantitative Reasoning 3-4 units from the following:**

**CSCI 200**, **MATH 095**, 095C, 102, 103, 108, 110, 115, 141, 160, 200, 250, 251, 252, 265, 266, **PSYCH 108**, 120

Transfer Credit \_\_\_\_\_

**4. Critical Thinking and Informational Literacy-3 units from the following: COMMST 125**, 125H, **ENGL 102**, 102H,

**LIBR 100**, **PBSF 127**, **PHIL 103**

Transfer Credit \_\_\_\_\_

**E. HEALTH AND WELLNESS (2-3 UNITS) (CAN ALL BE DONE ONLINE)**

**DANCE 101**, 102, 103, 104, 130 (A,B,C,or D), 143 (A,B,C,or D), 163 (A,B,C,or D), **HEALTH 102, 263**, 263H, **KIND, KINF, KINS** (all courses) Transfer Credit \_\_\_\_\_

**F. As part of the 28 units of general education coursework, students must satisfy the following two requirements:**

**1. Diversity and Multiculturalism-A minimum of one course chosen from this group may be taken as part of areas A-E above. (CAN ALL BE DONE ONLINE)**

**ANTHRO 107**, 110, **ARABIC 101**, 102, 103, 104, **ASL 101**, 102, 103, 104, **COMMST 174**, **ENGL 160**, 163, 280, 281, **FRENCH 101**, 102, 103, 104, **GEOG 102**, 102H, **HIST 107**, 150, 170, 170H, 171, 171H, **HUM 101**, 102, 140, **JAPN 101**, 102, 103, 104, **MCS 110**,

120, 132, 136, **RELIG 101**, 101H, 110, 113, 120, **RUS 101**, 102, **SPAN 101**, 102, 103, 104, 157, 158, **SOC 105**, 141, 145, 150

Transfer Credit \_\_\_\_\_

**2. American Heritage-A minimum of one course chosen from this group may be taken as part of areas A-E above. (CAN ALL BE DONE ONLINE)**

**ENGL 260**, 261, **HIST 100**, 100H, **101**, 101H, **135**, 145, **MUSIC 103**, **134**, **POLIT 100**, 100H, **RELIG 135**

Transfer Credit \_\_\_\_\_

**ASSOCIATE DEGREE REQUIREMENTS**

**1. Completion of a minimum of 60 units** acceptable college work with at least a "C" (2.0) or better cumulative and institutional grade point average.

NOTE: Courses numbered 900-999 are designated as non-degree applicable; however, units earned in these courses DO COUNT as student workload units. Courses numbered 001-299 and 500 level are degree applicable.

2. Successful completion with a “C” or better in all major requirements identified by the college catalog. **See a counselor or the college catalog for details. Work experience units may NOT be applied to the major. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring.**
3. Completion of twelve (12) semester units in residence at Crafton Hills College.
4. Reading competency as demonstrated by a grade of “C” or better in **ENGL 101** (Freshman Composition) **OR ENGL 101H** (Freshman Composition-Honors) **OR ENGL 146** (Writing for Business and the Professions) **OR** an equivalent course from another accredited institution. (Effective Fall, 2007)
5. Mathematics proficiency as demonstrated by completion of **MATH 095** (Intermediate Algebra) **OR MATH 095C** (Intermediate Algebra Part C) **OR** any higher-level math course with a grade of “C” or better **OR** an equivalent course from another accredited institution. (Effective Fall, 2006)
6. Writing competency as demonstrated by a grade of “C” or better in **ENGL 101** (Freshman Composition) **OR ENGL 101H** (Freshman Composition-Honors) **OR ENGL 146** (Writing for Business and the Professions) **OR** an equivalent course from another accredited institution. (Effective Fall, 2006)
7. The following restrictions apply to the **60 units** required for graduation:
  - a) A maximum of **4 units** of physical education activities may be applied.
  - b) A maximum of **15 units** of credit (CR) or (P) grades may be applied. No courses required for the student’s major may be taken for (CR) or (P).
  - c) A maximum of **6 units** of Reading and Study Skills courses numbered 001-099 (READ 078X2 and CHC 090X4) may be applied.
  - d) A maximum of **16 units** of Career and Technical Education Worksite Experience or **6 units** of General Worksite Experience may be applied for elective credit **ONLY**.
8. Completion of a minimum of **28 semester units** of general education is required. No single course may be used to meet more than one general education requirement, except in areas F1 and F2. However, courses taken to complete a major may also apply to general education.

Students can meet CHC **Option 1** general education requirements by completing requirements on this (two-sided) form. Students completing the IGETC pattern will satisfy CHC **Option 2A** general education breadth requirements. Students completing the CSUGE transfer pattern will satisfy CHC **Option 2B** general education breadth requirements.

## Attachment B

### CRAFTON HILLS COLLEGE CALIFORNIA STATE UNIVERSITY (CSU) GENERAL EDUCATION REQUIREMENTS 2015-16

#### General Provisions:

1. Students are required to **complete a minimum of 39 units in areas A-E** for full certification of lower division general education requirements. **Upon request to the Admissions and Records Office, CHC will certify** completion of the following pattern to be applied toward the total general education requirement at any CSU.
2. This pattern of general education **IS NOT** applicable to any campus of the University of California (UC). Please refer to the specific UC catalog of your choice, and/or the Intersegmental General Education Transfer Curriculum (IGETC) for transfer to CSU and UC.
3. Completed courses **MAY NOT** be applied in more than one area.
4. **COURSES IN BOLD PRINT ARE RETROACTIVELY APPROVED FOR FALL 2014 AND THEREAFTER.**

#### A. ENGLISH LANGUAGE COMMUNICATION AND CRITICAL THINKING (CAN ALL BE DONE ONLINE)

9 semester units or 12 quarter units required. Students **MUST** complete one course in each of the three areas listed with a "C" or better **prior to transfer**.

1. **COMMST 100**, 100H, 111, 111H or 140
2. **ENGL 101**, 101H
3. **COMMST 125**, 125H, **ENGL 102**, 102H or **PHIL 103**

Courses from other colleges: \_\_\_\_\_ AP/CLEP exams: \_\_\_\_\_

Met	IP	Need

#### B. SCIENTIFIC INQUIRY AND QUANTITATIVE REASONING (CAN ALL BE DONE ONLINE)

9 semester units or 12 quarter units required. **Choose** at least one course from each area. At least one of the science courses must have a laboratory. Laboratory courses are underlined.

##### 1. Physical Science

ASTRON 150, 150H + 160; **CHEM 101, 102, 123, 150, 150H, 151, 151H, 212, 213**; **ENVS 101, 101H, 110**; GEOG 110, 110H, 111, 111H, 114, 115, 126; GEOL 100, 100H, 101, 101H, 112, 113, 150, 150H, 160, 250; **OCEAN 100, 101**, 101H; PHYSIC 100, 110, 111, 200, 201, 250, 251, 252; **PS 101**

##### 2. Life Science

ANAT 101, 150, 151  
**ANTHRO 106**, 106H  
BIOL 100, 123, 130, 130H, 131, 131H  
**ENVS 101, 101H, 110**  
MICRO 102, 150

##### 3. Laboratory Activity

This requirement is satisfied by completion of any laboratory course in B1 or B2.

**Laboratory courses are underlined.**

##### 4. Mathematics

One course required with a "C" or better **prior to transfer**. CSCI 200; **MATH 102, 103, 108, 110, 115, 141, 160, 200, 250, 251, 252, 265, 266**; PSYCH 108, 120 (PSYCH 120 approved for fall 2015 and thereafter)

Courses from other colleges: \_\_\_\_\_ AP/CLEP exams: \_\_\_\_\_

Met	IP	Need

#### C. ARTS AND HUMANITIES (CAN ALL BE DONE ONLINE)

9 semester units or 12 quarter units required. **MUST** include at least one course from area 1 AND area 2. **Two** courses maximum per discipline may be applied.

- |  |  |
|--|--|
| <ol style="list-style-type: none"> <li>1. <b>ART 100, 100H, 102, 102H</b>, 103, 105, 113<br/><b>DANCE 200, 200H</b><br/>ENGL 108, 109, 226<br/><b>HUM 140</b><br/><b>MUSIC 100, 103, 103H, 120, 120H, 134</b>;<br/>THART 100, 100H, 108, 109, 226</li> </ol> | <ol style="list-style-type: none"> <li>2. ANTHRO 107, 110, ARABIC 101, 102, 103, 104, ASL 101, 102, 103, 104<br/><b>ENGL 150, 152, 155, 155H, 160, 163, 170, 175, 232, 250, 260, 261, 270, 271, 275, 280, 281</b><br/>FRENCH 101, 102, 103, 104, HIST 100, 100H, 101, 101H, 107, 135, 145, <b>150, 170, 170H, 171, 171H</b><br/>HUM 101, 102, 140, JAPN 101, 102, 103, 104, MCS 110, <b>136</b>; <b>PHIL 101</b>, 101H, <b>105, 105H, RELIG 100, 100H, 101, 101H, 110, 113, 120, 135, 175, 176, RUS 101, 102, SPAN 101, 102, 103, 104, 157, 158</b></li> </ol> |
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Courses from other colleges: \_\_\_\_\_ AP/CLEP exams: \_\_\_\_\_ 

Met	IP	Need
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- D. SOCIAL SCIENCES (CAN ALL BE DONE ONLINE – UNLESS POLIT 100 is required)**  
9 semester units or 12 quarter units required. **Two** courses maximum per discipline may be applied.  
POLIT 100 or POLIT 100H **PLUS HIST 100**, 100H, **101**, or 101H fulfill the U S History, Constitution & American Ideals requirements for CSU graduation.
- 0. **SOC 100**, 100H, **105**, **130**, 141, **145**, 150
  - 1. **ANTHRO** 100, **102**, 102H, **106**, 106H, 107, 110, HIST 107, RELIG 110
  - 2. **ECON 100**, **200**, 200H, **201**, 201H
  - 3. **MCS 132**, SOC 141
  - 4. **MCS 120**, **SOC 145**
  - 5. GEOG 102, 102H, 120
  - 6. ANTHRO 107, **HIST 100**, 100H, **101**, 101H, 107, **135**, 145, **150**, 170, 170H, 171, 171H, RELIG 135
  - 7. CD 105, **COMMST 135**, **174**, **JOUR 135**, MCS 110, **136**; **RELIG 120**, **SOC 130**
  - 8. POLIT 100, 100H, 102, 104, 106, 110, **122**
  - 9. **PSYCH 100**, 100H, **102**, **103**, **110**, **111**, **118**, SOC 150

Courses from other colleges: \_\_\_\_\_ AP/CLEP exams: \_\_\_\_\_ 

Met	IP	Need
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- E. LIFELONG LEARNING AND SELF-DEVELOPMENT (CAN ALL BE DONE ONLINE)**  
3 semester units or  
4 quarter units  
required. BUSAD  
155  
**CD 101**, **105**  
CHC 100  
COMMST 155, **178**  
**DANCE 101**, **102**, **103**,  
**104** (one unit maximum)  
**HEALTH 102**, **263**,  
263H  
**KIN 200**  
KIN/D, KIN/F (other than 049), KIN/S and any DANCE courses cross-listed with these KIN  
courses (one unit maximum) **PSYCH 103**, **111**, **118**  
SOC 150

Met	IP	Need
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**I. TRANSFER ADMISSION REQUIREMENTS**

A student is eligible for upper division transfer if the following requirements have been met:

- 1. **At least sixty (60) semester units** of transferable college courses have been completed with a grade point average of 2.00 or better. Non-residents of California must have a 2.40 or better grade point average.
- 2. At least thirty (30) units of the 60 units required for transfer **must** be selected from the general education courses in areas A through E. Each of the courses within these 30 units must be completed with a grade of 'C' or better. Additionally, at least one course from EACH of the following areas must be completed with a grade of 'C' or better **prior to transfer**:

- Area A1            Oral  
Communication Area  
Area A2            Writt  
en Communication
- Area A3            Critic  
al Thinking
- Area B4            Mathematics/Quantitative Reasoning

- 3. The student is in good standing (i.e., eligible to re-enroll) at the last college or university attended.

**II. IMPACTED PROGRAMS:**

The CSU designates programs as impacted when more applications are received from fully qualified applicants in the initial filing period (October 1 through November 30 for fall) than the number of spaces available. Some majors are impacted at every campus where they are offered; others may be impacted only at some campuses. **Applicants to impacted majors must file the application for admission during the initial filing period and will be subject to supplementary admission criteria.**

**III. LOWER DIVISION MAJOR REQUIREMENTS**

Most majors require that you complete certain preparatory courses prior to transfer. This can normally be accomplished at Crafton Hills College. Consult the catalog for the college of your choice to determine regulations governing the completion of lower division major requirements and related restrictions. Refer to ASSIST ([www.assist.org](http://www.assist.org)) for information about lower division major requirements, and consult with a counselor regarding transfer plans!

**IV. APPLICATION FILING PERIODS**

You are urged to file early! Applications to impacted majors must be filed during the initial filing period. If applying after the initial filing period, check [www.csummentor.edu](http://www.csummentor.edu) for current information. Most campuses will acknowledge receiving your application within two to four weeks. **You may apply online at [www.csummentor.edu](http://www.csummentor.edu).**

Terms	Applications First Accepted
Summer Semester or Quarter 2016	February 1, 2016
Fall Semester or Quarter 2016	October 1, 2015
Winter Quarter 2017	June 1, 2016
Spring Semester or Quarter 2017	August 1, 2016

**APPLICATION FEE**

An application fee of \$55 in U. S. funds, payable to The California State University, is required for each new application filed. The fee is nonrefundable and may not be transferred to another term at any campus. The fee is required for **each** campus to which you apply.



**Attachment C  
CRAFTON HILLS COLLEGE**

**Intersegmental General Education Transfer Curriculum for Transfer to CSU and UC 2015-16**

Student's Name \_\_\_\_\_  
 (print) Last First Middle Student I.D. # Major

Completion and certification of IGETC will permit community college students to transfer to a campus in the CSU or UC system with lower division requirements completed. **COURSES IN BOLD PRINT ARE RETROACTIVELY APPROVED FOR FALL 2014 AND THEREAFTER.**

**IGETC is not advisable for all transfer students.** Students with majors that require extensive lower division preparation may be best served by taking courses that fulfill the General Education Breadth of the UC campus. These majors include, but are not limited to, Engineering, Pre-professional programs, and Science.

**CERTIFICATION:** Request **CERTIFICATION** from the Admissions and Records Office. Current IGETC standards allow for full or partial certification. **Partial certification** is defined as completing all but two courses from any area **except those listed in Areas 1 and 2.** Minimum UC and/or CSU transfer requirements must be met prior to transfer. All courses must be completed with a "C" or better. IGETC may be certified by any Community College the student has attended.

**INSTRUCTION TO COUNSELORS:** Circle courses and enter units in appropriate column. **Requirements satisfied by exam should be noted.**

	OTHER COLLEGES AP EXAMS	COMPLETED	IN PROGRESS	REMAINING
<p><b>AREA 1 - ENGLISH COMMUNICATION</b></p> <p>CSU - 3 courses required, one from each group below.                      UC - 2 courses required, one from group A and one from group B</p>				
<p>A. English Composition, <b>1 course, 3 - 4 semester/</b> 4 - 5 quarter units.  <b>ENGL 101, 101H</b></p>				
<p>B. Critical Thinking - English Composition, <b>1 course, 3 - 4 semester/</b>                      4 - 5 quarter units.  <b>ENGL 102, 102H</b></p>				
<p>C. Oral Communication (CSU only), <b>1 course, 3 semester/</b>                      4 - 5 quarter units,  <b>COMMST 100, 100H, 111, 111H, 140</b></p>				
<p><b>AREA 2 - MATHEMATICAL CONCEPTS AND QUANTITATIVE REASONING</b>  <b>(1 course, 3 - 4 semester/</b> 4 - 5 quarter units)                      A. CSCI 200; <b>MATH 102**</b>, 108, <b>110, 115</b>, 141**, 160**, 200, 250, 251, 252, 265, 266;                      PSYCH 108</p>				
<p><b>AREA 3 - ARTS AND HUMANITIES</b>  <b>(At least 3 courses with at least one from the Arts and one from the Humanities,</b>  <b>9 semester/</b>12 - 15 quarter units.)                      A. ARTS: <b>ART 100, 100H, 102, 102H</b>, 103, 105, <b>113</b>; <b>DANCE 200, 200H</b>; ENGL 108, 109, 226;  <b>MUSIC 100, 103, 103H, 120, 120H, 134</b>; THART 100, 100H, 108, 109, 226</p>				
<p>B. HUMANITIES: ANTHRO 107*, 110*; ARABIC 103, 104; ASL 103, 104; <b>ENGL 150,</b>                      152, <b>155</b>, 155H, <b>160</b>, 163, 170, 175, 250, 260, 261, 270, 271, 275, 280, 281; FRENCH 103,                      104; <b>HIST 100*</b>, 100H*, <b>101*</b>, 101H*, 107*, <b>135*</b>, 145*, <b>150*</b>, 170*, 170H*, 171*, 171H*;  <b>HUM 101, 102, 140</b>; JAPN 103, 104; MCS 110, <b>136*</b>; <b>PHIL 101</b>, 101H, 105, 105H;  <b>RELIG 100, 100H, 101, 101H, 110*, 113, 120,* 135*</b>, 175, 176; SPAN 103, 104</p>				

**AREA 4 - SOCIAL AND BEHAVIORAL SCIENCES**

(At least 3 courses from at least two disciplines, 9 semester/ 12 - 15 quarter units)

- A. ANTHRO 100, **102**, 102H, **106\***, 106H\*, 107\*, 110\*, HIST 107\*, RELIG 110\*
- B. **ECON 100\*\***, **200**, 200H, **201**, 201H
- C. **MCS 132**, SOC 141\*
- D. **MCS 120**, **SOC 145\*** E.  
GEOG 102, 102H, 120
- F. ANTHRO 107\*, **HIST 100\***, 100H\*, **101\***, 101H\*, 107\*, **135\***, 145\*, **150\***, 170\*, 170H\*, 171\*, 171H\*; **RELIG 135\***
- G. **CD 105**, **COMMST 135**, **174**, **JOUR 135**, MCS 110, **136\***, **RELIG 120\***, **SOC 130**
- H. POLIT 100, 100H, 102, 104, 106, 110, **122**
- I. **PSYCH 100**, 100H, **102**, **103**, **110**, **111**, **118**, SOC 150\* J.

OTHER COLLEGES AP EXAMS	COMPLETED	IN PROGRESS	REMAINING

**AREA 5 - PHYSICAL AND BIOLOGICAL SCIENCES**

(2 courses required, one Physical Science course and one Biological Science course; at least one must include a laboratory. 7 - 9 semester/ 9 - 12 quarter units.)

- A. PHYSICAL: ASTRON 150, 150H, 160; **CHEM 101\*\***, **102\*\***, 123, 150, 150H, 151, 151H, 212, 213; **ENVS 101\***, **101H\***; **ENVS 110\***; GEOG 110, 110H, 111, 111H, 114, 115, 126; **GEOL 100**, 100H, **101**, 101H, 112\*\*, 113\*\*, 150, 150H, 160, 250; **OCEAN 100\*\***, **101\*\***, 101H\*\*, **PHYSIC 100\*\***, **110\*\***, **111\*\***, **200\*\***, **201\*\***, **250\*\***, **251\*\***, **252\*\***, **PS 101**

- B. BIOLOGICAL: ANAT 150, 151; **ANTHRO 106\***, 106H\*; BIOL 100, 123, 130, 130H, 131, **131H**; **ENVS 101\***, **101H\***; **ENVS 110\***; MICRO 102\*\*, 150\*\*

- C. LABORATORY: This requirement is met by completion of any laboratory course in 5A or 5B. Laboratory courses are underlined.


**UC REQUIREMENT ONLY - Language Other Than English**

Proficiency equivalent to two years of high school with grades of "C" or better, or one year of college study in the same language.

The following courses at this institution fulfill the requirement.

- ARABIC 102, 103, 104, ASL 102, 103, 104, FRENCH 102, 103, 104; JAPN 102, 103, 104, RUS 102, SPAN 102, 103, 104, 157, 158

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**CSU GRADUATION REQUIREMENT ONLY - U.S. History, Constitution and American Ideals**

(This area is not part of IGETC. Courses **MAY** be used to partially satisfy areas 3B or 4 per current IGETC Standards.)

(6 semester units, one course from group 1 and one course from group 2)

- Group 1 - POLIT 100, POLIT 100H, Group 2 - **HIST 100**, 100H, **101**, 101H

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\* Course may be listed in more than one area, but may not be applied in more than one area.

\*\* Indicates that transfer credit may be limited by UC or CSU or both. Please see the catalog or consult a counselor.

NOTE: Approved courses are added to the IGETC each year. When a course is approved for IGETC, it will apply ONLY for the year of approval and thereafter.

## Attachment D Crafton Hills College

### Multidisciplinary Degrees

Multidisciplinary degrees are designed for students who have broad interest in a particular area that expands beyond a single discipline. These degrees provide an option to students wishing to explore a variety of related disciplines or to prepare for any number of fields. Students will need to complete CHC's general education requirements to earn these degrees. The discipline-specific courses may not prepare students for transferring into a major at a four-year college.

### Associate of Arts Fine Arts Degree

The Associate of Arts Fine Arts degree focuses on the development of creative expression and critical inquiry in music and the arts. Students will appreciate the value of artistic expression and human creativity in the fine arts and evaluate them as part of human culture and human creativity. This degree is multidisciplinary giving students the knowledge and experience in theatre arts, the visual arts, music and dance.

To complete the requirements for the Associate of Arts for this degree, a student must:

1. Complete the requirements for an associate degree (see requirements 1 through 6).
2. Complete a minimum of eighteen (18) units with a "C" or better in each course in the following multidisciplinary program.
3. Complete elective units to meet the minimum 60 units required for the associate degree.

### Major/Program Requirements

#### Required Courses:

A minimum of six (6) units must be taken from the following courses in at least two disciplines.

<b>ART 100</b>	<b>Art History I: Prehistoric Art to Medieval Art</b>	<b>3.00</b>
<b>ART 102</b>	<b>Art History II: Renaissance Art to Contemporary Art</b>	<b>3.00</b>
<b>MUSIC 103</b>	<b>Appreciation of American Popular Music</b>	<b>3.00</b>
	OR	
<i>MUSIC 103H</i>	<i>Appreciation of American Popular Music-Honors</i>	<i>3.00</i>
<b>MUSIC 120</b>	<b>Appreciation of Musical Literature</b>	<b>3.00</b>
	OR	
<i>MUSIC 120H</i>	<i>Appreciation of Musical Literature- Honors</i>	<i>3.00</i>
THART 100	Introduction to Theatre	3.00
	OR	
THART 100H	Introduction to Theatre-Honors	3.00

**Students must complete at least (12) twelve additional units from the following courses in at least two disciplines:**

#### Art

<b>ART 100</b>	<b>Art History I: Prehistoric Art to Medieval Art</b>	<b>3.00</b>
<b>ART 102</b>	<b>Art History II: Renaissance Art to Contemporary Art</b>	<b>3.00</b>

ART 105	History of Modern Art	3.00
ART 119	Digital Video Production	3.00
ART 120	Foundations of Two-Dimensional Design	3.00
ART 121	Foundations of Three-Dimensional Design	3.00
ART 124	Drawing I	3.00
ART 126	Painting I	3.00
ART 132	Life Drawing I	3.00
ART 175	Sculpture	3.00
ART 200	Printmaking	3.00
ART 204	Contemporary Topics in American Art	1.00
ART 226	Painting II	3.00
ART 232	Life Drawing II	3.00

#### Music

MUSIC 100	Fundamental Skills in Music	3.00
MUSIC 101	Music Theory I	4.00
MUSIC 102	Music Theory II	4.00
MUSIC 103	Appreciation of American Popular Music	3.00
	OR	
MUSIC 103H	Appreciation of American Popular Music-Honors	3.00
MUSIC 120	Appreciation of Musical Literature	3.00
	OR	
MUSIC 120H	Appreciation of Musical Literature- Honors	3.00
MUSIC 132	Guitar I	2.00
MUSIC 133	Guitar II	2.00
MUSIC 134	Jazz History	3.00
MUSIC 135	Piano I	2.00
MUSIC 136	Piano II	2.00
MUSIC 150X4	Concert Choir	1.00
MUSIC 164X4	Concert Band	2.00
MUSIC 174X4	Jazz Band	1.00
MUSIC 179X4	Contemporary Ensemble	2.00
MUSIC 180X4	Musical Theatre Workshop	2.00
MUSIC 190	Songwriting and Composition	3.00
MUSIC 195	Music Technology and Recording	4.00
MUSIC 201	Music Theory III	4.00
MUSIC 202	Music Theory IV	4.00
MUSIC 232	Guitar III	2.00
MUSIC 233	Guitar IV	2.00
MUSIC 235	Piano III	2.00
MUSIC 236	Piano IV	2.00

#### Theatre Arts

THART 100	Introduction to Theatre	3.00
	OR	
THART 100H	Introduction to Theatre-Honors	3.00
THART 108	World Drama I	3.00
	OR	
ENGL 108	World Drama I	3.00
THART 109	World Drama II	3.00
	OR	
ENGL 109	World Drama II	3.00
THART 110	Voice and Diction	3.00

	OR		
COMMST 110	Voice and Diction	3.00	
THART 120	Beginning Acting	3.00	
THART 124X2	Beginning Performance Workshop	3.00	
THART 133	Audition Techniques	1.00	
THART 134X4	Technical Theatre Workshop	1.00	
THART 140X2	Intermediate Performance Workshop	3.00	
THART 145	Advanced Theatre Practicum I	3.00	
THART 150	Summer Theatre Workshop	3.00	
	OR		
DANCE	Dance Production Workshop	2.00	
174x4/THART 174X4			
THART 176	Fundamentals of Stagecraft I	3.00	
THART 179	Fundamentals of Stagecraft II	3.00	
THART 205	Play Directing	3.00	
THART 220	Intermediate Acting	3.00	
THART 221	Advanced Acting	3.00	
THART 226	Play and Screenplay Analysis	3.00	
	OR		
ENGL 226	Play and Screenplay Analysis	3.00	
THART 245	Advanced Theatre Practicum II	3.00	
THART 250	Advanced Summer Theatre Workshop	3.00	

Students planning to transfer to a four-year university are cautioned that this degree may not meet all of the lower division requirements for transfer into a particular major; however, through careful educational planning with a counselor, this degree would offer a solid foundation in the transfer process. Students should consult with a counselor for specific information regarding their intended major at their chosen university.

### **Associate of Arts Humanities Degree**

The Associate of Arts degree in Humanities emphasizes the study of cultural, literary, humanistic and artistic expression within the context of the human experience. Students will evaluate and interpret the ways in which people in different cultures have responded to themselves and the world around them throughout history. This degree is multidisciplinary, preparing students to transfer into majors such as history, English, philosophy, religious studies and other areas in the humanities.

To complete the requirements for the Associate of Arts degree, a student must:

1. To complete the requirements for an associate degree (see requirements 1 through 6).
2. Complete a minimum of eighteen (18) units with a "C" or better in each course in the following multidisciplinary program.
3. Complete elective units to meet the minimum 60 units required for the associate degree.

### **Major/Program Requirements**

#### **Required Core Courses:**

A minimum of three (3) three units must be taken from each of the following groups.

#### **History and Civilization**

HIST 170	World Civilizations (3500 BCE-1500 CE)	3.00
	OR	

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HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00
HIST 171	World Civilizations (1500 CE to the Present)	3.00
	OR	
HIST 171H	World Civilizations (1500 CE to the Present) - Honors	3.00
HUM 101	The Humanities I: Prehistoric to Medieval	3.00
HUM 102	The Humanities II: Renaissance to Post Modern	3.00
	<b>Philosophy and Religion</b>	
<b>PHIL 101</b>	<b>Introduction to Philosophy</b>	<b>3.00</b>
	OR	
PHIL 101H	Introduction to Philosophy-Honors	3.00
<b>PHIL 105</b>	<b>Introduction to Ethics: Moral Values in Today's Society</b>	<b>3.00</b>
	OR	
PHIL 105H	Introduction to Ethics: Moral Values in Today's Society-Honors	3.00
<b>RELIG 100</b>	<b>Introduction to Religious Studies</b>	<b>3.00</b>
	OR	
RELIG 100H	Introduction to Religious Studies-Honors	3.00
<b>RELIG 101</b>	<b>Introduction to World Religions</b>	<b>3.00</b>
	OR	
RELIG 101H	Introduction to World Religions-Honors	3.00
RELIG 110	Tribal and Ethnic Religions	3.00
	OR	
ANTHRO 110	Tribal and Ethnic Religions	3.00
<b>RELIG 135</b>	<b>Religion in America</b>	<b>3.00</b>
	OR	
<b>HIST 135</b>	<b>Religion in America</b>	<b>3.00</b>
RELIG 175	Literature and Religion of the Bible	3.00
	OR	
ENGL 175	Literature and Religion of the Bible	3.00
RELIG 113	Introduction to Eastern Religions	3.00
RELIG 176	Jesus and His Interpreters	3.00
ENGL 150	Classical Mythology	3.00
	<b>Fine Arts</b>	
ART 105	History of Modern Art	3.00
ENGL 170	The Film Experience	3.00
<b>HUM 140</b>	<b>Humanities Through the Arts</b>	<b>3.00</b>
<b>MUSIC 103</b>	<b>Appreciation of American Popular Music</b>	<b>3.00</b>
	OR	
MUSIC 103H	Appreciation of American Popular Music-Honors	3.00
<b>MUSIC 120</b>	<b>Appreciation of Musical Literature</b>	<b>3.00</b>
	OR	
MUSIC 120H	Appreciation of Musical Literature- Honors	3.00
<b>MUSIC 134</b>	<b>Jazz History</b>	<b>3.00</b>
THART 100	Introduction to Theatre	3.00
	OR	
THART 100H	Introduction to Theatre-Honors	3.00
	<b>Literature</b>	
ENGL 155	Children's Literature	3.00

	OR		
ENGL 155H	Children's Literature-Honors	3.00	
<b>ENGL 160</b>	<b>Literature by Women</b>	<b>3.00</b>	
ENGL 163	Chicano/Latino Literature	3.00	
ENGL 250	Fiction	3.00	
ENGL 260	Survey of American Literature I	3.00	
ENGL 261	Survey of American Literature II	3.00	
ENGL 270	Survey of British Literature I	3.00	
ENGL 271	Survey of British Literature II	3.00	
ENGL 275	Shakespeare	3.00	
ENGL 280	World Literature to the 17th Century	3.00	
ENGL 281	World literature from the 17th Century to the Present	3.00	

**One of the following:**

ENGL 108	World Drama I	3.00	
THART 108	World Drama I	3.00	
THART 109	World Drama II	3.00	

Students planning to transfer to a four-year university are cautioned that this degree may not meet all of the lower division requirements for transfer into a particular major; however, through careful educational planning with a counselor, this degree would offer a solid foundation in the transfer process. Students should consult with a counselor for specific information regarding their intended major at their chosen university.

**Associate of Arts Liberal Studies - Teacher Preparation Degree (THIS ONE MAY BE CLOSE)**

The Associate of Arts Liberal Studies-Teacher Preparation degree is designed for students intending to transfer to a four-year college or university with the goal of a career in teaching.

The courses in the degree satisfy CHC general education requirements for the associate degree, prepare students for the majority of their lower division courses in education, and fulfills the IGETC and CSU Breadth general education requirements and the courses needed for a degree in liberal studies at transfer institutions. Students should consult with a counselor for specific information regarding transfer coursework required at their chosen university.

**Major/Program Requirements**

**Required Courses:**

<b>CD 105</b>	<b>Child Growth and Development</b>	<b>3.00</b>	
CD 211	Observation and Methods in School-Age Development	3.00	
	OR		
CD 212	Observation and Methods in Early Child Development	3.00	
CD 295	Elementary Laboratory	3.00	
EDU 290	Introduction to Education	3.00	

**Students must complete at least (6) six units from the following courses:**

CD 182	Teaching in a Diverse Society	3.00	
<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b>	<b>3.00</b>	
	OR		
<b>BUSAD 230</b>	<b>Using Computers for Business</b>	<b>3.00</b>	

**Required General Education Courses:**

**Students should complete the following courses to fulfill the general education requirements of the associate degree.**

BIOL 100	General Biology	4.00	
MATH 115	The Ideas of Mathematics	3.00	
<b>HEALTH 102</b>	<b>Biological Principles of Health</b>	<b>3.00</b>	
<b>CHEM 101</b>	<b>Introduction to Chemistry</b>	<b>4.00</b>	
	OR		
PHYSIC 100	Introduction to Physics	4.00	
<b>ENGL 101</b>	<b>Freshman Composition</b>	<b>4.00</b>	
	OR		
ENGL 101H	Freshman Composition-Honors	4.00	
POLIT 100	American Politics	3.00	

	OR		
POLIT 100H	American Politics-Honors	3.00	

**Students must complete at least (3) three additional units from the following courses:**

HIST 100H	History of the United States to 1877- Honors	3.00	
<b>HIST 101</b>	<b>History of the United States 1865 to Present</b>	<b>3.00</b>	
	OR		
HIST 101H	History of the United States 1865 to Present- Honors	3.00	

**Students must complete at least (3) three additional units from the following courses:**

ENGL 152H	Intermediate Composition and Literature - Honors	4.00	
<b>ENGL 155</b>	<b>Children's Literature</b>	<b>3.00</b>	
	OR		
ENGL 155H	Children's Literature-Honors	3.00	
ENGL 280	World Literature to the 17th Century	3.00	
ENGL 281	World literature from the 17th Century to the Present	3.00	
ENGL 108	World Drama I	3.00	
	OR		
THART 108	World Drama I	3.00	
ENGL 109	World Drama II	3.00	
	OR		
THART 109	World Drama II	3.00	

**Students must complete at least (4) four additional units from the following courses:**

ARABIC 102	College Arabic II	5.00	
ARABIC 103	College Arabic III	5.00	
ARABIC 104	College Arabic IV	5.00	
ASL 102	American Sign Language II	4.00	
ASL 103	American Sign Language III	4.00	
ASL 104	American Sign Language IV	4.00	
FRENCH 102	College French II	5.00	
FRENCH 103	College French III	5.00	
FRENCH 104	College French IV	5.00	
JAPN 102	College Japanese II	5.00	
JAPN 103	College Japanese III	5.00	
JAPN 104	College Japanese IV	5.00	
SPAN 102	College Spanish II	5.00	

SPAN 103	College Spanish III	5.00
SPAN 104	College Spanish IV	5.00

**Students must complete at least (3) three additional units from the following courses:**

HUM 101	The Humanities I: Prehistoric to Medieval	3.00
HUM 102	The Humanities II: Renaissance to Post Modern	3.00

**PHIL 101 Introduction to Philosophy 3.00**  
OR

PHIL 101H Introduction to Philosophy-Honors 3.00

**PHIL 105 Introduction to Ethics: Moral Values in Today's Society 3.00**  
OR

PHIL 105H Introduction to Ethics: Moral Values in Today's Society-Honors 3.00

**RELIG 100 Introduction to Religious Studies 3.00**  
OR

RELIG 100H Introduction to Religious Studies-Honors 3.00

**RELIG 101 Introduction to World Religions 3.00**  
OR

RELIG 101H Introduction to World Religions-Honors 3.00

**Students must complete at least (3) three additional units from the following courses:**

**ART 100 Art History I: Prehistoric Art to Medieval Art 3.00**

**ART 102 Art History II: Renaissance Art to Contemporary Art 3.00**

**MUSIC 120 Appreciation of Musical Literature 3.00**  
OR

MUSIC 120H Appreciation of Musical Literature- Honors 3.00

THART 100 Introduction to Theatre 3.00  
OR

THART 100H Introduction to Theatre-Honors 3.00

**Students must complete at least (3) three additional units from the following courses:**

**COMMST 100 Elements of Public Speaking 3.00**  
OR

COMMST 100H Elements of Public Speaking- Honors 3.00

COMMST 111 Interpersonal Communication 3.00  
OR

COMMST 111H Interpersonal Communication-Honors 3.00

COMMST 140 Small Group Communication 3.00

**Students must complete at least (3) three additional units from the following courses:**

**ENGL 102 Intermediate Composition and Critical Thinking 4.00**  
OR

ENGL 102H Intermediate Composition and Critical Thinking-Honors 4.00

**COMMST 125 Critical Thinking through Argumentation and Debate 3.00**  
OR

COMMST 125H Critical Thinking through Argumentation and Debate-Honors 3.00

**PHIL 103 Introduction to Logic: Argument and 3.00**

## Evidence

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Associate of Arts Social Science Degree

The Associate of Arts degree Social Science emphasizes the study of social and behavioral sciences. Students will recognize, describe and analyze individual behaviors and social institutions that influence our world. This degree is multidisciplinary preparing students to transfer in majors such as psychology, sociology, political science, history, anthropology and religious studies.

To complete the requirements for the Associate of Arts for this degree, a student must:

1. Complete the requirements for an associate degree (see requirements 1 through 6).
2. Complete a minimum of eighteen (18) units with a "C" or better in each course in the following multidisciplinary program.
3. Complete elective units to meet the minimum 60 units required for the associate degree.

## Major/Program Requirements

A minimum of (3) three units must be taken from each of the following groups:

### Required Courses:

#### History and Culture

**ANTHRO 102 Cultural Anthropology 3.00**  
OR

ANTHRO 102H Cultural Anthropology-Honors 3.00

GEOG 102 Cultural Geography 3.00  
OR

GEOG 102H Cultural Geography-Honors 3.00

GEOG 120 World Regional Geography 3.00

**HIST 100 History of the United States to 1877 3.00**  
OR

HIST 100H History of the United States to 1877- Honors 3.00

**HIST 101 History of the United States 1865 to Present 3.00**  
OR

HIST 101H History of the United States 1865 to Present- Honors 3.00

HIST 170 World Civilizations (3500 BCE-1500 CE) 3.00  
OR

HIST 170H World Civilizations (3500 BCE-1500 CE) - Honors 3.00

HIST 171 World Civilizations (1500 CE to the Present) 3.00  
OR

HIST 171H World Civilizations (1500 CE to the Present) - Honors 3.00

#### Political and Social Institutions

**ECON 100 Introduction to Economics 3.00**

**ECON 200 Principles of Macroeconomics 3.00**

	OR		
ECON 200H	Principles of Macroeconomics-Honors	3.00	
<b>ECON 201</b>	<b>Principles of Microeconomics</b>	<b>3.00</b>	
	OR		
ECON 201H	Principles of Microeconomics-Honors	3.00	
POLIT 100	American Politics	3.00	
	OR		
POLIT 100H	American Politics-Honors	3.00	
POLIT 102	California Politics and Culture	3.00	
POLIT 104	Introduction to Comparative Politics	3.00	
POLIT 106	Introduction to World Politics	3.00	
POLIT 110	Introduction to Political Theory	3.00	
<b>Philosophy and Religion</b>			
<b>PHIL 101</b>	<b>Introduction to Philosophy</b>	<b>3.00</b>	
	OR		
PHIL 101H	Introduction to Philosophy-Honors	3.00	
<b>PHIL 105</b>	<b>Introduction to Ethics: Moral Values in Today's Society</b>	<b>3.00</b>	
	OR		
PHIL 105H	Introduction to Ethics: Moral Values in Today's Society-Honors	3.00	
RELIG 110	Tribal and Ethnic Religions	3.00	
	OR		
ANTHRO 110	Tribal and Ethnic Religions	3.00	
<b>RELIG 135</b>	<b>Religion in America</b>	<b>3.00</b>	
	OR		
<i>HIST 135</i>	<i>Religion in America</i>	<i>3.00</i>	
<b>RELIG 100</b>	<b>Introduction to Religious Studies</b>	<b>3.00</b>	
	OR		
RELIG 100H	Introduction to Religious Studies-Honors	3.00	
<b>RELIG 101</b>	<b>Introduction to World Religions</b>	<b>3.00</b>	
	OR		
RELIG 101H	Introduction to World Religions-Honors	3.00	
RELIG 113	Introduction to Eastern Religions	3.00	
RELIG 176	Jesus and His Interpreters	3.00	
<b>Behavioral Science</b>			
<b>CD 105</b>	<b>Child Growth and Development</b>	<b>3.00</b>	
CD 126	Child, Family and Community	3.00	
<b>PSYCH 100</b>	<b>General Psychology</b>	<b>3.00</b>	
	OR		
PSYCH 100H	General Psychology- Honors	3.00	
<b>PSYCH 102</b>	<b>Personal and Social Adjustment</b>	<b>3.00</b>	
<b>PSYCH 103</b>	<b>Theories of Personality</b>	<b>3.00</b>	
<b>PSYCH 110</b>	<b>Abnormal Psychology</b>	<b>3.00</b>	
<b>PSYCH 111</b>	<b>Developmental Psychology: Lifespan</b>	<b>3.00</b>	
<b>PSYCH 118</b>	<b>Human Sexual Behavior</b>	<b>3.00</b>	
<b>SOC 100</b>	<b>Introduction to Sociology</b>	<b>3.00</b>	
	OR		
SOC 100H	Introduction to Sociology-Honors	3.00	
<b>SOC 105</b>	<b>Social Problems</b>	<b>3.00</b>	
<b>SOC 130</b>	<b>Marriage, Family and Intimate Relationships</b>	<b>3.00</b>	
SOC 141	Minority Relations	3.00	
SOC 150	Gerontology	3.00	

Students planning to transfer to a four-year university are cautioned that this degree may not meet all of the lower division requirements for transfer into a particular major; however, through careful educational planning with a counselor, this degree would offer a solid foundation in the transfer process. Students should consult with a counselor for specific information regarding their intended major at their chosen university.

### **Associate of Science Environmental Science Degree**

The Associate of Science degree in Environmental Science provides students with the basic content required for students majoring in Environmental Sciences, with emphasis in the fields of biology and the geosciences. The study of the environment provides the general knowledge necessary to understand our role on our planet.

To complete the requirements for the Associate of Science degree, a student must:

1. Complete the requirements for an associate degree (see requirements 1 through 6).
2. Complete a minimum of (18) eighteen units with a "C" or better in each course in the following multidisciplinary program.
3. Complete elective units to meet the minimum 60 units required for the associate degree.

### **Major/Program Requirements**

#### **Required Courses**

##### **One of the following:**

BIOL 100	General Biology	4.00
BIOL 130	Cell and Molecular Biology	4.00
BIOL 130H	Cell and Molecular Biology-Honors	4.00

##### **One of the following:**

<b>CHEM 101</b>	<b>Introduction to Chemistry</b>	<b>4.00</b>
CHEM 150	General Chemistry I	5.00
CHEM 150H	General Chemistry I-Honors	5.00

##### **One of the following sequences:**

GEOL 100	Physical Geology	4.00
	OR	
GEOL 100H	Physical Geology-Honors	4.00
	OR	
GEOL 160	Geology Laboratory	1.00
	AND	
<b>GEOL 101</b>	<b>Introduction to Geology</b>	<b>3.00</b>
	OR	
GEOL 101H	Introduction to Geology-Honors	3.00

***In addition to the required coursework, each student must choose an emphasis and take at least (12) twelve units from one of the following areas:***

#### **Emphasis in Biological Sciences**

CHEM 151	General Chemistry II	5.00
	OR	
CHEM 151H	General Chemistry II-Honors	5.00
<b>CHEM 102</b>	<b>Introduction to Organic Chemistry</b>	<b>4.00</b>
	OR	
CHEM 212	Organic Chemistry I	4.00
BIOL 123	Ecology and Environment	3.00

BIOL 131	Populations and Organisms	4.00
CHEM 213	Organic Chemistry II	4.00
<b>Emphasis in Geoscience Studies</b>		
GEOG 110	Physical Geography	3.00
	OR	
GEOG 110H	Physical Geography-Honors	3.00
GEOG 111	Physical Geography Laboratory	1.00
	OR	
GEOG 111H	Physical Geography Laboratory-Honors	1.00
GEOL 150	Geology and the Environment	3.00
	OR	
GEOL 150H	Geology and the Environment-Honors	3.00
GEOG 126	Geography of California	3.00
GEOL 170	Geologic History of the Great Basin	1.00
GEOL 175	Geology of the Eastern Mojave Desert	1.00
GEOL 177	Geology of the High Desert and Western Mojave Desert Region	1.00
GEOL 180	Geology of Joshua Tree National Park	1.00
GEOL 181	Geology of the Anza Borrego Region	1.00
GEOL 190	Geology of the Eastern Sierra Nevada, Northern Section	1.00
GEOL 250	Geology of California	3.00
GEOL 270	Geology of the Eastern Sierra Nevada	1.00
<b>ANTHRO 106</b>	<b>Biological Anthropology</b>	<b>3.00</b>
	OR	
ANTHRO 106H	Biological Anthropology-Honors	3.00
CHEM 151	General Chemistry II	5.00
	OR	
CHEM 151H	General Chemistry II-Honors	5.00
PHYSIC 100	Introduction to Physics	4.00
	OR	
PHYSIC 110	General Physics I	4.00
PHYSIC 250	College Physics I	4.00

Students planning to transfer to a four-year university are cautioned that this degree may not meet all of the lower division requirements for transfer into a particular major; however, through careful educational planning with a counselor, this degree would offer a solid foundation in the transfer process. Students should consult with a counselor for specific information regarding their intended major at their chosen university.

### **Associate of Science Multiple Sciences Degree**

The Associate of Science Multiple Sciences degree emphasizes the role of science, scientific inquiry and technology in our world. Students will apply a problem solving strategy such as the scientific method or other systematic process of inquiry and recognize the contributions of science and technology in our world. This degree is multidisciplinary, giving students the knowledge and experience in both the physical and biological sciences.

To complete the requirements for the Associate of Science degree, a student must:

1. Complete the requirements for an associate degree (see requirements 1 through 6).
2. Complete a minimum of eighteen (18) semester units with a "C" or better in each course in the following multidisciplinary program.

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3. Complete elective units to meet the minimum 60 total units required for the associate degree.

### **Major/Program Requirements**

#### **Required Courses:**

A minimum of six (6) six units must be taken from two of the following three groups:

#### **Physical Sciences**

ASTRON 150	Introduction to Astronomy	3.00
	OR	
ASTRON 150H	Introduction to Astronomy-Honors	3.00
ASTRON 160	Astronomy Laboratory	1.00
<b>CHEM 101</b>	<b>Introduction to Chemistry</b>	<b>4.00</b>
<b>CHEM 102</b>	<b>Introduction to Organic Chemistry</b>	<b>4.00</b>
<b>CHEM 123</b>	<b>Chemistry for Everyone</b>	<b>3.00</b>
CHEM 150	General Chemistry I	5.00
	OR	
CHEM 150H	General Chemistry I-Honors	5.00
CHEM 151	General Chemistry II	5.00
	OR	
CHEM 151H	General Chemistry II-Honors	5.00
CHEM 212	Organic Chemistry I	4.00
CHEM 213	Organic Chemistry II	4.00
ENGR 101	Introduction to Engineering	3.00
PHYSIC 100	Introduction to Physics	4.00
PHYSIC 110	General Physics I	4.00
PHYSIC 111	General Physics II	4.00
PHYSIC 250	College Physics I	4.00
PHYSIC 251	College Physics II	4.00
PHYSIC 252	College Physics III	4.00

#### **Earth Sciences**

GEOL 100	Physical Geology	4.00
	OR	
GEOL 100H	Physical Geology-Honors	4.00
<b>GEOL 101</b>	<b>Introduction to Geology</b>	<b>3.00</b>
	OR	
GEOL 101H	Introduction to Geology-Honors	3.00
GEOL 112	Historical Geology	4.00
GEOL 113	Earth and Life History	3.00
GEOL 150	Geology and the Environment	3.00
	OR	
GEOL 150H	Geology and the Environment-Honors	3.00
GEOL 160	Geology Laboratory	1.00
GEOL 170	Geologic History of the Great Basin	1.00
GEOL 175	Geology of the Eastern Mojave Desert	1.00
GEOL 177	Geology of the High Desert and Western Mojave Desert Region	1.00
GEOL 180	Geology of Joshua Tree National Park	1.00
GEOL 181	Geology of the Anza Borrego Region	1.00
GEOL 190	Geology of the Eastern Sierra Nevada, Northern Section	1.00
GEOL 250	Geology of California	3.00
GEOL 270	Geology of the Eastern Sierra Nevada	1.00
GEOG 110	Physical Geography	3.00



	OR		
GEOG 110H	Physical Geography-Honors	3.00	
GEOG 111	Physical Geography Laboratory	1.00	
	OR		
GEOG 111H	Physical Geography Laboratory-Honors	1.00	
GEOG 126	Geography of California	3.00	
<b>OCEAN 100</b>	<b>Investigations in Oceanography</b>	<b>4.00</b>	
<b>OCEAN 101</b>	<b>Elements of Oceanography</b>	<b>3.00</b>	
	OR		
OCEAN 101H	Elements of Oceanography-Honors	3.00	
<b>Biological Sciences</b>			
ANAT 101	Essentials of Human Anatomy and Physiology	4.00	
ANAT 150	Human Anatomy and Physiology I	4.00	
ANAT 151	Human Anatomy and Physiology II	4.00	
<b>ANTHRO 106</b>	<b>Biological Anthropology</b>	<b>3.00</b>	
	OR		
ANTHRO 106H	Biological Anthropology-Honors	3.00	
BIOL 100	General Biology	4.00	
BIOL 123	Ecology and Environment	3.00	
BIOL 130	Cell and Molecular Biology	4.00	
	OR		
BIOL 130H	Cell and Molecular Biology-Honors	4.00	
BIOL 131	Populations and Organisms	4.00	
<b>HEALTH 263</b>	<b>Nutrition and Health</b>	<b>3.00</b>	
	OR		
HEALTH 263H	Nutrition and Health-Honors	3.00	
MICRO 102	Introductory Microbiology	4.00	
MICRO 150	Medical Microbiology	5.00	

Students planning to transfer to a four-year university are cautioned that this degree may not meet all of the lower division requirements for transfer into a particular major; however, through careful educational planning with a counselor; this degree would offer a solid foundation in the transfer process. Students should consult with a counselor for specific information regarding their intended major at their chosen university.

## **Associate of Science Health Sciences Degree**

The Associate of Science degree in Health Sciences allows students to explore many aspects of science and health-related issues. This degree prepares students for health care professional programs including nursing, dental hygiene and other health professional programs.

To complete the requirements for the Associate of Science for this degree, a student must:

1. Complete the requirements for an associate degree (see requirements 1 through 6).
2. Complete a minimum of eighteen (18) units with a "C" or better in each course in the following multidisciplinary degree.
3. Complete enough elective units to meet the minimum 60 units required for the associate degree.

## **Major/Program Requirements**

### **Required Core Courses**

**CHEM 101**      **Introduction to Chemistry**      **4.00**

ANAT 150	Human Anatomy and Physiology I	4.00
ANAT 151	Human Anatomy and Physiology II	4.00
MICRO 150	Medical Microbiology	5.00
<b>ENGL 101</b>	<b>Freshman Composition</b>	<b>4.00</b>
	OR	
ENGL 101H	Freshman Composition-Honors	4.00
<b>One of the following:</b>		
<b>COMMST 100</b>	<b>Elements of Public Speaking</b>	<b>3.00</b>
COMMST 100H	Elements of Public Speaking- Honors	3.00
COMMST 111	Interpersonal Communication	3.00
COMMST 111H	Interpersonal Communication-Honors	3.00
<b>One of the following:</b>		
<b>PSYCH 100</b>	<b>General Psychology</b>	<b>3.00</b>
PSYCH 100H	General Psychology- Honors	3.00
PSYCH 111	Developmental Psychology: Lifespan	3.00
<b>One of the following:</b>		
<b>SOC 100</b>	<b>Introduction to Sociology</b>	<b>3.00</b>
SOC 100H	Introduction to Sociology-Honors	3.00
<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
ANTHRO 102H	Cultural Anthropology-Honors	3.00

This major sequence includes prerequisite courses common to many nursing, dental hygiene and other health professional programs. However, admissions requirements do vary from program to program. Prospective students should consult a counselor or the program to which they are applying for specific admissions requirements.

## ATTACHMENT E

### CHC DEGREES, MAJOR PREPARATION

## American Sign Language (ASL)

**Department:** Communication & Language

**Faculty Chair:** Breanna Andrews, M.A.

**Faculty:** Breanna Andrews, M.A.

### American Sign Language - Associate of Arts Degree

The American Sign Language major at Crafton Hills College is comprised of the four introductory courses in American Sign Language and one course in Deaf Culture. Students must also complete at least two units from the list of elective courses.

#### Major/Program Requirements

##### Required Courses:

ASL 101	American Sign Language I	4.00
ASL 102	American Sign Language II	4.00
ASL 103	American Sign Language III	4.00
ASL 104	American Sign Language IV	4.00
MCS 110	The American Deaf Experience: Introduction to Deaf Studies	3.00

##### Students must complete at least two (2) units from the following courses:

ASL 105	American Sign Language V	3.00
ASL 200	Introduction to Interpreting for the Deaf	3.00
ASL 205	Fingerspelling, Numbers, Classifiers, and Non-Manuals	2.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

### American Sign Language Certificate of Achievement

The Certificate provides students' with the knowledge and skills necessary to communicate with intermediate proficiency in American Sign Language (ASL).

#### Major/Program Requirements

##### Required Courses

ASL 101	American Sign Language I	4.00
ASL 102	American Sign Language II	4.00
ASL 103	American Sign Language III	4.00
ASL 104	American Sign Language IV	4.00

## Anatomy (ANAT)

**Department:** Physical & Biological Sciences

**Faculty Chair:** Sam Truong, M.D.

**Faculty:** Sam Truong, M.D.

### Anatomy - Associate of Science Degree see BIOLOGY (p. 23)

## Anthropology (ANTHRO)

**Department:** Social Science

**Faculty Chair:** Julie McKee, M.A.

### Associate in Arts in Anthropology for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Anthropology at Crafton Hills College is designed to meet the needs of students transferring to a California State University or University of California who intend to major in Anthropology or a related field of study. Students earning this degree will be able to utilize anthropological theories and research methods to make the unfamiliar familiar and make the familiar unfamiliar; apply archeological and anthropological research methods and explain which would be appropriate in this investigation; identify the components of culture and explain their application to the interpersonal and organizational experience of a given case study; and define ethnocentrism and appraise its role in maintaining social solidarity and its impact on tolerance, pluralism and diversity.

#### Major/Program Requirements

##### Required Courses:

<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
	<b>OR</b>	
ANTHRO 102H	Cultural Anthropology-Honors	3.00
<b>ANTHRO 106</b>	<b>Biological Anthropology</b>	<b>3.00</b>
	<b>OR</b>	
ANTHRO 106H	Biological Anthropology-Honors	3.00
ANTHRO 100	Introduction to Archaeology	3.00

## CHC Degrees, Major Preparation | 19

MATH 110	Introduction to Probability and Statistics OR	4.00
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00

**Students must complete at least three (3) units from the following list:**

GEOL 100	Physical Geology OR	4.00
GEOL 100H	Physical Geology-Honors	4.00

**PSYCH 101      Research Methods      3.00**

**Students may substitute GEOL 101** and GEOL 160 in lieu of GEOL 100. See a counselor for details.  
Students may substitute GEOL 101H and GEOL 160 in lieu of GEOL 100H. See a counselor for details.

**Students must complete at least three (3) additional units from the following list:**

ANTHRO 110	Tribal and Ethnic Religions OR	3.00
RELIG 110	Tribal and Ethnic Religions	3.00
ANTHRO 107	The United States and the North American Indians OR	3.00
HIST 107	The United States and the North American Indians	3.00

**COMMST 174      Communication in a Diverse World      3.00**

GEOG 102	Cultural Geography OR	3.00
GEOG 102H	Cultural Geography-Honors	3.00
GEOG 120	World Regional Geography	3.00

**RELIG 101      Introduction to World Religions      3.00**  
OR

RELIG 101H      Introduction to World Religions-Honors      3.00

**SOC 100      Introduction to Sociology      3.00**  
OR

SOC 100H      Introduction to Sociology-Honors      3.00

SOC 141      Minority Relations      3.00

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www-assist.org](http://www-assist.org).*

## Anthropology - Associate of Arts Degree

### Major/Program Requirements

#### Required Courses:

<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
	OR	
ANTHRO 102H	Cultural Anthropology-Honors	3.00

**ANTHRO 106      Biological Anthropology      3.00**  
OR

ANTHRO 106H      Biological Anthropology-Honors      3.00

**Students must complete at least twelve (12) units from the following courses:**

ANTHRO 100	Introduction to Archaeology	3.00
ANTHRO 107	The United States and the North American Indians OR	3.00
HIST 107	The United States and the North American Indians	3.00

ANTHRO 110      Tribal and Ethnic Religions      3.00  
OR

RELIG 110      Tribal and Ethnic Religions      3.00

GEOG 102      Cultural Geography      3.00  
OR

GEOG 102H      Cultural Geography-Honors      3.00

GEOG 110      Physical Geography      3.00  
OR

GEOG 110H      Physical Geography-Honors      3.00

MATH 110      Introduction to Probability and Statistics      4.00  
OR

PSYCH 120      Statistics for the Social and Behavioral  
Sciences      4.00

**SOC 100      Introduction to Sociology      3.00**  
OR

SOC 100H      Introduction to Sociology-Honors      3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www-assist.org](http://www-assist.org).

#### A student receiving a degree in this field will be able to:

- Utilize anthropological theories and research methods to "make the unfamiliar familiar, and make the familiar unfamiliar"
- Apply archeological and anthropological research methods, and explain which would be appropriate in the investigation
- Identify the components of "culture" and explain the application to the interpersonal and organizational experience of a given case

## CHC Degrees, Major Preparation | 20

study, covering topics such as the roles of legends, symbolism, rites of passage, linguistics and drug use

- Define ethnocentrism and appraise its role in maintaining societal solidarity and its impact on tolerance, pluralism and diversity

## Arabic (ARABIC)

**Department:** Communication & Language

**Faculty Chair:** Breanna Andrews, M.A.

### Arabic - Associate of Arts Degree

#### Major/Program Requirements

##### Required Courses:

ARABIC 101	College Arabic I	5.00
ARABIC 102	College Arabic II	5.00
ARABIC 103	College Arabic III	5.00
ARABIC 104	College Arabic IV	5.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

##### A student receiving a degree in this field will be able to:

- Demonstrate language proficiency by writing and speaking Arabic at a beginning to intermediate level
- Interpret written and spoken messages in Arabic at a beginning to intermediate level
- Demonstrate appropriate knowledge of the Arab world regarding social interactions, beliefs, values, arts, literature, music and geography
- Define the concept of culture, appreciate other cultures and interact with members of those cultures in relation to their own
- Apply their knowledge of Arabic language and culture beyond the classroom in interactions within multicultural communities and the world

## Art (ART)

**Department:** Fine Arts

**Faculty Chair:** Mark McConnell, M.M.

**Faculty:** Jessica McCambly, M.F.A., Snezana Petrovic, M.F.A.

### Associate in Arts in Art History for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Art History at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Art, Art History or a related field of study.

#### Major/Program Requirements

##### Required Courses:

<b>ART 100</b>	<b>Art History I: Prehistoric Art to Medieval Art</b>	<b>3.00</b>
	OR	

ART 100H	Art History I: Prehistoric Art to Medieval Art-Honors	3.00
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<b>ART 102</b>	<b>Art History II: Renaissance Art to Contemporary Art</b>	<b>3.00</b>
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	OR	
ART 102H	Art History II: Renaissance Art to Contemporary Art-Honors	3.00

ART 113	Survey of Asian Art	3.00
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ART 124	Drawing I	3.00
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**Students must complete at least three (3) units from the following list:**

<b>ART 120</b>	<b>Foundations of Two-Dimensional Design</b>	<b>3.00</b>
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ART 121	Foundations of Three-Dimensional Design	3.00
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ART 126	Painting I	3.00
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ART 132	Life Drawing I	3.00
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ART 175	Sculpture	3.00
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ART 200	Printmaking	3.00
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**Students must complete at least three (3) additional units from the following list:**

ART 105	History of Modern Art	3.00
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ART 120	Foundations of Two-Dimensional Design	3.00
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ART 121	Foundations of Three-Dimensional Design	3.00
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ART 126	Painting I	3.00
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ART 132	Life Drawing I	3.00
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ART 175	Sculpture	3.00
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ART 200	Printmaking	3.00
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ANTHRO 100	Introduction to Archaeology	3.00
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<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
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	OR	
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ANTHRO 102H	Cultural Anthropology-Honors	3.00
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ARABIC 101	College Arabic I	5.00
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ARABIC 102	College Arabic II	5.00
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ARABIC 103	College Arabic III	5.00
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ARABIC 104	College Arabic IV	5.00
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ENGL 150	Classical Mythology	3.00
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<b>ENGL 160</b>	<b>Literature by Women</b>	<b>3.00</b>
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ENGL 163	Chicano/Latino Literature	3.00
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ENGL 170	The Film Experience	3.00
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ENGL 280	World Literature to the 17th Century	3.00
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ENGL 281	World literature from the 17th Century to the Present	3.00
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FRENCH 101	College French I	5.00
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FRENCH 102	College French II	5.00
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FRENCH 103	College French III	5.00
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FRENCH 104	College French IV	5.00
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HIST 170	World Civilizations (3500 BCE-1500 CE)	3.00
	OR	

HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00
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HIST 171	World Civilizations (1500 CE to the Present) OR	3.00	ART 175	Sculpture	3.00
HIST 171H	World Civilizations (1500 CE to the Present) - Honors	3.00	ART 200	Printmaking	3.00
HUM 101	The Humanities I: Prehistoric to Medieval	3.00	<b>Students must complete at least three (3) additional units from the following list:</b>		
HUM 102	The Humanities II: Renaissance to Post Modern	3.00	ART 105	History of Modern Art	3.00
<b>HUM 140</b>	<b>Humanities Through the Arts</b>	<b>3.00</b>	<b>ART 120</b>	<b>Foundations of Two-Dimensional Design</b>	<b>3.00</b>
JAPN 101	College Japanese I	5.00	ART 121	Foundations of Three-Dimensional Design	3.00
JAPN 102	College Japanese II	5.00	ART 126	Painting I	3.00
JAPN 103	College Japanese III	5.00	ART 132	Life Drawing I	3.00
JAPN 104	College Japanese IV	5.00	ART 175	Sculpture	3.00
<b>PHIL 101</b>	<b>Introduction to Philosophy</b>	<b>3.00</b>	ART 200	Printmaking	3.00
PHIL 101H	Introduction to Philosophy-Honors	3.00	<b>ANTHRO 100</b>	<b>Introduction to Archaeology</b>	<b>3.00</b>
<b>RELIG 101</b>	<b>Introduction to World Religions</b>	<b>3.00</b>	<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
RELIG 101H	Introduction to World Religions-Honors	3.00	OR		
RELIG 113	Introduction to Eastern Religions	3.00	ANTHRO 102H	Cultural Anthropology-Honors	3.00
SPAN 101	College Spanish I	5.00	ARABIC 101	College Arabic I	5.00
SPAN 102	College Spanish II	5.00	ARABIC 102	College Arabic II	5.00
SPAN 103	College Spanish III	5.00	ARABIC 103	College Arabic III	5.00
SPAN 104	College Spanish IV	5.00	ARABIC 104	College Arabic IV	5.00
SPAN 157	Spanish for Spanish Speakers I	5.00	ENGL 150	Classical Mythology	3.00
SPAN 158	Spanish for Spanish Speakers II	5.00	<b>ENGL 160</b>	<b>Literature by Women</b>	<b>3.00</b>

**Associate in Arts in Art History**

**Major/Program Requirements**

**Required Courses:**

<b>ART 100</b>	<b>Art History I: Prehistoric Art to Medieval Art</b>	<b>3.00</b>
	OR	
ART 100H	Art History I: Prehistoric Art to Medieval Art-Honors	3.00
<b>ART 102</b>	<b>Art History II: Renaissance Art to Contemporary Art</b>	<b>3.00</b>
	OR	
ART 102H	Art History II: Renaissance Art to Contemporary Art-Honors	3.00
ART 113	Survey of Asian Art	3.00
ART 124	Drawing I	3.00

**Students must complete at least three (3) units from the following list:**

ART 120	Foundations of Two-Dimensional Design	3.00
ART 121	Foundations of Three-Dimensional Design	3.00
ART 126	Painting I	3.00
ART 132	Life Drawing I	3.00

HIST 170	World Civilizations (3500 BCE-1500 CE) OR	3.00
HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00
HIST 171	World Civilizations (1500 CE to the Present) OR	3.00
HIST 171H	World Civilizations (1500 CE to the Present) - Honors	3.00
HUM 101	The Humanities I: Prehistoric to Medieval	3.00
HUM 102	The Humanities II: Renaissance to Post Modern	3.00
<b>HUM 140</b>	<b>Humanities Through the Arts</b>	<b>3.00</b>
JAPN 101	College Japanese I	5.00
JAPN 102	College Japanese II	5.00
JAPN 103	College Japanese III	5.00
JAPN 104	College Japanese IV	5.00
<b>PHIL 101</b>	<b>Introduction to Philosophy</b>	<b>3.00</b>
	OR	

PHIL 101H	Introduction to Philosophy-Honors	3.00
<b>RELIG 101</b>	<b>Introduction to World Religions</b>	<b>3.00</b>
	OR	
RELIG 101H	Introduction to World Religions-Honors	3.00
RELIG 113	Introduction to Eastern Religions	3.00
SPAN 101	College Spanish I	5.00
SPAN 102	College Spanish II	5.00
SPAN 103	College Spanish III	5.00
SPAN 104	College Spanish IV	5.00
SPAN 157	Spanish for Spanish Speakers I	5.00
SPAN 158	Spanish for Spanish Speakers II	5.00

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

### Associate in Arts in Studio Arts for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Studio Arts at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Art, Studio Arts or a related field of study.

#### Major/Program Requirements

##### Required Courses:

<b>ART 102</b>	<b>Art History II: Renaissance Art to Contemporary Art</b>	<b>3.00</b>
	OR	
ART 102H	Art History II: Renaissance Art to Contemporary Art-Honors	3.00
<b>ART 120</b>	<b>Foundations of Two-Dimensional Design</b>	<b>3.00</b>
ART 121	Foundations of Three-Dimensional Design	3.00
ART 124	Drawing I	3.00

**Students must complete at least three (3) units from the following list:**

<b>ART 100</b>	<b>Art History I: Prehistoric Art to Medieval Art</b>	<b>3.00</b>
	OR	
ART 100H	Art History I: Prehistoric Art to Medieval Art-Honors	3.00
ART 113	Survey of Asian Art	3.00

**Students must complete at least nine (9) additional units from the following list:**

ART 125	Drawing II	3.00
	OR	
ART 132	Life Drawing I	3.00
ART 126	Painting I	3.00
ART 175	Sculpture	3.00
ART 200	Printmaking	3.00

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

### Art - Associate of Arts Degree

Provides training in art fundamentals to prepare students for transfer or to pursue a career in the arts. The core program provides an introduction to various aspects of studio art and art history, from traditional to the contemporary. Students can create their own emphasis in graphic design, 3D design, sculpture, printmaking, digital video production or studies in a contemporary media such as installation art or/and performance art.

#### Major/Program Requirements

##### Required Courses:

<b>ART 100</b>	<b>Art History I: Prehistoric Art to Medieval Art</b>	<b>3.00</b>
<b>ART 102</b>	<b>Art History II: Renaissance Art to Contemporary Art</b>	<b>3.00</b>
<b>ART 120</b>	<b>Foundations of Two-Dimensional Design</b>	<b>3.00</b>
ART 121	Foundations of Three-Dimensional Design	3.00
ART 124	Drawing I	3.00
ART 126	Painting I	3.00
ART 132	Life Drawing I	3.00

**Students must complete at least six units from the following courses:**

ART 105	History of Modern Art	3.00
ART 119	Digital Video Production	3.00
ART 125	Drawing II	3.00
ART 175	Sculpture	3.00
ART 200	Printmaking	3.00
ART 204	Contemporary Topics in American Art	1.00
ART 226	Painting II	3.00
ART 232	Life Drawing II	3.00
ART 247A	Special Projects in Art	1.00-3.00
ART 247B	Special Projects in Art	1.00-3.00
ART 247C	Special Projects in Art	1.00-3.00
ART 247D	Special Projects in Art	1.00-3.00
ART 275	Contemporary Sculpture Techniques	3.00
THART 176	Fundamentals of Stagecraft I	3.00
THART 179	Fundamentals of Stagecraft II	3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

##### A student receiving a degree in this field will be able to:

- Develop a habit of critical inquiry and research relevant to creative processes

- Foster intellectual curiosity and experimentation in different art medias
- Express an understanding of contemporary issues in arts through visual, written and spoken communication
- Demonstrate a basic knowledge in contemporary art and its historical relevance
- Recognize and interpret the art from different periods from prehistoric to the contemporary time with the focus on the Western Culture
- Demonstrate critical thinking in the analysis of both familiar and unfamiliar works of art
- Demonstrate knowledge in basic design vocabulary related to both 2D and 3D design
- Integrate the knowledge of a pictorial composition and express it in a variety of art projects from figuration to abstraction
- Demonstrate knowledge in a perspective drawing
- Display drawing skills in a variety of media and techniques
- Exhibit the understanding of the human figure and proportions in a relationship to a space and light source
- Demonstrate an understanding of color theory and develop adequate skills in color mixing
- Incorporate the variety of painting styles as well as painting media/techniques
- Practice safe working procedures

### Computer Assisted Graphic Design Certificate (Art)

The objective of this certificate is to provide students the knowledge and skills necessary for employment in entry-level positions in the field of Computer Assisted Graphic Design. The certificate indicates student knowledge of the software, theory, and abilities required to pursue a career in Computer Assisted Graphic Design.

**Completion of the following 18.00 units qualifies the student for the Computer Assisted Graphic Design Certificate.**

### Major/Program Requirements

#### Required Courses:

<b>ART 120</b>	<b>Foundations of Two-Dimensional Design</b>	<b>3.00</b>
ART 124	Drawing I	3.00
CIS 163	Introduction to PhotoShop	3.00
CIS 165	Introduction to 3D Modeling and Animation	3.00
CIS 180	Computer Graphics with Adobe Illustrator	1.00-3.00
CIS 182	Desktop Publishing with Adobe Indesign	1.00-3.00

#### Recommended Courses:

CIS 166	Advanced 3D Modeling and Animation	3.00
CIS 184	Photoshop and Digital Photography	3.00

**A student receiving a certificate in this field will be able to:**

- Define and use the tools and skills needed to create drawings and graphics for a wide range of applications
- Work collaboratively on a team project

- Demonstrate the ability to define and use the terminology of drawing and graphic design
- Define and use the terminology of drawing and graphic design
- An understanding of the legal, ethical, and moral issues of media communication
- Work within the media copyright and legal regulatory environment
- Select and evaluate appropriate visual communication strategies and styles for a specific purpose

## Biology (BIOL)

**Department:** Physical & Biological Sciences

**Faculty Chair:** Sam Truong, M.D.

**Faculty:** Ruth Greyraven, M.S., Lisa Shimeld, M.S., Sam Truong, M.D.

### Biology - Associate of Science Degree

#### Major/Program Requirements

#### Required Courses:

BIOL 130	Cell and Molecular Biology OR	4.00
BIOL 130H	Cell and Molecular Biology-Honors	4.00
BIOL 131	Populations and Organisms	4.00
CHEM 150	General Chemistry I OR	5.00
CHEM 150H	General Chemistry I-Honors	5.00
CHEM 151	General Chemistry II OR	5.00
CHEM 151H	General Chemistry II-Honors	5.00
PHYSIC 110	General Physics I	4.00
PHYSIC 111	General Physics II	4.00

PHYSIC 111: Students may substitute PHYSIC 250-251-252 in lieu of PHYSIC 110-111. See Counselor for details.

**Students wishing to earn an A.S. with an emphasis in either Anatomy and Physiology or Microbiology must also complete:**

#### Emphasis in Anatomy and Physiology:

ANAT 150	Human Anatomy and Physiology I	4.00
ANAT 151	Human Anatomy and Physiology II	4.00

#### Emphasis in Microbiology:

MICRO 150	Medical Microbiology OR	5.00
MICRO 102	Introductory Microbiology	4.00
MICRO 247A	Special Problems in Microbiology OR	2.00
MICRO 248A	Special Problems in Microbiology	3.00

MICRO 102: Students who complete MICRO 102 must also take a special problems in microbiology course (MICRO 247A or MICRO 248A).

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

**A student receiving a degree in this field will be able to:**

- Communicate biological ideas and processes clearly and precisely, both orally and in writing
- Demonstrate the processes and skills associated with biological science research, including an integrated working knowledge of instrumentation and biological processes
- Demonstrate critical thinking skills through analysis of experimental data then drawing conclusions, and making predictions based on evidence

## Business Administration (BUSAD)

**Department:** Business, Economics & Information Technology

**Faculty Chair:** Margaret Yau, M.S.

### Associate in Science in Business Administration for Transfer (AS-T) Degree

The Associate in Science-Transfer (AS-T) degree in Business Administration at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in accounting, finance, international business, management, marketing or other business-related field of study.

#### Major/Program Requirements

**Required Courses:**

ACCT 208	Introduction to Financial Accounting	4.00
ACCT 209	Introduction to Managerial Accounting	4.00
BUSAD 210	Business Law	3.00
<b>ECON 200</b>	<b>Principles of Macroeconomics</b>	<b>3.00</b>
	OR	
ECON 200H	Principles of Macroeconomics-Honors	3.00
<b>ECON 201</b>	<b>Principles of Microeconomics</b>	<b>3.00</b>
	OR	
ECON 201H	Principles of Microeconomics-Honors	3.00
MATH 110	Introduction to Probability and Statistics	4.00
	OR	
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00

**Students must complete at least six (6) units from the following courses:**

<b>BUSAD 100</b>	<b>Introduction to Business</b>	<b>3.00</b>
<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b>	<b>3.00</b>
	OR	
<b>BUSAD 230</b>	<b>Using Computers for Business</b>	<b>3.00</b>

BUSAD 145	Business Communication	4.00
	OR	
COMMST 145	Business Communication	4.00

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is available at [www.assist.org](http://www.assist.org).*

## Business Administration - Associate of Science Degree

### Major/Program Requirements

**Required Courses:**

ACCT 208	Introduction to Financial Accounting	4.00
BUSAD 100	Introduction to Business	3.00
BUSAD 145	Business Communication	4.00
	OR	
COMMST 145	Business Communication	4.00
BUSAD 200	Business Management	3.00
BUSAD 210	Business Law	3.00
<b>BUSAD 230</b>	<b>Using Computers for Business</b>	<b>3.00</b>
	OR	
<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b>	<b>3.00</b>
<b>ECON 100</b>	<b>Introduction to Economics</b>	<b>3.00</b>
MARKET 100	Marketing Principles	3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

**A student receiving a degree/certificate in this field will be able to:**

- Present and discuss contemporary business principles, practices and organizations
- Discuss economic, political and ethical issues and their impact upon business policies and practices
- Explain and apply basic accounting principles
- Effectively explain and apply marketing principles pertaining to promotion, advertising, public relations, and personal selling
- Describe and apply the economic concepts of supply and demand, competition, and product differentiation and their role in the free market
- Explain and apply the basic concepts of management and leadership
- Effectively explain the various concepts of human resource management including employee training, motivations, compensations, and labor relations



## Business Management Certificate of Achievement

The objective of this certificate program is to provide entry-level, marketable employment skills to equip the student with a basic understanding of the terminology and basic concepts/procedures used in business, and to acquaint the student with various subfunctions within the overall career field of business. Completion of the certificate program will prepare the student for entry-level employment in a variety of related occupations including supervision, small business ownership, and management trainee.

Admission: Open to all students. Registration is limited to class size restrictions.

### Major/Program Requirements

#### Required Courses:

ACCT 208	Introduction to Financial Accounting	4.00
ACCT 209	Introduction to Managerial Accounting	4.00
<b>BUSAD 100</b>	<b>Introduction to Business</b>	<b>3.00</b>
BUSAD 145	Business Communication OR	4.00
COMMST 145	Business Communication	4.00
BUSAD 155	Human Relations in the Workplace OR	3.00
COMMST 155	Human Relations in the Workplace	3.00
COMMST 111	Interpersonal Communication OR	3.00
COMMST 111H	Interpersonal Communication-Honors OR	3.00
COMMST 140	Small Group Communication	3.00
BUSAD 200	Business Management	3.00
BUSAD 210	Business Law	3.00
<b>BUSAD 230</b>	<b>Using Computers for Business</b> OR	<b>3.00</b>
<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b>	<b>3.00</b>
MARKET 100	Marketing Principles	3.00
MATH 110	Introduction to Probability and Statistics OR	4.00
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00
<b>ECON 100</b>	<b>Introduction to Economics</b> OR	<b>3.00</b>
<b>ECON 200</b>	<b>Principles of Macroeconomics</b> OR	<b>3.00</b>
ECON 200H	Principles of Macroeconomics-Honors	3.00
<b>ECON 201</b>	<b>Principles of Microeconomics</b> OR	<b>3.00</b>

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ECON 201H	Principles of Microeconomics-Honors	3.00
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## Office Assistant Certificate of Achievement

This certificate is designed to prepare students for entry-level positions as office assistant, receptionist, and general clerk.

### Major/Program Requirements

#### Required Courses:

BUSAD 053	Business Computations OR	3.00
MATH 952	Prealgebra	4.00
BUSAD 145	Business Communication OR	4.00
COMMST 145	Business Communication	4.00
CIS 091	Essential Technology Skills for College and Career Success	3.00
CIS 095	Employability Skills for Technical Careers	2.00
CIS 101	Introduction to Computer and Information Technology	3.00
CIS 105	Database Concepts and Design	3.00

## Retail Management Certificate of Achievement

The objective of this certificate program is to give students a foundation for a career in the retail management field. Some of the activities involved in retailing are selection and buying of merchandise, marketing, and product displays, selling, inventory control, customer relations and pricing. The student usually enters the retailing field as a clerk or cashier and advances in the following manner: Assistant Manager, Manager, and Upper Management.

Admission: Open to all students. Registration is limited to class size restrictions.

### Major/Program Requirements

#### Required Courses:

ACCT 208	Introduction to Financial Accounting	4.00
BUSAD 053	Business Computations	3.00
BUSAD 103	Human Resources Management	3.00
BUSAD 200	Business Management	3.00
BUSAD 145	Business Communication OR	4.00
COMMST 145	Business Communication	4.00
BUSAD 155	Human Relations in the Workplace OR	3.00
COMMST 155	Human Relations in the Workplace	3.00
<b>BUSAD 230</b>	<b>Using Computers for Business</b> OR	<b>3.00</b>
<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b>	<b>3.00</b>
MARKET 100	Marketing Principles	3.00

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MARKET 106	Retail Management	3.00
COMMST 111	Interpersonal Communication OR	3.00
COMMST 111H	Interpersonal Communication-Honors	3.00

## Chemistry (CHEM)

**Department:** Physical & Biological Sciences

**Faculty Chair:** Sam Truong, M.D.

**Faculty:** Kelly Boebinger, M.S., Shohreh Rahbarnia, M.S., Kim Salt, Ph.D.

### Associate in Science in Chemistry for Transfer (AS-T) Degree

The Associate in Science-Transfer (AS-T) degree in Chemistry at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Chemistry or a related field of study.

#### Major/Program Requirements

##### Required Courses:

CHEM 150	General Chemistry I OR	5.00
CHEM 150H	General Chemistry I-Honors	5.00
CHEM 151	General Chemistry II OR	5.00
CHEM 151H	General Chemistry II-Honors	5.00
CHEM 212	Organic Chemistry I	4.00
CHEM 213	Organic Chemistry II	4.00
PHYSIC 250	College Physics I	4.00
PHYSIC 251	College Physics II	4.00
MATH 250	Single Variable Calculus I	4.00
MATH 251	Single Variable Calculus II	4.00

CSUGE for STEM and IGETC for STEM are the only approved general education patterns for this degree.

Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (CSUGE Breadth for STEM or IGETC for STEM). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

### Chemistry - Associate of Science Degree

The chemistry program prepares students with an understanding of the fundamental principles of chemistry in a variety of applications. Students learn how chemical knowledge is derived, theorized, and applied in solving problems in everyday life.

#### Major/Program Requirements

##### Required Courses:

CHEM 150	General Chemistry I OR	5.00
CHEM 150H	General Chemistry I-Honors	5.00

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CHEM 151	General Chemistry II OR	5.00
CHEM 151H	General Chemistry II-Honors	5.00
CHEM 212	Organic Chemistry I	4.00
CHEM 213	Organic Chemistry II	4.00

##### Recommended Courses:

These courses are typically prerequisites for third year chemistry majors. Students are encouraged to complete the recommended courses to prevent postponement of continued coursework in this major.

MATH 250	Single Variable Calculus I	4.00
MATH 251	Single Variable Calculus II	4.00
PHYSIC 110	General Physics I	4.00
PHYSIC 111	General Physics II	4.00

PHYSIC 110 and PHYSIC 111: Students may substitute PHYSIC 250, 251, and 252 in lieu of PHYSIC 110 and PHYSIC 111. See a counselor for details.

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

##### A student receiving a degree in this field will be able to:

- Identify the basic areas of Chemistry that are appropriate to each Chemistry course. This content will allow students to continue in successive Chemistry courses, as well as relate the knowledge for matriculation and life-long learning.
- Comprehend and use laboratory skills in synthetic, quantitative and instrumental methods as scientific approaches to gathering and verifying knowledge.
- Demonstrate critical thinking in Chemistry including interpretation, evaluation, explanation and critical inquiry; how to ask appropriate questions, gather relevant information efficiently and creatively, sort through this information, reason logically from this information and come to reliable and trustworthy conclusions.
- Collect, analyze and articulate results clearly and effectively in speech and in writing in an acceptable style of presentation.

## Child Development (CD)

**Department:** Human Development

**Faculty Chair:** Meridyth McLaren, M.S.

**Faculty:** Meridyth McLaren, M.S.

### Associate in Science in Early Childhood Education for Transfer (AS-T) Degree

The Associate in Science-Transfer (AS-T) degree in Early Childhood Education at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Early Childhood Education or a related field of study.

## Major/Program Requirements

### Required Courses:

<b>CD 105</b>	<b>Child Growth and Development</b>	<b>3.00</b>
CD 126	Child, Family and Community	3.00
CD 112	Programs and Practices in Child Development	3.00
CD 132	Creative Experiences for Children Across the Curriculum	3.00
CD 212	Observation and Methods in Early Child Development	3.00
CD 205	Child Development Practicum	4.00
CD 115	Health, Welfare and Nutrition for Children	3.00
CD 182	Teaching in a Diverse Society	3.00

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

## Associate in Arts in Elementary Teacher Education for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Elementary Teacher Education at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in liberal studies or a related field of study.

## Major/Program Requirements

### Required Courses:

<b>CD 105</b>	<b>Child Growth and Development</b>	<b>3.00</b>
CD 295	Elementary Laboratory	3.00
EDU 290	Introduction to Education	3.00

### Required General Education Courses:

<b>ENGL 101</b>	<b>Freshman Composition</b>	<b>4.00</b>
	OR	
ENGL 101H	Freshman Composition-Honors	4.00

<b>COMMST 100</b>	<b>Elements of Public Speaking</b>	<b>3.00</b>
	OR	
COMMST 100H	Elements of Public Speaking- Honors	3.00

BIOL 100	General Biology	4.00
<b>CHEM 101</b>	<b>Introduction to Chemistry</b>	<b>4.00</b>
PHYSIC 100	Introduction to Physics	4.00
ENGL 152	Intermediate Composition and Literature	4.00

<b>HIST 100</b>	<b>History of the United States to 1877</b>	<b>3.00</b>
	OR	
HIST 100H	History of the United States to 1877- Honors	3.00

HIST 170	World Civilizations (3500 BCE-1500 CE)	3.00
	OR	
HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00

GEOG 120	World Regional Geography	3.00
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POLIT 100	American Politics	3.00
	OR	
POLIT 100H	American Politics-Honors	3.00

**Students must complete at least three (3) units from the following courses:**

<b>COMMST 125</b>	<b>Critical Thinking through Argumentation and Debate</b>	<b>3.00</b>
	OR	
COMMST 125H	Critical Thinking through Argumentation and Debate-Honors	3.00

<b>ENGL 102</b>	<b>Intermediate Composition and Critical Thinking</b>	<b>4.00</b>
	OR	
ENGL 102H	Intermediate Composition and Critical Thinking-Honors	4.00

**Students must complete at least three (3) additional units from the following courses:**

<b>MUSIC 120</b>	<b>Appreciation of Musical Literature</b>	<b>3.00</b>
	OR	
MUSIC 120H	Appreciation of Musical Literature- Honors	3.00

THART 100	Introduction to Theatre	3.00
	OR	
THART 100H	Introduction to Theatre-Honors	3.00

**Students must also complete the following seven (7) units:**

GEOL 140	Earth Science	3.00
GEOL 141	Earth Science Laboratory	1.00
MATH 106	Mathematical Concepts for Elementary School Teachers - Number Systems	3.00

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

## Child Development - Associate of Arts Degree

The Associate of Arts degree in Child Development is designed to prepare professionals to teach in an early learning environment such as preschool. This degree can also assist in preparation to teach in primary and intermediate grades.

## Major/Program Requirements

### Required Courses:

<b>CD 105</b>	<b>Child Growth and Development</b>	<b>3.00</b>
CD 112	Programs and Practices in Child Development	3.00
CD 115	Health, Welfare and Nutrition for Children	3.00
CD 126	Child, Family and Community	3.00
CD 132	Creative Experiences for Children Across the Curriculum	3.00
CD 182	Teaching in a Diverse Society	3.00
CD 205	Child Development Practicum	4.00
CD 212	Observation and Methods in Early Child	3.00

Development

**Recommended Courses:**

CD 100	Introduction to Child Development	3.00
CD 101	Family Interactions	3.00
CD 130	Music and Movement for Children	3.00
CD 131	Developmental Art for Children	3.00
CD 133	Creative Science and Math Activities for Children	3.00
CD 134	Language and Listening, Literacy and Literature for Children	3.00
CD 136	Creative Art Activities for Children	3.00
CD 137	Play and Materials in Early Learning	3.00
<b>CD 185</b>	<b>Infant/Toddler Growth and Development</b>	<b>3.00</b>
CD 186	Infant/Toddler Activities	3.00
CD 211	Observation and Methods in School-Age Development	3.00
CD 244	Children with Special Needs	3.00
CD 250	Child Guidance and Early Learning	3.00
CD 270	Mentor Teacher/Adult Supervision	2.00
CD 271	Administration: Management and Organization of Child Development Program	3.00
CD 272	Administration: Human Relations in Child Development Programs	3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

**A student receiving a degree in this field will be able to:**

- Integrate understanding of the needs, the characteristics and multiple influences on development of children birth to age eight as related to high-quality care and education of young children
- Design, implement and evaluate environments and activities that support positive, development all play and learning outcomes for all young children
- Apply effective guidance and interaction strategies that support all children's' social learning, identity and self-confidence
- Develop strategies that promote partnerships between programs, teachers, families and their communities
- Demonstrate ethical standards and professional behaviors that deepen understanding, knowledge and commitment to the EC/CD profession

**Associate Teacher Certificate**

The objective of this certificate is to provide students with the knowledge and skills necessary for obtaining entry-level employment in a preschool or child care setting.

**Completion of the following 16.00 units qualifies the student for the Associate Teacher Certificate. Note: Students should be advised that certificate requirements differ from the State Child Development Permit Matrix Qualifications. See the Child Development and Education department for State licensing requirements and more information.**

**Major/Program Requirements**

**Required Courses:**

CD 105	Child Growth and Development	3.00
CD 112	Programs and Practices in Child Development	3.00
CD 126	Child, Family and Community	3.00
CD 132	Creative Experiences for Children Across the Curriculum	3.00
CD 205	Child Development Practicum	4.00

**A student receiving a degree/certificate in this field will be able to:**

- Meet Title 22 Requirements for employment
- Qualify for Title 5 associate teacher level
- Design, implement and evaluate environments that support positive developmental play and learning
- Design, implement and evaluate activities that support positive developmental plan and learning outcomes for young children

**Master Teacher Certificate**

The objective of this certificate is to provide students with the knowledge and skills necessary to teach with a specialization in a preschool or other early learning program.

**Completion of the following 36.00 units qualifies the student for the Master Teacher Certificate.**

**Note: Students should be advised that certificate requirements differ from State Child Development Permit Qualifications. See the Child Development and Education department for State licensing requirements and more information.**

**Major/Program Requirements**

**Required Courses:**

<b>CD 105</b>	<b>Child Growth and Development</b>	<b>3.00</b>
CD 112	Programs and Practices in Child Development	3.00
CD 126	Child, Family and Community	3.00
CD 132	Creative Experiences for Children Across the Curriculum	3.00
CD 205	Child Development Practicum	4.00
CD 270	Mentor Teacher/Adult Supervision	2.00

**Students must complete at least six (6) units from one of the following areas of specialization:**

**Music Specialization**

CD 130	Music and Movement for Children	3.00
MUSIC 100	Fundamental Skills in Music	3.00

**Art Specialization**

CD 131	Developmental Art for Children	3.00
CD 136	Creative Art Activities for Children	3.00

**Language and Literacy Specialization**

CD 134	Language and Listening, Literacy and Literature for Children	3.00
ENGL 155	Children's Literature	3.00

**Infant/Toddler Specialization**

<b>CD 185</b>	<b>Infant/Toddler Growth and Development</b>	<b>3.00</b>
CD 186	Infant/Toddler Activities	3.00

**Special Needs Specialization**

CD 244	Children with Special Needs	3.00
ASL 101	American Sign Language I	4.00

**Students must complete at least twelve (12) additional units not included in their selected specialization from the following courses:**

CD 100	Introduction to Child Development	3.00
CD 101	Family Interactions	3.00
CD 115	Health, Welfare and Nutrition for Children	3.00
CD 130	Music and Movement for Children	3.00
CD 131	Developmental Art for Children	3.00
CD 133	Creative Science and Math Activities for Children	3.00
CD 134	Language and Listening, Literacy and Literature for Children	3.00
CD 136	Creative Art Activities for Children	3.00
CD 137	Play and Materials in Early Learning	3.00
CD 182	Teaching in a Diverse Society	3.00
<b>CD 185</b>	<b>Infant/Toddler Growth and Development</b>	<b>3.00</b>
CD 186	Infant/Toddler Activities	3.00
CD 212	Observation and Methods in Early Child Development	3.00
CD 244	Children with Special Needs	3.00

**A student receiving a certificate in this field will be able to:**

- Exceed the Title 22 requirements for Teacher level employment in private sector programs
- Meet Title 5 requirements for Teacher level employment in funded programs when adding 16 specified units of General Education
- Design, implement and evaluate environments that support positive developmental play and learning
- Design, implement and evaluate activities that support positive developmental plan and learning outcomes for young children

**Site Supervisor Certificate**

The objective of this certificate is to provide students with the knowledge and skills necessary to work as a site supervisor in a preschool or other early learning environment.

**Completion of the following 36.00 units qualifies the student for the Site Supervisor Certificate.**

**Note: Students should be advised that certificate requirements differ from State Child Development Permit Matrix Qualifications. See the Child Development and Education department for State licensing requirements and more information.**

**Major/Program Requirements**

**Required Courses:**

<b>CD 105</b>	<b>Child Growth and Development</b>	<b>3.00</b>
CD 112	Programs and Practices in Child Development	3.00
CD 126	Child, Family and Community	3.00
CD 132	Creative Experiences for Children Across the Curriculum	3.00
CD 205	Child Development Practicum	4.00
CD 270	Mentor Teacher/Adult Supervision	2.00

CD 271	Administration: Management and Organization of Child Development Program	3.00
CD 272	Administration: Human Relations in Child Development Programs	3.00

**Students must complete at least twelve (12) units from the following courses:**

CD 100	Introduction to Child Development	3.00
CD 101	Family Interactions	3.00
CD 115	Health, Welfare and Nutrition for Children	3.00
CD 130	Music and Movement for Children	3.00
CD 131	Developmental Art for Children	3.00
CD 133	Creative Science and Math Activities for Children	3.00
CD 134	Language and Listening, Literacy and Literature for Children	3.00
CD 136	Creative Art Activities for Children	3.00
CD 137	Play and Materials in Early Learning	3.00
CD 182	Teaching in a Diverse Society	3.00
<b>CD 185</b>	<b>Infant/Toddler Growth and Development</b>	<b>3.00</b>
CD 186	Infant/Toddler Activities	3.00
CD 212	Observation and Methods in Early Child Development	3.00
CD 244	Children with Special Needs	3.00

**A student receiving a certificate in this field will be able to:**

- Qualify to work as a site supervisor in private preschool programs
- Qualify to work as a director in private programs
- Qualify to work in a funded programs as a site supervisor when adding General Education
- Design, implement and evaluate environments that support positive, developmental play and learning
- Design, implement and evaluate activities that support positive developmental plan and learning outcomes for young children
- Develop strategies that promote partnerships between programs, families and community
- Apply ethical standards and professional behaviors that deepen understanding, knowledge and commitment to the Child Development profession

**Teacher Certificate**

The objective of this certificate is to provide students with the knowledge and skills necessary to teach children in a preschool or child care setting.

**Completion of the following 28.00 units qualifies the student for the Teacher Certificate. Note: Students should be advised that certificate requirements differ from State Child Development Permit Qualifications. See the Child Development and Education department for State licensing requirements and more information.**

**Major/Program Requirements**

**Required Courses:**

<b>CD 105</b>	<b>Child Growth and Development</b>	<b>3.00</b>
CD 112	Programs and Practices in Child Development	3.00

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CD 126	Child, Family and Community	3.00
CD 132	Creative Experiences for Children Across the Curriculum	3.00
CD 205	Child Development Practicum	4.00

**Students must complete at least twelve (12) units from the following courses:**

CD 100	Introduction to Child Development	3.00
CD 101	Family Interactions	3.00
CD 115	Health, Welfare and Nutrition for Children	3.00
CD 130	Music and Movement for Children	3.00
CD 131	Developmental Art for Children	3.00
CD 133	Creative Science and Math Activities for Children	3.00
CD 134	Language and Listening, Literacy and Literature for Children	3.00
CD 136	Creative Art Activities for Children	3.00
CD 137	Play and Materials in Early Learning	3.00
CD 182	Teaching in a Diverse Society	3.00
<b>CD 185</b>	<b>Infant/Toddler Growth and Development</b>	<b>3.00</b>
CD 186	Infant/Toddler Activities	3.00
CD 212	Observation and Methods in Early Child Development	3.00
CD 244	Children with Special Needs	3.00

**A student receiving a certificate in this field will be able to:**

- Exceed the Title 22 requirements for Teacher level employment in private sector programs
- Meet Title 5 requirements for teacher level employment in funded programs when adding 16 specified units of General Education
- Design, implement and evaluate environments that support positive developmental play and learning
- Design, implement and evaluate activities that support positive developmental plan and learning outcomes for young children

## Communication Studies (COMMST)

**Department:** Communication & Language

**Faculty Chair:** Breanna Andrews, M.A.

**Faculty:** James Urbanovich, M.A., M.P.T.

### Associate in Arts in Communication Studies for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Communication Studies at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in a communication-related field of study.

### Major/Program Requirements

**Required Courses:**

<b>COMMST 100</b>	<b>Elements of Public Speaking</b>	<b>3.00</b>
	<b>OR</b>	
COMMST 100H	Elements of Public Speaking- Honors	3.00

**Students must complete at least six (6) units from the following courses:**

COMMST 111	Interpersonal Communication	3.00
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	OR	
COMMST 111H	Interpersonal Communication-Honors	3.00

**COMMST 125** **Critical Thinking through Argumentation and Debate** **3.00**

	OR	
COMMST 125H	Critical Thinking through Argumentation and Debate-Honors	3.00

COMMST 140 Small Group Communication 3.00

**Students must complete at least six (6) additional units from the following courses:**

COMMST 111 Interpersonal Communication 3.00

OR

COMMST 111H Interpersonal Communication-Honors 3.00

COMMST 120 Oral Interpretation of Literature 3.00

OR

COMMST 120H Oral Interpretation of literature - Honors 3.00

**COMMST 125** **Critical Thinking through Argumentation and Debate** **3.00**

	OR	
COMMST 125H	Critical Thinking through Argumentation and Debate-Honors	3.00

COMMST 135 Mass Communication in Society 3.00

OR

JOUR 135 Mass Communication in Society 3.00

COMMST 140 Small Group Communication 3.00

COMMST 174 Communication in a Diverse World 3.00

**Students must complete at least three (3) additional units from the following courses:**

COMMST 120 Oral Interpretation of Literature 3.00

OR

COMMST 120H Oral Interpretation of literature - Honors 3.00

**COMMST 135** **Mass Communication in Society** **3.00**

OR

JOUR 135 Mass Communication in Society 3.00

**COMMST 174** **Communication in a Diverse World** **3.00**

JOUR 120 Fundamentals of News Writing 3.00

OR

ENGL 120 Fundamentals of News Writing 3.00

**ANTHRO 102** **Cultural Anthropology** **3.00**

OR

ANTHRO 102H Cultural Anthropology-Honors 3.00

**PSYCH 100** **General Psychology** **3.00**

OR

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PSYCH 100H	General Psychology- Honors	3.00
<b>SOC 100</b>	<b>Introduction to Sociology</b>	<b>3.00</b>
	OR	
SOC 100H	Introduction to Sociology-Honors	3.00

Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Communication - Associate of Arts Degree

### Major/Program Requirements

#### Required Courses:

<b>COMMST 100</b>	<b>Elements of Public Speaking</b>	<b>3.00</b>
	OR	
COMMST 100H	Elements of Public Speaking- Honors	3.00
COMMST 111	Interpersonal Communication	3.00
	OR	
COMMST 111H	Interpersonal Communication-Honors	3.00
<b>COMMST 125</b>	<b>Critical Thinking through Argumentation and Debate</b>	<b>3.00</b>
	OR	
COMMST 125H	Critical Thinking through Argumentation and Debate-Honors	3.00
	OR	
COMMST 140	Small Group Communication	3.00
<b>Students must complete at least nine (9) additional units from the following courses:</b>		
COMMST 101	Advanced Public Speaking	3.00
COMMST 110	Voice and Diction	3.00
	OR	
THART 110	Voice and Diction	3.00
COMMST 120	Oral Interpretation of Literature	3.00
	OR	
COMMST 120H	Oral Interpretation of literature - Honors	3.00
<b>COMMST 125</b>	<b>Critical Thinking through Argumentation and Debate</b>	<b>3.00</b>
	OR	
COMMST 125H	Critical Thinking through Argumentation and Debate-Honors	3.00
<b>COMMST 135</b>	<b>Mass Communication in Society</b>	<b>3.00</b>
	OR	
JOUR 135	Mass Communication in Society	3.00
COMMST 145	Business Communication	4.00
	OR	
BUSAD 145	Business Communication	4.00

(Counseling 4-15) 6m

COMMST 155	Human Relations in the Workplace	3.00
	OR	
BUSAD 155	Human Relations in the Workplace	3.00
COMMST 140	Small Group Communication	3.00
<b>COMMST 174</b>	<b>Communication in a Diverse World</b>	<b>3.00</b>
COMMST 246ABCD	Special Studies in Communication	1.00
COMMST 247ABC	Special Studies in Communication	2.00
COMMST 248AB	Special Studies in Communication	3.00
JOUR 120	Fundamentals of News Writing	3.00
	OR	
ENGL 120	Fundamentals of News Writing	3.00
ENGL 170	The Film Experience	3.00
MARKET 110	Advertising	3.00
<b>SOC 130</b>	<b>Marriage, Family and Intimate Relationships</b>	<b>3.00</b>

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Computer Information Systems (CIS)

**Department:** Business, Economics & Information Technology

**Faculty Chair:** Margaret Yau, M.S.

**Faculty:** Denise Allen M.A., Margaret Yau, M.S.

### Computer Information Systems - Associate of Science Degree

#### Major/Program Requirements

##### Required Courses:

CIS 095	Employability Skills for Technical Careers	2.00
<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b>	<b>3.00</b>
CIS 130	Hardware and Information Technology	3.00
<b>CIS 140</b>	<b>Introduction to Networks (Cisco CCNA 1)</b>	<b>4.00</b>

##### One of the following courses:

CIS 104	Object Oriented Programming with Visual Basic	3.00
CIS 111	Web Page Programming and Design	3.00
CIS 113	Java Programming	3.00
CIS 114	C++ Programming I	3.00
CSCI 110	Introduction to Computer Science I	3.00

**Students must select ONE area of emphasis from the following three options:**

##### Emphasis in Programming:

**Students must complete at least twelve (12) additional units from the following courses:**

CIS 104	Object Oriented Programming with Visual	3.00
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## CHC Degrees, Major Preparation | 32

	Basic	
CIS 105	Database Concepts and Design	3.00
CIS 113	Java Programming	3.00
CIS 114	C++ Programming I	3.00
	OR	
CSCI 110	Introduction to Computer Science I	3.00
CIS 116	C++ Programming II	3.00
	OR	
CSCI 120	Introduction to Computer Science II	3.00
CIS 117	Scripting	3.00
CIS 121	Android Application Development	3.00
CIS 125	Introduction to C#.net Programming	3.00
CIS 190D	Software Development Internship	1.00-3.00
MATH 102	College Algebra	4.00
	OR	

### Emphasis in Web Design:

Students must complete at least twelve (12) additional units from the following courses:

CIS 111	Web Page Programming and Design	3.00
CIS 117	Scripting	3.00
CIS 161	Website Design and Programming Using Dreamweaver	3.00
<b>CIS 162</b>	<b>Introduction to Flash</b>	<b>3.00</b>
CIS 163	Introduction to PhotoShop	3.00
	OR	
CIS 180	Computer Graphics with Adobe Illustrator	1.00-3.00
CIS 190A	Web Master Internship	3.00
<b>CIS 211</b>	<b>Cascading Style Sheet (CSS) Web Design</b>	<b>3.00</b>
	OR	

### Emphasis in Computer Assisted Graphic Design:

Students must complete at least twelve (12) additional units from the following courses:

<b>CIS 162</b>	<b>Introduction to Flash</b>	<b>3.00</b>
CIS 163	Introduction to PhotoShop	3.00
CIS 165	Introduction to 3D Modeling and Animation	3.00
CIS 166	Advanced 3D Modeling and Animation	3.00
CIS 180	Computer Graphics with Adobe Illustrator	1.00-3.00
CIS 182	Desktop Publishing with Adobe Indesign	1.00-3.00
CIS 184	Photoshop and Digital Photography	3.00
CIS 190E	Digital Media Design Internship	1.00-3.00
ART 120	Foundations of Two-Dimensional Design	3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the

general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

### A student receiving a degree in this field will be able to:

- Apply analytical and logical thinking to gathering and analyzing information, designing and testing solutions to problems, and formulating plans
- Discuss the impact of information technology on society and the workplace
- Work collaboratively in a team setting
- Select and evaluate appropriate written communication strategies and styles for a specific purpose
- Demonstrate knowledge of individual parts that make up a stand-alone PC computer system, and the relationships between components
- Create and maintain Web pages
- Demonstrate an understanding of the overall design and components of a LAN and WAN system

## Cisco Certified Network Associate Certificate

The objective of this certificate is to provide students the knowledge and skills necessary to prepare for the Cisco Certified Network Associate (CCNA) Certification Examination. Satisfactory passing of the exam will lead to employment in entry-level positions in the small office and/or home office (SOHO) market. The CCNA Certificate indicates the ability to work in small businesses or organizations using networks that have fewer than 100 nodes. The certificate holder is able to install and configure Cisco switches and routers in multi-protocol interworking using LAN and WAN interfaces, can provide Level 1 troubleshooting service, can improve network performance and security, and can perform entry-level task in the planning, design, installation, operations, and troubleshooting of Ethernet and TCP/IP networks.

Completion of the following 16.00 units qualifies the student for the Cisco Certified Network Associate Certificate.

### Major/Program Requirements

#### Required Courses:

<b>CIS 140</b>	<b>Introduction to Networks (Cisco CCNA 1)</b>	<b>4.00</b>
<b>CIS 141</b>	<b>Basic Routing and Switching (Cisco CCNA 2)</b>	<b>4.00</b>
<b>CIS 142</b>	<b>Advanced Routing and Switching (CISCO CCNA 3)</b>	<b>4.00</b>
<b>CIS 143</b>	<b>WAN Technologies and Network Services (CISCO CCNA 4)</b>	<b>4.00</b>

### A student receiving a degree/certificate in this field will be able to:

- Work collaboratively on a team project
- Effectively listen and ask critical questions to identify customer requests, issues and concerns
- Apply analytical and logical thinking to gathering and analyzing information, designing and testing solutions to problems, and formulating plans
- Install, configure, operate and troubleshoot simple- switched Local Area, simple-routed Wide Area Networks



- Install, configure a router, manage router IOS software, configure routing protocols, and create access lists controlling router access
- Complete a comprehensive case study incorporating single-area OSPF, RIPv2, static routes, VLANs and 802.q trunking, Frame Relay, VLSM, DHCP, NAT and access control lists on the appropriate routers and interfaces

### Computer Assisted Graphic Design Certificate (CIS)

The objective of this certificate is to provide students the knowledge and skills necessary for employment in entry-level positions in the field of Computer Assisted Graphic Design. The certificate indicates student knowledge of the software, theory, and abilities required to pursue a career in Computer Assisted Graphic Design.

**Completion of the following 18.00 units qualifies the student for the Computer Assisted Graphic Design Certificate.**

#### Major/Program Requirements

##### Required Courses:

<b>ART 120</b>	<b>Foundations of Two-Dimensional Design</b>	<b>3.00</b>
ART 124	Drawing I	3.00
CIS 163	Introduction to PhotoShop	3.00
CIS 165	Introduction to 3D Modeling and Animation	3.00
CIS 180	Computer Graphics with Adobe Illustrator	1.00-3.00
CIS 182	Desktop Publishing with Adobe Indesign	1.00-3.00

##### Recommended Courses:

CIS 166	Advanced 3D Modeling and Animation	3.00
CIS 184	Photoshop and Digital Photography	3.00

**A student receiving a certificate in this field will be able to:**

- Define and use the tools and skills needed to create drawings and graphics for a wide range of applications
- Work collaboratively on a team project
- Define and use the terminology of drawing and graphic design
- Demonstrate an understanding of legal, ethical, and moral issues of media communication
- Work within the media copyright and legal regulatory environment
- Appropriately select and evaluate visual communication strategies and styles for a specific purpose

### Computer Information Systems Certificate

The objective of this certificate is to provide students the knowledge and skills necessary to prepare for employment in entry-level positions in the field of Computer Information Systems. The certificate indicates that the student has acquired knowledge of the different aspects of information technology including programming, hardware, networking, databases, and web design.

**Completion of the following 28.00 units qualifies the student for the Computer Information Systems Certificate.**

#### Major/Program Requirements

##### Required Courses:

<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b>	<b>3.00</b>
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	OR	
<b>BUSAD 230</b>	<b>Using Computers for Business</b>	<b>3.00</b>
CIS 104	Object Oriented Programming with Visual Basic	3.00
	OR	
<b>CIS 113</b>	<b>Java Programming</b>	<b>3.00</b>
	OR	
CIS 114	C++ Programming I	3.00
	OR	
CSCI 110	Introduction to Computer Science I	3.00
CIS 111	Web Page Programming and Design	3.00
CIS 130	Hardware and Information Technology	3.00
<b>CIS 140</b>	<b>Introduction to Networks (Cisco CCNA 1)</b>	<b>4.00</b>

**Students must complete at least twelve (12) additional units from the following courses:**

CIS 104	Object Oriented Programming with Visual Basic	3.00
CIS 113	Java Programming	3.00
CIS 114	C++ Programming I	3.00
	OR	
CSCI 110	Introduction to Computer Science I	3.00
CIS 116	C++ Programming II	3.00
	OR	
<b>CSCI 120</b>	<b>Introduction to Computer Science II</b>	<b>3.00</b>
<b>CIS 141</b>	<b>Basic Routing and Switching (Cisco CCNA 2)</b>	<b>4.00</b>
CIS 161	Website Design and Programming Using Dreamweaver	3.00
CIS 163	Introduction to PhotoShop	3.00
<b>CIS 211</b>	<b>Cascading Style Sheet (CSS) Web Design</b>	<b>3.00</b>

### Programming Certificate

The objective of this certificate is to provide students with the knowledge and skills necessary for employment in entry-level positions in the field of computer programming or to continue to pursue a four-year degree in Computer Information Systems or Computer Science. The Programming Certificate indicates the student has acquired knowledge of various programming languages including basic language structures, syntax, debugging, and application development.

**Completion of the following 18.00-20.00 units qualifies the student for the Programming Certificate.**

#### Major/Program Requirements

##### Required Courses:

CIS 095	Employability Skills for Technical Careers	2.00
CIS 114	C++ Programming I	3.00
	OR	
CSCI 110	Introduction to Computer Science I	3.00

CIS 116	C++ Programming II OR	3.00
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**CSCI 120 Introduction to Computer Science II 3.00**

**Students must complete at least ten (10) additional units from the following courses:**

CIS 104	Object Oriented Programming with Visual Basic	3.00
CIS 105	Database Concepts and Design	3.00
CIS 111	Web Page Programming and Design	3.00
CIS 113	Java Programming	3.00
CIS 117	Scripting	3.00
CIS 121	Android Application Development	3.00
CIS 125	Introduction to C#.net Programming	3.00
CIS 190D	Software Development Internship	1.00-3.00
MATH 102	College Algebra	4.00

**A student receiving a certificate in this field will be able to:**

- Demonstrate the ability to write, compile, debug and execute well engineered and maintainable computer programs using a variety of programming languages that effectively meet the application requirements
- Demonstrate the ability to develop and apply systematic debugging and testing processes
- Demonstrate the ability to work collaboratively in a team environment
- Demonstrate the ability to explain and apply the necessary processes, tools and skills used in application development
- Demonstrate the ability to communicate effectively in technical and business environments

### Web Design Certificate

The objective of this certificate is to provide students the knowledge and skill necessary for employment in entry-level positions in the field of Web Design. The certificate indicates that the student has acquired knowledge of Web page design and development with an emphasis on graphic and visual elements and the Web-specific Adobe Creative Suite applications.

**Completion of the following 15-18 units qualifies the student for the Web Design Certificate.**

### Major/Program Requirements

**Required Courses:**

CIS 111	Web Page Programming and Design	3.00
CIS 161	Website Design and Programming Using Dreamweaver	3.00

**CIS 162 Introduction to Flash 3.00**

CIS 163 Introduction to PhotoShop 3.00

**CIS 211 Cascading Style Sheet (CSS) Web Design 3.00**

**Recommended Courses:**

CIS 180	Computer Graphics with Adobe Illustrator	1.00-3.00
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**A student receiving a certificate in this field will be able to:**

- Demonstrate the ability to work collaboratively on a team project
- Effectively listen and ask critical questions to identify customer requests, issues and concerns
- Apply analytical and logical thinking to gathering and analyzing information, designing and testing solutions to problems, and formulating plans
- Design and create a web site to meet the needs of a client

## Computer Science (CSCI)

**Department:** Business, Economics & Information Technology

**Faculty Chair:** Margaret Yau, M.S.

**Faculty:** Denise Allen M.A., Margaret Yau, M.S.

### Associate in Science in Computer Science for Transfer (AS-T) Degree

The Associate in Science-Transfer (AS-T) degree in Computer Science at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in a Computer Science related field of study.

### Major/Program Requirements

**Required Courses:**

CSCI 110	Introduction to Computer Science I	3.00
<b>CSCI 120</b>	<b>Introduction to Computer Science II</b>	<b>3.00</b>
CSCI 200	Discrete Structures OR	4.00
MATH 200	Discrete Structures	4.00
<b>CSCI 240</b>	<b>Computer Organization and Assembly Language Programming</b>	<b>3.00</b>
MATH 250	Single Variable Calculus I	4.00
MATH 251	Single Variable Calculus II	4.00
PHYSIC 250	College Physics I	4.00
PHYSIC 251	College Physics II	4.00

*IGETC is the only approved general education pattern for this degree.*

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

### Computer Science-Associate of Science

#### Major/Program Requirements

**Required Courses:**

The Associate of Science degree in Computer Science at Crafton Hills College is designed to meet the needs of students transferring to a four-year university who intend to major in Computer Science or a related field of study

CSCI 110	Introduction to Computer Science I	3.00
<b>CSCI 120</b>	<b>Introduction to Computer Science II</b>	<b>3.00</b>
CSCI 200	Discrete Structures OR	4.00

MATH 200	Discrete Structures	4.00
CSCI 230	Introduction to Data Structures and Algorithms	3.00
<b>CSCI 240</b>	<b>Computer Organization and Assembly Language Programming</b>	<b>3.00</b>
MATH 250	Single Variable Calculus I	4.00

*Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

## Counseling (COUN)

**Department:** Counseling

**Faculty Chair:** Robert McAtee, M.A.

**Faculty:** Trinette Barrie, M.A., Debbie Bogh, M.A., Troy Dial, M.S., John Gist, M.S., Robert McAtee, M.A., Mariana Moreno, M.S., Evan Sternard, M.A., Soutsakhone Xayaphanthong, M.A.

## Emergency Medical Services (EMS)

**Department:** Public Safety & Services

**Faculty Chair:** Gary Reese, B.S.M.

**Faculty:** Kathy Crow, B.V.E., James Holbrook, Ed.D., Gary Reese, B.S.M., Daniel Word, B.V.E.

### Emergency Medical Services - Associate of Science Degree

**NOTE:** Prior to starting this degree the student must show proof of a clear criminal background check.

**Consult with a counselor to develop an appropriate course of study.**

**Candidates must successfully complete a minimum of 33.00 units of prescribed course work. A minimum grade of "C" must be maintained in all course work related to Emergency Medical Services. A "C" in these courses is considered to be 80% or higher.**

### Major/Program Requirements

#### Required Courses:

EMS 150	Patient Assessment for Paramedics	3.00
EMS 151	Introduction to EMS for Paramedics	2.00
EMS 152	Cardiology for the Paramedic	4.50
EMS 153	Pharmacology for the EMT-Paramedic	3.00
EMS 154	Emergency Medical Services Theory for the Paramedic	8.00
EMS 155	Skills Development for Paramedics	3.00
EMS 156	Clinical Externship for the Paramedic	2.00
EMS 157	Field Externship for the Paramedic	7.50

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

### Emergency Medical Technician - I / EMT – Basic Certificate

The objective of this certificate is to train students to perform life support in the pre-hospital setting. Successful completion of the certificate program identifies the student has met the educational requirements as an Emergency Medical Technician-Basic. This is a state certificate program.

**NOTE:** Prior to starting this program the student must show proof of a clear criminal background check.

**Admission:** Open to all students who meet the age and physical requirements. Registration is limited to class size restrictions.

### Major/Program Requirements

#### Required Courses:

EMS 020	Emergency Medical Technician	6.00
EMS 021	Preventing Disease Transmission for Emergency Medical Technician	.50
EMS 022	Basic Life Support for Emergency Medical Technician-EMT	.50
EMS 023	Hazardous Materials First Responder Awareness for Emergency Medical Technician-I/EMT-Basic	.50

**A student receiving a certificate in this field will be able to:**

- Evaluate, treat and transport the ill and injured
- Effectively use adjunctive airway breathing aids
- Administer and monitor medications
- Demonstrate competency in assessing and treating patients with medical or trauma emergencies at a basic level
- Participate in a culturally diverse environment

### Emergency Medical Technician – Paramedic Certificate

The objective of this certificate is to train students with the necessary cognitive, psychomotor, and affective behaviors to provide advanced life support in the pre-hospital setting and to provide the necessary coursework to be licensed in the state of California. Completion of the certificate will prepare students for entry-level employment as Emergency Medical Technician–Paramedic and other occupations requiring Paramedic-level license.

**NOTE:** Prior to starting this program the student must show proof of a clear criminal background check.

**Contact the Emergency Medical Services Office for application materials.**

**Candidates must successfully complete a minimum of 33.00 units of prescribed course work. A minimum grade of "C" must be maintained in all course work related to Emergency Medical**

**Services. A "C" in these courses is considered to be 80% or higher.**

### Entrance Requirements:

1. Current, CA EMT-Basic Certification
2. Must meet the age, physical and licensure requirements
3. Minimum of six months full-time experience or 1000 hours of part-time EMS experience
4. ANAT 101 or ANAT 150 and ANAT 151 or CSU transferable equivalent
5. High school diploma or GED
6. Current negative TB test within six months or chest x-ray within two years
7. Tetanus-diphtheria (T-D) booster within the last ten years
8. Completion of Hepatitis B immunization series or titer showing immunity
9. Completion of varicella (chickenpox) vaccination or titer showing immunity
10. MMR titer showing immunity or proof of MMR immunization
11. Physical examination within the last six months; must be performed by a physician or nurse practitioner and must include a statement that you "are free to participate in the Paramedic Program without restriction."

### Entrance Competencies:

1. Reading level of 12th grade or higher
2. Math proficiency level of 10th grade or higher
3. Written EMT-Basic competency of 80 percent or higher
4. Written anatomy and physiology competency of 80 percent or higher
5. Oral judgment of simulated field situations of 80 percent or higher
6. Eligible to be licensed/accredited by state and local EMS agency

**In order to be eligible for licensure as a paramedic in the state of California, students must complete the following 33.00 units, pass National Registry written and skills examinations, and meet all other licensure requirements established by the state.**

### Major/Program Requirements

#### Required Courses:

EMS 150	Patient Assessment for Paramedics	3.00
EMS 151	Introduction to EMS for Paramedics	2.00
EMS 152	Cardiology for the Paramedic	4.50
EMS 153	Pharmacology for the EMT-Paramedic	3.00
EMS 154	Emergency Medical Services Theory for the Paramedic	8.00
EMS 155	Skills Development for Paramedics	3.00
EMS 156	Clinical Externship for the Paramedic	2.00
EMS 157	Field Externship for the Paramedic	7.50

**A student receiving a degree/certificate in this field will be able to:**

- Draw inferences and conclusions that are logical and supported by evidence

- Recognize how environments influence opinion, reaction to stress and judgement
- Communicate effectively verbally and in writing
- Apply knowledge to analysis of specific problems
- Solve problems and makes decisions

### Mobile Intensive Care Nurse Certificate

The objective of this certificate is to prepare experienced emergency room nurses in San Bernardino and Riverside Counties to interact via two-way radio communication with paramedics to assist in directing the care of patients in the pre-hospital setting.

**Admission: Open to students possessing a current California Registered Nurse License who have completed the following entrance requirements**

**Contact the Emergency Medical Services Office for application materials.**

**Completion of the following 2.25 units and satisfactory completion of County requirements qualify the student for the Mobile Intensive Care Nurse Certificate.**

**Candidates must successfully complete a minimum of 2.25 units of prescribed course work. A minimum grade of "C" or better must be maintained in all required courses. A "C" in these courses is considered to be 80% or higher.**

### Entrance Requirements:

1. EMS 110, Advanced Cardiac Life Support – Provider (ACLS) or have a current ACLS card
2. One year experience as a registered nurse
3. Have 800 hours experience as a registered nurse in the Emergency Department
4. Proof of a cardiac dysrhythmia course
5. Current employment in a base station hospital in San Bernardino or Riverside County
6. Ability to complete a written screening examination with 80 percent accuracy

### Major/Program Requirements

#### Required Courses:

EMS 103	Mobile Intensive Care Nurse	2.25
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### Economics (ECON)

**Department:** Business, Economics & Information Technology

**Faculty Chair:** Margaret Yau, M.S.

**Faculty:** Farhad Mansourian, M.A.

### Levels and Order of Economics Classes

### Associate in Arts in Economics for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Economics at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Economics or a related field of study.

## Major/Program Requirements

### Required Courses:

<b>ECON 200</b>	<b>Principles of Macroeconomics</b>	<b>3.00</b>
	OR	
ECON 200H	Principles of Macroeconomics-Honors	3.00
<b>ECON 201</b>	<b>Principles of Microeconomics</b>	<b>3.00</b>
	OR	
ECON 201H	Principles of Microeconomics-Honors	3.00
MATH 110	Introduction to Probability and Statistics	4.00
	OR	
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00
MATH 250	Single Variable Calculus I	4.00
	OR	
MATH 141	Calculus for Business	4.00

### Students must complete at least three (3) additional units from the following courses:

MATH 102	College Algebra	4.00
MATH 160	Precalculus	4.00
MATH 251	Single Variable Calculus II	4.00
ACCT 208	Introduction to Financial Accounting	4.00
ACCT 209	Introduction to Managerial Accounting	4.00
<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b>	<b>3.00</b>

BUSAD 145	Business Communication	4.00
	OR	
COMMST 145	Business Communication	4.00

### Students must complete at least an additional three (3) units from the following courses:

MATH 102	College Algebra	4.00
MATH 160	Precalculus	4.00
MATH 251	Single Variable Calculus II	4.00
MATH 252	Multivariable Calculus	5.00
MATH 265	Linear Algebra	4.00
ACCT 208	Introduction to Financial Accounting	4.00
ACCT 209	Introduction to Managerial Accounting	4.00
<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b>	<b>3.00</b>

BUSAD 145	Business Communication	4.00
	OR	
COMMST 145	Business Communication	4.00

Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## English (ENGL)

Department: English & Reading

(Counseling 4-15) 6m

Faculty Chair: Constantine Papas, M.A.

Faculty: Kris Acquistapace, M.Ed., M.A., Ryan Bartlett, M.F.A., Robert Brown, M.A., Gwendolyn DiPonio, M.A., Liz Langenfeld, M.A., Constantine Papas, M.A., Ted Phillips, Ed.D

## Levels and Order of English Classes

### Associate in Arts in English for Transfer (AA-T) Degree...

The Associate in Arts-Transfer (AA-T) degree in English at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in English, English literature, creative writing or a related field of study.

### Major/Program Requirements

#### Required Courses:

ENGL 152H	Intermediate Composition and Literature - Honors	4.00
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#### Students must complete at least six (6) units from the following courses:

ENGL 260	Survey of American Literature I	3.00
ENGL 261	Survey of American Literature II	3.00
ENGL 270	Survey of British Literature I	3.00
ENGL 271	Survey of British Literature II	3.00
ENGL 280	World Literature to the 17th Century	3.00
ENGL 281	World literature from the 17th Century to the Present	3.00

#### Students must complete at least six (6) additional units from the following courses:

<b>ENGL 102</b>	<b>Intermediate Composition and Critical Thinking</b>	<b>4.00</b>
	OR	
ENGL 102H	Intermediate Composition and Critical Thinking-Honors	4.00
ENGL 232	Creative Writing	3.00
ENGL 260	Survey of American Literature I	3.00
ENGL 261	Survey of American Literature II	3.00
ENGL 270	Survey of British Literature I	3.00
ENGL 271	Survey of British Literature II	3.00
ENGL 280	World Literature to the 17th Century	3.00
ENGL 281	World literature from the 17th Century to the Present	3.00

#### Students must complete at least three (3) additional units from the following courses:

ENGL 108	World Drama I	3.00
	OR	
THART 108	World Drama I	3.00
ENGL 109	World Drama II	3.00
	OR	
THART 109	World Drama II	3.00
ENGL 120	Fundamentals of News Writing	3.00
	OR	
JOUR 120	Fundamentals of News Writing	3.00

ENGL 127	Introductory Literary Magazine Production: The Sand Canyon Review	3.00	JAPN 104	College Japanese IV	5.00
ENGL 150	Classical Mythology	3.00	RUS 101	College Russian I	5.00
<b>ENGL 155</b>	<b>Children's Literature</b>	<b>3.00</b>	RUS 102	College Russian II	5.00
	OR		SPAN 101	College Spanish I	5.00
ENGL 155H	Children's Literature-Honors	3.00	SPAN 102	College Spanish II	5.00
			SPAN 103	College Spanish III	5.00
<b>ENGL 160</b>	<b>Literature by Women</b>	<b>3.00</b>	SPAN 104	College Spanish IV	5.00
ENGL 163	Chicano/Latino Literature	3.00	THART 100	Introduction to Theatre	3.00
ENGL 170	The Film Experience	3.00		OR	
			THART 100H	Introduction to Theatre-Honors	3.00
ENGL 175	Literature and Religion of the Bible	3.00			
	OR		<i>Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at <a href="http://www.assist.org">www.assist.org</a>.</i>		
RELIG 175	Literature and Religion of the Bible	3.00	<b>English - Associate of Arts Degree</b>		
			<b>Major/Program Requirements</b>		
ENGL 226	Play and Screenplay Analysis	3.00	<b>Required Courses:</b>		
THART 226	Play and Screenplay Analysis	3.00	<b>ENGL 101</b>	<b>Freshman Composition</b>	<b>4.00</b>
				OR	
ENGL 232	Creative Writing	3.00	ENGL 101H	Freshman Composition-Honors	4.00
ENGL 250	Fiction	3.00			
ENGL 260	Survey of American Literature I	3.00	<b>ENGL 102</b>	<b>Intermediate Composition and Critical Thinking</b>	<b>4.00</b>
ENGL 261	Survey of American Literature II	3.00		OR	
ENGL 270	Survey of British Literature I	3.00	ENGL 102H	Intermediate Composition and Critical Thinking-Honors	4.00
ENGL 271	Survey of British Literature II	3.00		OR	
ENGL 275	Shakespeare	3.00	ENGL 152H	Intermediate Composition and Literature - Honors	4.00
ENGL 280	World Literature to the 17th Century	3.00			
ENGL 281	World literature from the 17th Century to the Present	3.00	<b>Student must complete at least six (6) units from the following courses:</b>		
ARABIC 101	College Arabic I	5.00	ENGL 270	Survey of American Literature I	3.00
ARABIC 102	College Arabic II	5.00	ENGL 261	Survey of American Literature II	3.00
ARABIC 103	College Arabic III	5.00	ENGL 270	Survey of British Literature I	3.00
ARABIC 104	College Arabic IV	5.00	ENGL 271	Survey of British Literature II	3.00
			<b>Student must complete at least six (6) additional units from the following courses:</b>		
COMMST 120	Oral Interpretation of Literature	3.00	ENGL 150	Classical Mythology	3.00
	OR				
COMMST 120H	Oral Interpretation of literature - Honors	3.00	<b>ENGL 155</b>	<b>Children's Literature</b>	<b>3.00</b>
				OR	
COMMST 145	Business Communication	4.00	ENGL 155H	Children's Literature-Honors	3.00
	OR				
BUSAD 145	Business Communication	4.00	<b>ENGL 160</b>	<b>Literature by Women</b>	<b>3.00</b>
			ENGL 163	Chicano/Latino Literature	3.00
FRENCH 101	College French I	5.00	ENGL 170	The Film Experience	3.00
FRENCH 102	College French II	5.00			
FRENCH 103	College French III	5.00	ENGL 175	Literature and Religion of the Bible	3.00
FRENCH 104	College French IV	5.00		OR	
HUM 101	The Humanities I: Prehistoric to Medieval	3.00			
HUM 102	The Humanities II: Renaissance to Post Modern	3.00			
JAPN 101	College Japanese I	5.00			
JAPN 102	College Japanese II	5.00			
JAPN 103	College Japanese III	5.00			

RELIG 175	Literature and Religion of the Bible	3.00
ENGL 232	Creative Writing	3.00
ENGL 250	Fiction	3.00
ENGL 260	Survey of American Literature I	3.00
ENGL 261	Survey of American Literature II	3.00
ENGL 270	Survey of British Literature I	3.00
ENGL 271	Survey of British Literature II	3.00
ENGL 275	Shakespeare	3.00
ENGL 280	World Literature to the 17th Century	3.00
ENGL 281	World literature from the 17th Century to the Present	3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Fire Technology (FIRET)

**Department:** Public Safety & Services

**Faculty Chair:** Gary Reese, B.S.M.

**Faculty:** Mike Alder, B.S., Daniel Sullivan, B.S.

### Fire Technology - Associate of Science Degree

**Candidates must successfully complete a minimum of 23.50 units of prescribed coursework. A minimum grade of "C" must be maintained in all prescribed coursework related to Fire Technology. NOTE: A "C" in these courses is considered to be 80% or higher.**

#### Major/Program Requirements

**Required Courses:**

FIRET 100	Fire Protection Organization	3.00
FIRET 101	Fire Prevention Technology	3.00
FIRET 102	Fire Behavior and Combustion	3.00
FIRET 103	Fire Protection Systems	3.00
FIRET 114	Principles of Fire and Emergency Services Safety and Survival	3.00
FIRET 116	Building Construction for Fire Protection	3.00

**A minimum of 5.50 units are to be selected from the following courses:**

FIRET 082	Fire Prevention 1A	2.50
FIRET 083	Fire Prevention 1B	2.50
FIRET 084	Fire Management 1	2.50
FIRET 085	Fire Command 1A	2.50
FIRET 086	Fire Command 1B	2.50
FIRET 087	Fire Investigation 1A	2.50
FIRET 088	Fire Investigation 1B	2.50
FIRET 104	Fire Apparatus and Equipment	3.00
FIRET 106	Fire Protection Hydraulics and Water Supply	3.00
FIRET 111	Public Education Officer	2.50
FIRET 112	Fire Control Fire Aircraft Rescue and Firefighting	2.50
FIRET 113	Fire Service Career Preparation	3.00

FIRET 118	Wildland Fire Control	3.00
FIRET 183	Aircraft Accidents	2.50

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

### California Fire Officer Training Certificate

The objective of this certificate is to provide students with a wide range of cognitive, affective, and psychomotor skills necessary to become an effective Fire Officer.

**Completion of the following 20.00 units may qualify the student to test for the position of First Line Fire Officer by applying to the California Fire Service Training and Education System through the California State Fire Marshal's Office in Sacramento, California. Candidates must successfully complete the prescribed course work with a grade of "C" or better.**

**Admission: Open to all students. Registration is limited to class size restrictions.**

#### Major/Program Requirements

**Required Courses:**

FIRET 080	Fire Instructor 1A	2.5
FIRET 081	Fire Instructor 1B	2.5
FIRET 082	Fire Prevention 1A	2.50
FIRET 083	Fire Prevention 1B	2.50
FIRET 084	Fire Management 1	2.50
FIRET 085	Fire Command 1A	2.50
FIRET 086	Fire Command 1B	2.50
FIRET 087	Fire Investigation 1A	2.50

### Firefighter I Basic Training Academy Certificate

The objective of this certificate is to develop the skills required for Firefighter I Certification and to develop the teamwork skills, attitudes and public service commitment necessary for employment in the fire service. Completion of this certificate may lead to entry-level employment as a firefighter in the public or private sectors. The Firefighter I Basic Training Academy is approved by the California State Fire Marshal's Office as an accredited Regional Training Center.

**Admission: Open to all students who have completed the prerequisite courses. Registration is limited to class size restrictions. Contact the Fire Technology program for application materials.**

**Admission to the Fire Academy will be based on a point system. Applicants earn points for each of the following:**

- 1 point Completed application delivered to the Crafton Hills College Fire Technology department two months prior to the start date of the Fire Academy
- 1 point Successful completion of FIRET 116, Building Construction for Fire Protection or the equivalent
- 1 point Successful completion of FIRET 103, Fire

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	Protection Systems or the equivalent
1 point	Successful completion of FIRET 102, Fire Behavior and Combustion or the equivalent
1 point	Successful completion of Principles of FIRET 114, Fire and Emergency Services Safety and Survival or the equivalent
5 points	Successful completion of AS degree in Fire Technology
10 points	Successful interview with the Academy Chief

### Major/Program Requirements

Candidates must successfully complete a minimum of (16) sixteen units of prescribed coursework. A minimum grade of "C" must be maintained in all required coursework to remain in the Fire Academy and to receive the Firefighter I Basic Training Academy Certificate. NOTE: A "C" or better in these courses is considered to be 80% or higher.

#### Prerequisites:

FIRET 100	Fire Protection Organization	3.00
FIRET 101	Fire Prevention Technology	3.00

EMS 020 or successful completion of the NREMT (National Registry Examination for the Emergency Medical Technician) or currently certified as an EMT in California

Completion of either a "CPAT" (Candidate Physical Ability Test) or the Biddle Physical Agility Test within four months prior to the first day of the academy.

Completion of the Crafton Hills College assessment test. (Note: A degree is accepted in lieu of assessment test results.)

Completed Medical Clearance for Firefighters.

Successful interview with the Academy Chief prior to acceptance into the Fire Academy.

#### Required Courses:

FIRET 049	Basic Firefighter Physical Fitness	2.00
FIRET 115	Firefighter I Basic Training Academy	14.00

#### Recommended Courses:

ENGL 101	Freshman Composition	4.00
	OR	
ENGL 101H	Freshman Composition-Honors	4.00
FIRET 902	Firefighter Physical Agility Preparation	3.00
MATH 090	Elementary Algebra	4.00

#### A student receiving a certificate in this field will be able to:

- Participate successfully in a culturally diverse environment
- Develop effective interpersonal communication skills
- Solve problems and makes decisions inherent to the profession

### Fire Inspection Academy Certificate

The objective of this certificate is to provide students with an introduction to fire prevention practices, human relations skills, inspection skills, knowledge of applicable codes and regulations, and a working knowledge of public education. Completion of this certificate

program may lead to employment as an entry-level fire inspector or fire safety specialist in the public or private sectors.

### Major/Program Requirements

#### Required Course:

Completion of the following 11.00 units with a grade of "C" or higher qualifies the student to apply for the Fire Inspection Academy Certificate.

FIRET 078	Fire Inspection Academy	11.00
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#### Recommended Courses:

FIRET 100	Fire Protection Organization	3.00
FIRET 101	Fire Prevention Technology	3.00

## French (FRENCH)

**Department:** Communication & Language

**Faculty Chair:** Breanna Andrews, M.A

### French - Associate of Arts Degree

The French program at Crafton Hills College provides students an opportunity to communicate in French as well as an understanding of French culture.

### Major/Program Requirements

#### Required Courses:

FRENCH 101	College French I	5.00
FRENCH 102	College French II	5.00
FRENCH 103	College French III	5.00
FRENCH 104	College French IV	5.00

#### A student completing courses in this field will be able to:

- Demonstrate language proficiency by writing and speaking French at a beginning level
- Interpret written and spoken messages in French at a beginning level
- Demonstrate appropriate knowledge of the French-speaking world regarding social interactions, beliefs, values, arts, literature, music and geography
- Define the concept of culture, appreciate other cultures and interact with members of those cultures in relation to their own
- Apply their knowledge of French language and culture beyond the classroom in interactions within multicultural communities and the world

## Geography (GEOG)

**Department:** Physical & Biological Sciences

**Faculty Chair:** Sam Truong, M.D.

**Faculty:** Richard Hughes, M.S.

### Associate in Arts in Geography for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Geography at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Geography or a related field of study.



## Major/Program Requirements

### Required Courses:

GEOG 102	Cultural Geography	3.00
	OR	
GEOG 102H	Cultural Geography-Honors	3.00
GEOG 110	Physical Geography	3.00
	OR	
GEOG 110H	Physical Geography-Honors	3.00
GEOG 111	Physical Geography Laboratory	1.00
	OR	
GEOG 111H	Physical Geography Laboratory-Honors	1.00

**Students must complete at least six (6) units from the following courses:**

### Required Courses, List A

GEOG 114	Investigations in Weather and Climate	4.00
	OR	
GEOG 115	Elements of Weather and Climate	3.00
GEOG 120	World Regional Geography	3.00
GEOG 126	Geography of California	3.00

**Students must complete six (6) additional units from the following courses:**

### Required Courses, List B

GEOL 100	Physical Geology	4.00
	OR	
GEOL 100H	Physical Geology-Honors	4.00
	OR	
<b>GEOL 101</b>	<b>Introduction to Geology</b>	<b>3.00</b>
	OR	
GEOL 101H	Introduction to Geology-Honors	3.00
	AND	
GEOL 160	Geology Laboratory	1.00
GIS 175	Introduction to Information Mapping	3.00
<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
	OR	
ANTHRO 102H	Cultural Anthropology-Honors	3.00
GEOG 114	Investigations in Weather and Climate	4.00
GEOG 115	Elements of Weather and Climate	3.00
GEOG 120	World Regional Geography	3.00
GEOG 126	Geography of California	3.00

Field experiences including GEOL 170, GEOL 175, GEOL 177, GEOL 180, GEOL 181, GEOL 190, and GEOL 270 are not required to earn the degree but are recommended for students preparing to major in geography at a four year institution.

Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Geography - Associate of Science Degree

### Major/Program Requirements

#### Required Courses:

GEOG 102	Cultural Geography	3.00
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	OR	
GEOL 102H	Cultural Geography-Honors	3.00
GEOG 110	Physical Geography	3.00
	OR	
GEOG 110H	Physical Geography-Honors	3.00
GEOG 111	Physical Geography Laboratory	1.00
	OR	
GEOG 111H	Physical Geography Laboratory-Honors	1.00
GEOL 100	Physical Geology	4.00
	OR	
GEOL 100H	Physical Geology-Honors	4.00
	OR	
GEOL 160	Geology Laboratory	1.00
	AND	
<b>GEOL 101</b>	<b>Introduction to Geology</b>	<b>3.00</b>
	OR	
GEOL 101H	Introduction to Geology-Honors	3.00
GIS 175	Introduction to Information Mapping	3.00
<b>Students must complete at least eight (8) units from the following courses:</b>		
GEOG 120	World Regional Geography	3.00
GEOG 126	Geography of California	3.00
<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
	OR	
ANTHRO 102H	Cultural Anthropology-Honors	3.00
<b>ANTHRO 106</b>	<b>Biological Anthropology</b>	<b>3.00</b>
	OR	
ANTHRO 106H	Biological Anthropology-Honors	3.00
CHEM 101	Introduction to Chemistry	4.00
	OR	
CHEM 150	General Chemistry I	5.00
	OR	
CHEM 150H	General Chemistry I-Honors	5.00
CHEM 151	General Chemistry II	5.00
	OR	
CHEM 151H	General Chemistry II-Honors	5.00
GEOL 170	Geologic History of the Great Basin	1.00
GEOL 175	Geology of the Eastern Mojave Desert	1.00
GEOL 177	Geology of the High Desert and Western Mojave Desert Region	1.00
GEOL 180	Geology of Joshua Tree National Park	1.00
GEOL 181	Geology of the Anza Borrego Region	1.00
GEOL 190	Geology of the Eastern Sierra Nevada, Northern Section	1.00
GEOL 250	Geology of California	3.00

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GEOL 270	Geology of the Eastern Sierra Nevada	1.00
<b>MATH 103</b>	<b>Plane Trigonometry</b>	<b>4.00</b>
POLIT 102	California Politics and Culture	3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

### A student receiving a degree in this field will be able to:

- Demonstrate an understanding of the types of plate tectonic boundaries and the typical features associated with those boundaries, such as volcanoes and earthquakes
- Utilize critical thinking skills to interpret, apply and/or evaluate an Earth Science topic, such as the concept of scale
- Students will be able to collect, analyze and interpret information and clearly articulate the results through their writing, speech or other acceptable style of presentation
- Display knowledge in the basic areas of Earth Science that are appropriate to each Earth Science course

## Geology (GEOL)

**Department:** Physical & Biological Sciences

**Faculty Chair:** Sam Truong, M.D.

**Faculty:** Richard Hughes, M.S.

The Geology program at Crafton Hills College introduces students to the primary processes, concepts, and theories that pertain to the geological sciences and related fields relevant to geology.

### Associate in Science in Geology for Transfer (AS-T) Degree

The Associate in Science-Transfer (AS-T) degree in Geology at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Geology or a related field of study.

### Major/Program Requirements

#### Required Courses:

GEOL 100	Physical Geology	4.00
	OR	
GEOL 100H	Physical Geology-Honors	4.00
	OR	
GEOL 160	Geology Laboratory	1.00
	AND	
<b>GEOL 101</b>	<b>Introduction to Geology</b>	<b>3.00</b>
	OR	
GEOL 101H	Introduction to Geology-Honors	3.00
GEOL 112	Historical Geology	4.00
GEOL 150	Geology and the Environment	3.00
	OR	
GEOL 150H	Geology and the Environment-Honors	3.00

CHEM 150	General Chemistry I	5.00
	OR	
CHEM 150H	General Chemistry I-Honors	5.00
CHEM 151	General Chemistry II	5.00
	OR	
CHEM 151H	General Chemistry II-Honors	5.00
MATH 250	Single Variable Calculus I	4.00
MATH 251	Single Variable Calculus II	4.00

### Recommended Courses

The following courses and field experiences including GEOL 170, GEOL 175, GEOL 180, GEOL 181, GEOL 190 and GEOL 270 are not required to earn the degree but are recommended for students preparing to major in geology at a four-year institution.

BIOL 100	General Biology	4.00
MATH 252	Multivariable Calculus	5.00
PHYSIC 250	College Physics I	4.00
PHYSIC 251	College Physics II	4.00
PHYSIC 252	College Physics III	4.00

PHYSIC 250: Students may substitute PHYSIC 200 or PHYSIC 201 in lieu of PHYSIC 250 PHYSIC 251 PHYSIC 252. See a counselor for details.

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

### A student receiving a degree in this field will be able to:

- Demonstrate an understanding of the types of plate tectonic boundaries and the typical features associated with those boundaries, such as volcanoes and earthquakes.
- Utilize critical thinking skills to interpret, apply and/or evaluate an Earth Science topic, such as the concept of scale
- Students will be able to collect, analyze and interpret information and clearly articulate the results through their writing, speech or other acceptable style of presentation
- Display knowledge in the basic areas of Earth Science that are appropriate to each Earth Science course

## Geology - Associate of Science Degree

### Major/Program Requirements

#### Required Courses:

GEOL 100	Physical Geology	4.00
	OR	
GEOL 100H	Physical Geology-Honors	4.00
	OR	
GEOL 160	Geology Laboratory	1.00
	AND	
GEOL 101	Introduction to Geology	3.00
	OR	
GEOL 101H	Introduction to Geology-Honors	3.00

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GEOL 112	Historical Geology	4.00
CHEM 150	General Chemistry I OR	5.00
CHEM 150H	General Chemistry I-Honors	5.00
CHEM 151	General Chemistry II OR	5.00
CHEM 151H	General Chemistry II-Honors	5.00
MATH 250	Single Variable Calculus I	4.00
MATH 251	Single Variable Calculus II	4.00
PHYSIC 250	College Physics I	4.00

PHYSIC 250: Students may substitute PHYSIC 200 in lieu of PHYSIC 250. See a counselor for details.

### **Students must complete at least two (2) units from the following courses:**

GEOL 170	Geologic History of the Great Basin	1.00
GEOL 175	Geology of the Eastern Mojave Desert	1.00
GEOL 177	Geology of the High Desert and Western Mojave Desert Region	1.00
GEOL 180	Geology of Joshua Tree National Park	1.00
GEOL 181	Geology of the Anza Borrego Region	1.00
GEOL 190	Geology of the Eastern Sierra Nevada, Northern Section	1.00
GEOL 270	Geology of the Eastern Sierra Nevada	1.00

### **Recommended Courses:**

PHYSIC 251	College Physics II	4.00
PHYSIC 252	College Physics III	4.00
GEOL 170	Geologic History of the Great Basin	1.00
GEOL 175	Geology of the Eastern Mojave Desert	1.00
GEOL 180	Geology of Joshua Tree National Park	1.00
GEOL 181	Geology of the Anza Borrego Region	1.00
GEOL 190	Geology of the Eastern Sierra Nevada, Northern Section	1.00
GEOL 250	Geology of California	3.00
GEOL 251	Geology of National Parks and Monuments	3.00
GEOL 270	Geology of the Eastern Sierra Nevada	1.00
GIS 175	Introduction to Information Mapping	3.00
OCEAN 101	Elements of Oceanography	3.00

Students may substitute PHYSIC 200 in lieu of PHYSIC 250. See a counselor for details.

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## History (HIST)

**Department:** Social Science  
**Faculty Chair:** Julie McKee, M.A.  
**Faculty:** Jane Beitscher, Ph.D.

## Associate in Arts in History for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in History at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in History or a related field of study.

### Major/Program Requirements

#### **Required Courses:**

<b>HIST 100</b>	<b>History of the United States to 1877</b>	<b>3.00</b>
	OR	
HIST 100H	History of the United States to 1877- Honors	3.00
<b>HIST 101</b>	<b>History of the United States 1865 to Present</b>	<b>3.00</b>
	OR	
HIST 101H	History of the United States 1865 to Present- Honors	3.00
HIST 170	World Civilizations (3500 BCE-1500 CE)	3.00
	OR	
HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00
HIST 171	World Civilizations (1500 CE to the Present)	3.00
	OR	
HIST 171H	World Civilizations (1500 CE to the Present) - Honors	3.00

#### **Students must complete at least three (3) units from the following courses:**

HIST 107	The United States and the North American Indians	3.00
	OR	
ANTHRO 107	The United States and the North American Indians	3.00
ARABIC 101	College Arabic I	5.00
ARABIC 102	College Arabic II	5.00
ARABIC 103	College Arabic III	5.00
ARABIC 104	College Arabic IV	5.00
ASL 101	American Sign Language I	4.00
ASL 102	American Sign Language II	4.00
ASL 103	American Sign Language III	4.00
ASL 104	American Sign Language IV	4.00
<b>COMMST 174</b>	<b>Communication in a Diverse World</b>	<b>3.00</b>
<b>ENGL 160</b>	<b>Literature by Women</b>	<b>3.00</b>
ENGL 163	Chicano/Latino Literature	3.00
ENGL 280	World Literature to the 17th Century	3.00
ENGL 281	World literature from the 17th Century to the Present	3.00
FRENCH 101	College French I	5.00
FRENCH 102	College French II	5.00
FRENCH 103	College French III	5.00
FRENCH 104	College French IV	5.00
JAPN 101	College Japanese I	5.00

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JAPN 102	College Japanese II	5.00	HUM 101	The Humanities I: Prehistoric to Medieval	3.00
JAPN 103	College Japanese III	5.00	HUM 102	The Humanities II: Renaissance to Post Modern	3.00
JAPN 104	College Japanese IV	5.00	HUM 140	Humanities Through the Arts	3.00
MCS 110	The American Deaf Experience: Introduction to Deaf Studies	3.00	<b>JOUR 135</b>	<b>Mass Communication in Society</b>	<b>3.00</b>
POLIT 104	Introduction to Comparative Politics	3.00	OR		
POLIT 106	Introduction to World Politics	3.00	<b>COMMST 135</b>	<b>Mass Communication in Society</b>	<b>3.00</b>
<b>RELIG 101</b>	<b>Introduction to World Religions</b>	<b>3.00</b>	<b>MUSIC 103</b>	<b>Appreciation of American Popular Music</b>	<b>3.00</b>
	OR		OR		
RELIG 101H	Introduction to World Religions-Honors	3.00	MUSIC 103H	Appreciation of American Popular Music-Honors	3.00
RELIG 110	Tribal and Ethnic Religions	3.00	<b>MUSIC 120</b>	<b>Appreciation of Musical Literature</b>	<b>3.00</b>
	OR		OR		
ANTHRO 110	Tribal and Ethnic Religions	3.00	MUSIC 120H	Appreciation of Musical Literature- Honors	3.00
RUS 101	College Russian I	5.00	<b>MUSIC 134</b>	<b>Jazz History</b>	<b>3.00</b>
RUS 102	College Russian II	5.00	<b>PHIL 101</b>	<b>Introduction to Philosophy</b>	<b>3.00</b>
SOC 141	Minority Relations	3.00	OR		
SPAN 101	College Spanish I	5.00	PHIL 101H	Introduction to Philosophy-Honors	3.00
SPAN 102	College Spanish II	5.00	POLIT 100	American Politics	3.00
SPAN 103	College Spanish III	5.00	OR		
SPAN 104	College Spanish IV	5.00	POLIT 100H	American Politics-Honors	3.00
<b>Students must complete at least three (3) additional units from the following courses:</b>					
HIST 107	The United States and the North American Indians	3.00	POLIT 102	California Politics and Culture	3.00
	OR		POLIT 104	Introduction to Comparative Politics	3.00
ANTHRO 107	The United States and the North American Indians	3.00	POLIT 106	Introduction to World Politics	3.00
<b>HIST 135</b>	<b>Religion in America</b>	<b>3.00</b>	POLIT 110	Introduction to Political Theory	3.00
	OR		<b>PSYCH 100</b>	<b>General Psychology</b>	<b>3.00</b>
RELIG 135	Religion in America	3.00	OR		
<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>	PSYCH 100H	General Psychology- Honors	3.00
	OR		<b>RELIG 100</b>	<b>Introduction to Religious Studies</b>	<b>3.00</b>
ANTHRO 102H	Cultural Anthropology-Honors	3.00	OR		
HIST 145	California History	3.00	RELIG 100H	Introduction to Religious Studies-Honors	3.00
ART 100	Art History I: Prehistoric Art to Medieval Art	3.00	<b>RELIG 101</b>	<b>Introduction to World Religions</b>	<b>3.00</b>
ART 102	Art History II: Renaissance Art to Contemporary Art	3.00	OR		
<b>ECON 100</b>	<b>Introduction to Economics</b>	<b>3.00</b>	RELIG 101H	Introduction to World Religions-Honors	3.00
<b>ECON 200</b>	<b>Principles of Macroeconomics</b>	<b>3.00</b>	RELIG 110	Tribal and Ethnic Religions	3.00
	OR		OR		
ECON 200H	Principles of Macroeconomics-Honors	3.00	ANTHRO 110	Tribal and Ethnic Religions	3.00
<b>ECON 201</b>	<b>Principles of Microeconomics</b>	<b>3.00</b>	<b>SOC 100</b>	<b>Introduction to Sociology</b>	<b>3.00</b>
	OR		OR		
ECON 201H	Principles of Microeconomics-Honors	3.00	SOC 100H	Introduction to Sociology-Honors	3.00
GEOG 120	World Regional Geography	3.00	<i>Prospective transfer students should complete the general education and lower division requirements of the school to which they will be</i>		

transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

**A student receiving a degree in this field will be able to:**

- Demonstrate an understanding that History shares with English a narrative tradition that relies on the written word to tell its story by evaluating documents
- Discuss and appraise the influence of multiple factors or "causes" in an historical event or development
- Recognize and evaluate the influence of contingency or chance in an historical event or development
- Compare, contrast and evaluate the influence or role of actions or inaction in determining an outcome in an historical event or development
- Considering History's multidiscipline nature, describe and appraise the role that "environment" (physical, social, cultural, technological and economic, etc.) may play in an historical event or development
- Critique and evaluate an historical event or development as a study of human activity and conclude how it informs us about human nature
- Analyze and evaluate an historical event or development that demonstrates the fact that at times we cannot have absolute certainty about what happened in the past

**History - Associate of Arts Degree**

**Major/Program Requirements**

**Required Courses:**

<b>HIST 100</b>	<b>History of the United States to 1877</b>	<b>3.00</b>
	OR	
HIST 100H	History of the United States to 1877- Honors	3.00
<b>HIST 101</b>	<b>History of the United States 1865 to Present</b>	<b>3.00</b>
	OR	
HIST 101H	History of the United States 1865 to Present- Honors	3.00
HIST 170	World Civilizations (3500 BCE-1500 CE)	3.00
	OR	
HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00
HIST 171	World Civilizations (1500 CE to the Present)	3.00
	OR	
HIST 171H	World Civilizations (1500 CE to the Present) - Honors	3.00

**Students must complete at least six (6) units from the following courses:**

HIST 107	The United States and the North American Indians	3.00
	OR	
ANTHRO 107	The United States and the North American Indians	3.00

<b>HIST 135</b>	<b>Religion in America</b>	<b>3.00</b>
	OR	
RELIG 135	Religion in America	3.00
HIST 145	California History	3.00
<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
	OR	
ANTHRO 102H	Cultural Anthropology-Honors	3.00
ANTHRO 110	Tribal and Ethnic Religions	3.00
	OR	
RELIG 110	Tribal and Ethnic Religions	3.00
<b>ART 100</b>	<b>Art History I: Prehistoric Art to Medieval Art</b>	<b>3.00</b>
<b>ART 102</b>	<b>Art History II: Renaissance Art to Contemporary Art</b>	<b>3.00</b>
<b>ECON 100</b>	<b>Introduction to Economics</b>	<b>3.00</b>
<b>ECON 200</b>	<b>Principles of Macroeconomics</b>	<b>3.00</b>
	OR	
ECON 200H	Principles of Macroeconomics-Honors	3.00
<b>ECON 201</b>	<b>Principles of Microeconomics</b>	<b>3.00</b>
	OR	
ECON 201H	Principles of Microeconomics-Honors	3.00
ENGL 260	Survey of American Literature I	3.00
ENGL 261	Survey of American Literature II	3.00
ENGL 280	World Literature to the 17th Century	3.00
ENGL 281	World literature from the 17th Century to the Present	3.00
GEOG 102	Cultural Geography	3.00
	OR	
GEOG 102H	Cultural Geography-Honors	3.00
GEOG 120	World Regional Geography	3.00
	OR	
GEOG 126	Geography of California	3.00
<b>MUSIC 103</b>	<b>Appreciation of American Popular Music</b>	<b>3.00</b>
	OR	
MUSIC 103H	Appreciation of American Popular Music-Honors	3.00
<b>MUSIC 120</b>	<b>Appreciation of Musical Literature</b>	<b>3.00</b>
	OR	
MUSIC 120H	Appreciation of Musical Literature- Honors	3.00
<b>MUSIC 134</b>	<b>Jazz History</b>	<b>3.00</b>

<b>PHIL 101</b>	<b>Introduction to Philosophy</b>	<b>3.00</b>
	OR	
PHIL 101H	Introduction to Philosophy-Honors	3.00
POLIT 100	American Politics	3.00
	OR	
POLIT 100H	American Politics-Honors	3.00
POLIT 102	California Politics and Culture	3.00
POLIT 104	Introduction to Comparative Politics	3.00
POLIT 106	Introduction to World Politics	3.00
POLIT 110	Introduction to Political Theory	3.00
<b>RELIG 100</b>	<b>Introduction to Religious Studies</b>	<b>3.00</b>
	OR	
RELIG 100H	Introduction to Religious Studies-Honors	3.00
<b>RELIG 101</b>	<b>Introduction to World Religions</b>	<b>3.00</b>
	OR	
RELIG 101H	Introduction to World Religions-Honors	3.00
RELIG 113	Introduction to Eastern Religions	3.00
RELIG 176	Jesus and His Interpreters	3.00
<b>SOC 100</b>	<b>Introduction to Sociology</b>	<b>3.00</b>
	OR	
SOC 100H	Introduction to Sociology-Honors	3.00
SOC 141	Minority Relations	3.00
THART 108	World Drama I	3.00
	OR	
ENGL 108	World Drama I	3.00
THART 109	World Drama II	3.00
	OR	
ENGL 109	World Drama II	3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Japanese (JAPN)

**Department:** Communication & Language

**Faculty Chair:** Breanna Andrews, M.A.

### Japanese - Associate of Arts Degree

#### Major/Program Requirements

**Required Courses:**

JAPN 101	College Japanese I	5.00
JAPN 102	College Japanese II	5.00

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JAPN 103	College Japanese III	5.00
JAPN 104	College Japanese IV	5.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

**A student receiving a degree in this field will be able to:**

- Demonstrate language proficiency by writing and speaking Japanese at a beginning to intermediate level
- Interpret written and spoken messages in Japanese at a beginning to intermediate level
- Demonstrate appropriate knowledge of the Japanese-speaking world regarding social interactions, beliefs, values, arts, literature, music and geography
- Define the concept of culture, appreciate other cultures and interact with members of those cultures in relation to their own
- Apply their knowledge of Japanese language and culture beyond the classroom in interactions within multicultural communities and the world

## Kinesiology

**Department:** Kinesiology & Health

**Faculty Chair:** Janine Ledoux, P.h.D, Ralph Rabago, M.S.

**Faculty:** Janine Ledoux, P.h.D, Ralph Rabago, M.S.

**A student completing skill courses in this field will be able to:**

- Warm-up properly to minimize the risk of injury and prepare for activity, wear attire appropriate for the activity, and use equipment appropriate for the activity
- Demonstrate knowledge of rules, approaches, and strategies specific to the sport/activity
- Conduct themselves with character, respect, good sportsmanship and etiquette appropriate to the customs and traditions of the activity

**A student completing dance courses in this field will be able to:**

- Design, evaluate, or critique a dance performance in terms of choreography and technical performance associated with a specific dance form
- Perform a dance piece in a style-specific dance or discipline
- Demonstrate adequate physical skill or technique in performance
- Recognize and describe the impact or influence of music on the specific dance form

**A student completing fitness courses in this field will be able to:**

- Warm-up properly to minimize the risk of injury and prepare for activity, wear attire appropriate for the activity
- Demonstrate knowledge of principles for safe participation and physiological improvement in keeping with the goals of the specific activity
- Improve performance through increased levels of physical development associated with the goals of the specific activity

- Demonstrate an understanding of the benefits associated with the participation in fitness activities

### Associate in Arts in Kinesiology for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Kinesiology at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Kinesiology or a related field of study. Students earning this degree will be able to explain the importance of physical activity in daily life and the implications of this for the discipline of kinesiology, how it is structured, and the types of knowledge studied by its scholars and applied in professional practice; defend the integrative nature of the field of kinesiology; identify the nature and demands of professional occupations, the career options available to students graduating from departments of kinesiology, and the qualifications associated with each; demonstrate knowledge of principles for safe participation and physiological improvement in keeping with the goals of a specific physical activity; and demonstrate an understanding of the benefit associated with the participation in physical activities.

#### Major/Program Requirements

##### Required Courses:

KIN 200	Introduction to Kinesiology	3.00
ANAT 150	Human Anatomy and Physiology I	4.00
ANAT 151	Human Anatomy and Physiology II	4.00

**Students must complete one (1) unit from any three (3) of the following movement-based course areas:**

##### Aquatics

KIN/S 164A	Swimming I	.50-1.00
KIN/S 164B	Swimming II	.50-1.00
KIN/S 164C	Swimming III	.50-1.00
KIN/S 164D	Swimming IV	.50-1.00
KIN/F 173A	Water Aerobics and Deep Water Exercise I	.50-1.00
KIN/F 173B	Water Aerobics and Deep Water Exercise II	.50-1.00
KIN/F 173C	Water Aerobics and Deep Water Exercise III	.50-1.00
KIN/F 173D	Water Aerobics and Deep Water Exercise IV	.50-1.00

##### Combatives

KIN/S 159A	Karate I	.50-1.00
KIN/S 159B	Karate II	.50-1.00
KIN/S 159C	Karate III	.50-1.00
KIN/S 159D	Karate IV	.50-1.00

##### Team Sports

KIN/S 116A	Soccer I	.50-1.00
KIN/S 116B	Soccer II	.50-1.00
KIN/S 116C	Soccer III	.50-1.00
KIN/S 116D	Soccer IV	.50-1.00
KIN/S 193A	Softball I	.50-1.00
KIN/S 193B	Softball II	.50-1.00
KIN/S 193C	Softball III	.50-1.00
KIN/S 193D	Softball IV	.50-1.00

##### Individual Sports

KIN/S 120A	Golf I	.50-1.00
KIN/S 120B	Golf II	.50-1.00
KIN/S 120C	Golf III	.50-1.00
KIN/S 120D	Golf IV	.50-1.00
KIN/S 148A	Tennis I	.50-1.00
KIN/S 148B	Tennis II	.50-1.00
KIN/S 148C	Tennis III	.50-1.00
KIN/S 148D	Tennis IV	.50-1.00

##### Fitness

KIN/F 105A	Aerobic Conditioning I	.50-1.00
KIN/F 105B	Aerobic Conditioning II	.50-1.00
KIN/F 105C	Aerobic Conditioning III	.50-1.00
KIN/F 105D	Aerobic Conditioning IV	.50-1.00
KIN/F 108A	Resistance and Weight Training I	.50-1.00
KIN/F 108B	Resistance and Weight Training II	.50-1.00
KIN/F 108C	Resistance and Weight Training III	.50-1.00
KIN/F 108D	Resistance and Weight Training IV	.50-1.00
KIN/F 127A	Walking for Fitness I	.50-1.00

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KIN/F 127B	Walking for Fitness II	.50- 1.00
KIN/F 127C	Walking for Fitness III	.50- 1.00
KIN/F 127D	Walking for Fitness IV	.50- 1.00
KIN/F 168A	Yoga I	.50- 1.00
KIN/F 168B	Yoga II	.50- 1.00
KIN/F 168C	Yoga III	.50- 1.00
KIN/F 168D	Yoga IV	.50- 1.00
KIN/F 190A	Tai Chi I	.50- 1.00
KIN/F 190B	Tai Chi II	.50- 1.00
KIN/F 190C	Tai Chi III	.50- 1.00
KIN/F 190D	Tai Chi IV	.50- 1.00

### Dance

KIN/D 163A/DANCE 163A	Ballroom/Swing/Salsa I	.50- 1.00
KIN/D 163B/DANCE 163B	Ballroom/Swing/Salsa II	.50- 1.00
KIN/D 163C/DANCE 163C	Ballroom/Swing Salsa III	.50- 1.00
KIN/D 163D/DANCE 163D	Ballroom/Swing Salsa IV	.50- 1.00

**Students must complete at least six (6) additional units from the following list:**

MATH 110	Introduction to Probability and Statistics	4.00
CHEM 150	General Chemistry I OR	5.00
CHEM 150H	General Chemistry I-Honors	5.00
PHYSIC 110	General Physics I OR	4.00
PHYSIC 250	College Physics I	4.00
KIN 231	First Aid and CPR	3.00

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

## Marketing (MARKET)

**Department:** Business, Economics & Information Technology  
**Faculty Chair:** Margaret Yau, M.S.

## Marketing Management Certificate of Achievement

The objective of this certificate program is to provide entry-level, marketable employment skills to equip the student with a basic understanding of the terminology and basic concepts/procedures used in the marketing field, and to acquaint the student with the various sub-functions within the overall field of marketing. Completion of the certificate program will prepare the student for entry-level employment in a variety of related occupations including retail sales clerk, outside sales representative, advertising, merchandiser, distribution, or customer service representative.

### Major/Program Requirements

#### Required Courses:

ACCT 208	Introduction to Financial Accounting	4.00
<b>BUSAD 100</b>	<b>Introduction to Business</b>	<b>3.00</b>
BUSAD 105	Entrepreneurship and Small Business Management	3.00
BUSAD 145	Business Communication OR	4.00
COMMST 145	Business Communication	4.00
BUSAD 155	Human Relations in the Workplace OR	3.00
COMMST 155	Human Relations in the Workplace OR	3.00
COMMST 111	Interpersonal Communication OR	3.00
COMMST 111H	Interpersonal Communication-Honors OR	3.00
COMMST 140	Small Group Communication	3.00
<b>CIS 101</b>	<b>Introduction to Computer and Information Technology</b> OR	<b>3.00</b>
BUSAD 230	Using Computers for Business	3.00
CIS 111	Web Page Programming and Design	3.00
CIS 163	Introduction to PhotoShop	3.00
MARKET 100	Marketing Principles	3.00
MARKET 110	Advertising	3.00

#### A student receiving a certificate in this field will be able to:

- Demonstrate the ability to explain and apply marketing principles pertaining to promotion, advertising, public relations, and personal selling
- Demonstrated the ability to explain the major legislative acts and issues in ethics and social responsibility as they pertain to marketing and advertising
- Demonstrate the ability to explain the various trade alliance and market mechanisms affecting global marketing
- Demonstrate the ability to explain and apply the various types and sources of marketing research, product research, and media research information



- Demonstrate the ability to explain the functions of the operating and merchandising divisions within retailing operations

## Mathematics (MATH)

**Department:** Mathematics

**Faculty Chair:** Scott Rippey, M.A.

**Faculty:** Brandi Bailes, M.S., Robert Crise, M.A., Jodi Hanley, M.A., Stephen Ramirez, Ph.D., Scott Rippey, M.A., Sherri Wilson, M.S.

### Associate in Science in Mathematics for Transfer (AS-T) Degree

The Associate in Science-Transfer (AS-T) degree in Mathematics at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Mathematics or a related field of study.

#### Major/Program Requirements

##### Required Courses:

MATH 250	Single Variable Calculus I	4.00
MATH 251	Single Variable Calculus II	4.00
MATH 252	Multivariable Calculus	5.00

**Students must complete at least six (6) units from the following courses, with at least three (3) units from Group A:**

##### Group A

MATH 265	Linear Algebra	4.00
MATH 266	Introduction to Ordinary Differential Equations	4.00

##### Group B

MATH 255	Computer-Based Problems for Calculus	1.00-2.00
MATH 110	Introduction to Probability and Statistics	4.00
CIS 114	C++ Programming I	3.00
CIS 116	C++ Programming II	3.00
PHYSIC 250	College Physics I	4.00
CSCI 110	Introduction to Computer Science I	3.00
<b>CSCI 120</b>	<b>Introduction to Computer Science II</b>	<b>3.00</b>

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

### Mathematics - Associate of Science Degree

The Mathematics department offers a major program which may be adapted to serve a variety of needs and interests. Students may develop elective patterns which will prepare them to transfer to an upper division mathematics program or for employment.

#### Major/Program Requirements

##### Required Courses:

MATH 250	Single Variable Calculus I	4.00
MATH 251	Single Variable Calculus II	4.00
MATH 252	Multivariable Calculus	5.00

**Students must complete at least five (5) units from the following courses:**

<b>MATH 115</b>	<b>The Ideas of Mathematics</b>	<b>3.00</b>
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MATH 200	Discrete Structures	4.00
	OR	
CSCI 200	Discrete Structures	4.00
MATH 265	Linear Algebra	4.00
MATH 266	Introduction to Ordinary Differential Equations	4.00
CIS 114	C++ Programming I	3.00
CIS 116	C++ Programming II	3.00
PHYSIC 110	General Physics I	4.00
PHYSIC 111	General Physics II	4.00
PHYSIC 250	College Physics I	4.00
PHYSIC 251	College Physics II	4.00
PHYSIC 252	College Physics III	4.00
MATH 110	Introduction to Probability and Statistics	4.00
CSCI 110	Introduction to Computer Science I	3.00
<b>CSCI 120</b>	<b>Introduction to Computer Science II</b>	<b>3.00</b>
MATH 255	Computer-Based Problems for Calculus	1.00-2.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Microbiology (MICRO)

**Department:** Physical & Biological Sciences

**Faculty Chair:** Sam Truong, M.D.

**Faculty:** Lisa Shimeld, M.S.

### Microbiology - Associate of Science Degree see BIOLOGY (p. 23)

## Multidisciplinary Studies

For more information about the Multidisciplinary degrees offered at Crafton Hills College see the following:

Associate of Arts Fine Arts Degree

Associate of Arts Humanities Degree

Associate of Arts Liberal Studies - Teacher Preparation Degree

Associate of Arts Social Science Degree

Associate of Science Environmental Science Degree

Associate of Science Multiple Sciences Degree

Associate of Science Health Sciences Degree

## Music (MUSIC)

**Department:** Fine Arts

**Faculty Chair:** Mark McConnell, M.M.

**Faculty:** Mark McConnell, M.M.

## Associate in Arts in Music for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Music at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to pursue a Bachelor of Arts in Music degree.

### Major/Program Requirements

#### Required Courses:

MUSIC 101	Music Theory I	4.00
MUSIC 102	Music Theory II	4.00
MUSIC 201	Music Theory III	4.00
MUSIC 202	Music Theory IV	4.00
MUSIC 141X4	Applied Music	.50

MUSIC 141X4: Must be taken four times for a total of 2 units.

#### Required Ensemble Courses:

MUSIC 150X4	Concert Choir OR	1.00
MUSIC 174X4	Jazz Band	1.00

Total of 4 units of any combination of ensemble courses.

IGETC is the only approved general education pattern for this degree.

Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC). See counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Music - Associate of Arts Degree

The Crafton Hills College Music Program provides basic training in Common Practice Era Theory, Western history, and practice/performance techniques. There are two ensembles (Jazz Ensemble and Choir) that perform 6-8 concerts each year and the Music Program hosts a Music Major recital each semester.

### Major/Program Requirements

#### Required Courses:

MUSIC 101	Music Theory I	4.00
MUSIC 102	Music Theory II	4.00
<b>MUSIC 120</b>	<b>Appreciation of Musical Literature</b>	<b>3.00</b>
	OR	
MUSIC 120H	Appreciation of Musical Literature- Honors	3.00
MUSIC 141X4	Applied Music	.50
MUSIC 135	Piano I	2.00
MUSIC 136	Piano II	2.00
MUSIC 235	Piano III	2.00
MUSIC 236	Piano IV	2.00

MUSIC 141X4: Must be taken two times

MUSIC 135, MUSIC 136, MUSIC 235, and MUSIC 236: Students may receive credit for piano courses through credit by examination. Students may receive credit only in sequence from the lowest to highest level. See a counselor for details.

#### Students must complete at least eight (8) units from the following:

MUSIC 132	Guitar I	2.00
MUSIC 133	Guitar II	2.00

MUSIC 150X4	Concert Choir	1.00
MUSIC 164X4	Concert Band	2.00
MUSIC 174X4	Jazz Band	1.00
MUSIC 179X4	Contemporary Ensemble	2.00
MUSIC 232	Guitar III	2.00
MUSIC 233	Guitar IV	2.00
MUSIC 247A	Special Projects in Music	1.00-3.00
MUSIC 247B	Special Projects in Music	1.00-3.00
MUSIC 247C	Special Projects in Music	1.00-3.00
MUSIC 247D	Special Projects in Music	1.00-3.00

#### Students must complete at least three (3) additional units from the following:

MUSIC 100	Fundamental Skills in Music	3.00
<b>MUSIC 103</b>	<b>Appreciation of American Popular Music</b>	<b>3.00</b>
	OR	
MUSIC 103H	Appreciation of American Popular Music- Honors	3.00
<b>MUSIC 134</b>	<b>Jazz History</b>	<b>3.00</b>
MUSIC 180X4	Musical Theatre Workshop	2.00
MUSIC 190	Songwriting and Composition	3.00
MUSIC 195	Music Technology and Recording	4.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

#### A student receiving a degree in this field will be able to:

- Demonstrate the ability to read and write standard notation: Given a piece of music in standard notation, demonstrate the ability to read and perform, ability to construct a Baroque style 4 voice harmonic progression.
- Perform at a College Level: Demonstrate through jury, ensemble performance, or recital the ability to play a piece from the body of Western Classical Literature.
- Demonstrate the basic ability to analyze music: Given a Bach chorale (or similar), demonstrate the ability to analyze harmonic concepts.
- Identify historical and cultural events and persons within Western music: Demonstrate (through exam, portfolio or project) a general knowledge of composers, dates, time periods, and instrument histories from the Middle Ages through 21st Century.
- Sight sing and dictate melodic and harmonic progressions: Demonstrate through proficiency exam the ability to sight sing tonal melodies and intervals to the octave.
- Perform proficiently on the piano: Demonstrate the ability to play Major and minor scales, chords, arpeggios and Common Practice Era literature on the piano.

## Music Technology and Songwriting Fundamentals Certificate

The objective of this certificate is to provide students the knowledge and skills necessary to prepare for employment in entry-level positions in music technology, songwriting and composition environments. This certificate indicates that the student has acquired knowledge of different aspects of music technology including recording, amplification, installation, and organizational aspects of the industry.

### Major/Program Requirements

#### Required Courses:

MUSIC 190	Songwriting and Composition	3.00
MUSIC 195	Music Technology and Recording	4.00

## Music Technology, Composition and Songwriting Certificate

The objective of this certificate is to provide students the knowledge and skills necessary to prepare for employment in entry-level positions in music creation and production environments. This certificate indicates that the student has acquired knowledge of different aspects of music technology including recording, amplification, installation, and organizational aspects of the industry, as well as knowledge of music theory.

### Major/Program Requirements

#### Required Courses:

MUSIC 101	Music Theory I	4.00
MUSIC 102	Music Theory II	4.00
MUSIC 190	Songwriting and Composition	3.00
MUSIC 195	Music Technology and Recording	4.00

## Philosophy (PHIL)

**Department:** Social Science  
**Faculty Chair:** Julie McKee, M.A.  
**Faculty:** Jeff Cervantez, Ph.D.

### Associate in Arts in Philosophy for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Philosophy at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Philosophy or a related field of study.

### Major/Program Requirements

#### Required Courses:

<b>PHIL 101</b>	<b>Introduction to Philosophy</b>	<b>3.00</b>
	OR	
PHIL 101H	Introduction to Philosophy-Honors	3.00
<b>PHIL 103</b>	<b>Introduction to Logic: Argument and Evidence</b>	<b>3.00</b>
<b>PHIL 105</b>	<b>Introduction to Ethics: Moral Values in Today's Society</b>	<b>3.00</b>
	OR	
PHIL 105H	Introduction to Ethics: Moral Values in	3.00

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Today's Society-Honors

<b>RELIG 101</b>	<b>Introduction to World Religions</b>	<b>3.00</b>
	OR	
RELIG 101H	Introduction to World Religions-Honors	3.00
RELIG 113	Introduction to Eastern Religions	3.00
<b>Students must complete three (3) additional units from the following courses:</b>		
ANTHRO 110	Tribal and Ethnic Religions	3.00
	OR	
<b>HIST 135</b>	<b>Religion in America</b>	<b>3.00</b>
	OR	
HUM 101	The Humanities I: Prehistoric to Medieval	3.00
	OR	
HUM 102	The Humanities II: Renaissance to Post Modern	3.00
	OR	
<b>RELIG 100</b>	<b>Introduction to Religious Studies</b>	<b>3.00</b>
	OR	
RELIG 100H	Introduction to Religious Studies-Honors	3.00
	OR	
RELIG 110	Tribal and Ethnic Religions	3.00
	OR	
RELIG 120	Introduction to Islam	3.00
	OR	
<b>RELIG 135</b>	<b>Religion in America</b>	<b>3.00</b>
	OR	
RELIG 175	Literature and Religion of the Bible	3.00
	OR	
RELIG 176	Jesus and His Interpreters	3.00

Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

### Philosophy - Associate of Arts Degree

### Major/Program Requirements

#### Required Courses:

<b>PHIL 101</b>	<b>Introduction to Philosophy</b>	<b>3.00</b>
	OR	
PHIL 101H	Introduction to Philosophy-Honors	3.00
<b>PHIL 105</b>	<b>Introduction to Ethics: Moral Values in Today's Society</b>	<b>3.00</b>
PHIL 105H	Introduction to Ethics: Moral Values in Today's Society-Honors	3.00

#### Students must complete at least six (6) units from the following courses:

HIST 170	World Civilizations (3500 BCE-1500 CE)	3.00
	OR	
HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00

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HIST 171	World Civilizations (1500 CE to the Present) OR	3.00
HIST 171H	World Civilizations (1500 CE to the Present) - Honors	3.00
HUM 101	The Humanities I: Prehistoric to Medieval	3.00
HUM 102	The Humanities II: Renaissance to Post Modern	3.00

**Students must complete at least six (6) additional units from the following courses:**

<b>PHIL 103</b>	<b>Introduction to Logic: Argument and Evidence</b>	<b>3.00</b>
<b>RELIG 100</b>	<b>Introduction to Religious Studies</b> OR	<b>3.00</b>
RELIG 100H	Introduction to Religious Studies-Honors	3.00
<b>RELIG 101</b>	<b>Introduction to World Religions</b> OR	<b>3.00</b>
RELIG 101H	Introduction to World Religions-Honors	3.00
RELIG 110	Tribal and Ethnic Religions OR	3.00
ANTHRO 110	Tribal and Ethnic Religions	3.00
RELIG 113	Introduction to Eastern Religions	3.00
RELIG 176	Jesus and His Interpreters	3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

**A student receiving a degree in this field will be able to:**

- Differentiate and outline the relationship between the major fields and subfields of philosophy
- Describe key terms within philosophy
- Discuss and contrast three major philosophical schools
- When given a transcript of a hypothetical debate on an ethical issue, identify, discuss, explain and analyze philosophical assumptions and inconsistencies

## Physics (PHYSIC)

**Department:** Physical & Behavioral Sciences

**Faculty Chair:** Sam Truong, M.D.

**Faculty:** Matthew Adams, Ph.D.

### Associate in Science in Physics for Transfer (AS-T) Degree

The Associate in Science-Transfer (AS-T) degree in Physics at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in physics, astronomy, astrophysics or a related field of study.

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## Major/Program Requirements

### Required Courses:

PHYSIC 250	College Physics I	4.00
PHYSIC 251	College Physics II	4.00
PHYSIC 252	College Physics III	4.00
MATH 250	Single Variable Calculus I	4.00
MATH 251	Single Variable Calculus II	4.00
MATH 252	Multivariable Calculus	5.00

PHYSIC 252: Students may substitute PHYSIC 200 or PHYSIC 201 in lieu of PHYSIC 250 PHYSIC 251 PHYSIC 252. See a counselor for details

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

## Physics - Associate of Science Degree

### Major/Program Requirements

#### Required Courses:

PHYSIC 250	College Physics I	4.00
PHYSIC 251	College Physics II	4.00
PHYSIC 252	College Physics III	4.00
CHEM 150	General Chemistry I OR	5.00
CHEM 150H	General Chemistry I-Honors	5.00
CHEM 151	General Chemistry II OR	5.00
CHEM 151H	General Chemistry II-Honors	5.00
MATH 250	Single Variable Calculus I	4.00
MATH 251	Single Variable Calculus II	4.00
MATH 252	Multivariable Calculus	5.00

PHYSIC 252: Students may substitute PHYSIC 200 OR PHYSIC 201 in lieu of PHYSIC 250 PHYSIC 251 PHYSIC 252. See a counselor for details.

#### Recommended Courses:

MATH 266	Introduction to Ordinary Differential Equations	4.00
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Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

**A student receiving a degree in this field will be able to:**

- Demonstrate general knowledge of the scientific concepts as appropriate for courses in physics
- Display critical thinking skills by applying their general knowledge of the scientific concepts in courses in physics

- Establish critical thinking skills by solving mathematical problems as appropriate for courses in physics
- Exhibit basic laboratory skills and write a well-organized and information lab report as appropriate for courses in physics

## Political Science (POLIT)

**Department:** Social Science  
**Faculty Chair:** Julie McKee, M.A.  
**Faculty:** Steven Hellerman, M.A.

### Associate in Arts in Political Science for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Political Science at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Political Science or a related field of study.

#### Major/Program Requirements

##### Required Courses:

POLIT 100	American Politics	3.00
	OR	
POLIT 100H	American Politics-Honors	3.00

##### Students must complete at least nine (9) units from the following courses:

POLIT 104	Introduction to Comparative Politics	3.00
POLIT 106	Introduction to World Politics	3.00
POLIT 110	Introduction to Political Theory	3.00
MATH 110	Introduction to Probability and Statistics	4.00
	OR	
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00

##### Students must complete at least six (6) additional units from the following courses:

POLIT 102	California Politics and Culture	3.00
MATH 110	Introduction to Probability and Statistics	4.00
	OR	
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00
<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
	OR	
ANTHRO 102H	Cultural Anthropology-Honors	3.00
<b>ECON 100</b>	<b>Introduction to Economics</b>	<b>3.00</b>
<b>ECON 200</b>	<b>Principles of Macroeconomics</b>	<b>3.00</b>
	OR	
ECON 200H	Principles of Macroeconomics-Honors	3.00
<b>ECON 201</b>	<b>Principles of Microeconomics</b>	<b>3.00</b>
	OR	
ECON 201H	Principles of Microeconomics-Honors	3.00

GEOG 120	World Regional Geography	3.00
<b>HIST 100</b>	<b>History of the United States to 1877</b>	<b>3.00</b>
	OR	
HIST 100H	History of the United States to 1877- Honors	3.00
<b>HIST 101</b>	<b>History of the United States 1865 to Present</b>	<b>3.00</b>
	OR	
HIST 101H	History of the United States 1865 to Present-Honors	3.00
HIST 170	World Civilizations (3500 BCE-1500 CE)	3.00
	OR	
HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00
HIST 171	World Civilizations (1500 CE to the Present)	3.00
	OR	
HIST 171H	World Civilizations (1500 CE to the Present) - Honors	3.00
<b>PSYCH 100</b>	<b>General Psychology</b>	<b>3.00</b>
	OR	
PSYCH 100H	General Psychology- Honors	3.00
<b>SOC 100</b>	<b>Introduction to Sociology</b>	<b>3.00</b>
	OR	
SOC 100H	Introduction to Sociology-Honors	3.00

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

#### A student receiving a degree in this field will be able to:

- Define "politics" and its influence on individuals within society and society as a whole, demonstrating awareness of the context or opportunities for individual or group participation and efficacy in politics
- Recognize, describe and analyze the significant and usually direct influence of social, economic and cultural factors on political behavior and beliefs
- Define and distinguish between human rights, civil liberties and civil rights
- Identify and employ the pertinent vocabulary of political discourse and political science
- Recognize, describe and analyze liberal democracy in comparison to non-democratic forms of government
- Recognize and distinguish between the various forms of democracy, as well as between different types of non-democratic governments, movements and ideologies
- Identify and describe the major political institutions found in both the United States and other nations in the world

## Political Science - Associate of Arts Degree

### Major/Program Requirements

#### Required Courses:

POLIT 100	American Politics	3.00
	OR	
POLIT 100H	American Politics-Honors	3.00

#### Students must complete at least six (6) units from the following list:

POLIT 102	California Politics and Culture	3.00
POLIT 104	Introduction to Comparative Politics	3.00
POLIT 106	Introduction to World Politics	3.00
POLIT 110	Introduction to Political Theory	3.00

#### Students must complete at least six (6) additional units from the following list:

<b>HIST 100</b>	<b>History of the United States to 1877</b>	<b>3.00</b>
	OR	
HIST 100H	History of the United States to 1877- Honors	3.00
<b>HIST 101</b>	<b>History of the United States 1865 to Present</b>	<b>3.00</b>
	OR	
HIST 101H	History of the United States 1865 to Present-Honors	3.00
HIST 170	World Civilizations (3500 BCE-1500 CE)	3.00
	OR	
HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00
HIST 171	World Civilizations (1500 CE to the Present)	3.00
	OR	
HIST 171H	World Civilizations (1500 CE to the Present) - Honors	3.00

#### Students must complete at least three (3) additional units from the following list:

<b>ECON 100</b>	<b>Introduction to Economics</b>	<b>3.00</b>
<b>ECON 200</b>	<b>Principles of Macroeconomics</b>	<b>3.00</b>
	OR	
ECON 200H	Principles of Macroeconomics-Honors	3.00
<b>ECON 201</b>	<b>Principles of Microeconomics</b>	<b>3.00</b>
	OR	
ECON 201H	Principles of Microeconomics-Honors	3.00

#### Recommended Courses

It is recommended that students complete their general education requirements in physical and biological sciences and mathematics by taking the following courses:

GEOG 110	Physical Geography	3.00
	OR	
GEOG 110H	Physical Geography-Honors	3.00
GEOG 111	Physical Geography Laboratory	1.00

	OR	
GEOG 111H	Physical Geography Laboratory-Honors	1.00
ANTHRO 106	Biological Anthropology	3.00
	OR	
ANTHRO 106H	Biological Anthropology-Honors	3.00
MATH 110	Introduction to Probability and Statistics	4.00
	OR	
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Psychology (PSYCH)

**Department:** Human Development

**Faculty Chair:** Meridyth McLaren, M.S.

**Faculty:** T.L. Brink, Ph.D., Diane Pfahler, Ph.D., Gary Williams, Ph.D.

### Associate in Arts in Psychology for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Psychology at Crafton Hills College is designed to meet the needs of students transferring to a California State University or University of California who intend to major in Psychology or a related field of study.

### Major/Program Requirements

#### Required Courses:

<b>PSYCH 100</b>	<b>General Psychology</b>	<b>3.00</b>
	OR	
PSYCH 100H	General Psychology- Honors	3.00
<b>PSYCH 101</b>	<b>Research Methods</b>	<b>3.00</b>
MATH 110	Introduction to Probability and Statistics	4.00
	OR	
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00
<b>PSYCH 111</b>	<b>Developmental Psychology: Lifespan</b>	<b>3.00</b>
BIOL 100	General Biology	4.00

#### Students must complete at least three (3) units from the following courses:

<b>PSYCH 102</b>	<b>Personal and Social Adjustment</b>	<b>3.00</b>
<b>PSYCH 103</b>	<b>Theories of Personality</b>	<b>3.00</b>
<b>PSYCH 110</b>	<b>Abnormal Psychology</b>	<b>3.00</b>
<b>PSYCH 118</b>	<b>Human Sexual Behavior</b>	<b>3.00</b>

Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Psychology - Associate of Arts Degree

Psychology is one of the most popular majors because it is so useful in research, counseling, human services, marketing, management, emergency services, and law. At Crafton Hills College, this major is supported by a very active student club.

### Major/Program Requirements

#### Required Courses:

<b>PSYCH 100</b>	<b>General Psychology</b>	<b>3.00</b>
	OR	
PSYCH 100H	General Psychology- Honors	3.00
<b>PSYCH 101</b>	<b>Research Methods</b>	<b>3.00</b>
MATH 110	Introduction to Probability and Statistics	4.00
	OR	
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00
<b>PSYCH 111</b>	<b>Developmental Psychology: Lifespan</b>	<b>3.00</b>
BIOL 100	General Biology	4.00

*Students must complete at least six (6) additional units from the following courses:*

<b>PSYCH 102</b>	<b>Personal and Social Adjustment</b>	<b>3.00</b>
<b>PSYCH 103</b>	<b>Theories of Personality</b>	<b>3.00</b>
<b>PSYCH 110</b>	<b>Abnormal Psychology</b>	<b>3.00</b>
<b>PSYCH 118</b>	<b>Human Sexual Behavior</b>	<b>3.00</b>

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Radiologic Technology (RADIOL)

**Department:** Allied Health Services  
**Faculty Chair:** Amber Contreras, B.A.

### Radiologic Technology - Associate of Science Degree

Radiologic Technology is a fully accredited, hospital-based program sponsored by Arrowhead Regional Medical Center (ARMC). The program is affiliated with Crafton Hills College and accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

NOTE: Prior to starting this degree the student must show proof of a clear criminal background check.

### Major/Program Requirements

#### Required Courses:

RADIOL 100	Introduction to Radiologic Technology	1.50
RADIOL 103	Radiographic Positioning I	1.00

RADIOL 104	Radiologic Physics I	1.50
RADIOL 105	Radiographic Anatomy/ Physiology I	1.00
RADIOL 106	Radiographic Positioning Lab I	.50
RADIOL 107	Basic Radiologic Medical Techniques	1.50
RADIOL 108	Radiation Protection I	1.25
RADIOL 109	Radiologic Physics II	1.25
RADIOL 110	Radiographic Exposure I	1.00
RADIOL 111	Radiographic Image Critique I	1.00
RADIOL 112	Radiographic Positioning II	1.25
RADIOL 113	Radiographic Anatomy/Physiology II	1.25
RADIOL 114	Radiographic Positioning Lab II	.50
RADIOL 115	Radiographic Clinic I	10.25
RADIOL 116	Radiographic Exposure II	1.00
RADIOL 117	Radiographic Clinic II	13.75
RADIOL 200	Radiation Protection II	1.50
RADIOL 202	Radiographic Image Critique II	1.00
RADIOL 203	Radiographic Positioning III	1.25
RADIOL 204	Radiographic Anatomy/Physiology III	1.25
RADIOL 205	Radiographic Positioning Lab III	.50
RADIOL 215	Radiography Registry Review and Testing I	3.00
RADIOL 207	Radiographic Fluoroscopic Imaging	1.50
RADIOL 208	Radiography Registry Review and Testing II	3.00
RADIOL 209	Radiographic Pathology	1.00
RADIOL 210	Radiographic Positioning IV	1.25
RADIOL 211	Radiographic Anatomy/Physiology IV	1.25
RADIOL 212	Special Procedures in Radiology	1.25
RADIOL 213	Radiographic Clinic III	12.00
RADIOL 214	Radiographic Clinic IV	12.50

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

### Radiologic Technology Certificate

NOTE: Prior to starting this program the student must show proof of a clear criminal background check.

The objective of this certificate is to prepare students to be competent practitioners in the field of radiography. Completion of the certificate will prepare the student to be eligible for the state and national board examinations and for entry-level employment in radiography. Radiologic Technology is an accredited, hospital-based program sponsored by Arrowhead Regional Medical Center (ARMC). The program is affiliated with Crafton Hills College and accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Program applications and transcripts must be filed at ARMC School of Radiologic Technology by April 1st. Application packets are available from October through February of each year. Contact the Program Director at ARMC at 909.580.3540 for information on the program and application materials. Visit the website [www.arrowheadmedcenter.org](http://www.arrowheadmedcenter.org). In 2015 all students will require an Associate degree in order to receive a certificate of completion from the Radiologic Technology program.

**Admission:** The Admissions Committee selects students on the basis of their college grades, satisfactory completion of prerequisite courses, and a personal interview. Interviews are granted to thirty applicants who have completed all prerequisite courses with a minimum 2.5 GPA and have submitted a complete application package with the non-refundable fee. The Admissions Committee selects eight students and four alternates.

**MINIMUM QUALIFICATIONS:** To be considered for a personal interview, the applicant must:

Submit a completed application package and fee; provide a copy of their high school diploma or GED; successfully complete the college prerequisites listed below plus completion of GE requirements for an AA or AS degree.

### Major/Program Requirements

#### Minimum Qualifications:

To be considered for a personal interview the applicants must: submit a completed application package and fee; provide a copy of their high school diploma or GED; successfully complete the college prerequisites listed below:

#### Prerequisites:

Students may substitute equivalent or advanced level courses for the following prerequisite courses:

AH 090	Survey of Radiologic Technology	1.50
<b>AH 101</b>	<b>Medical Terminology</b>	<b>3.00</b>
ANAT 101	Essentials of Human Anatomy and Physiology	4.00
ENGL 101	Freshman Composition	4.00
CIS 101	Introduction to Computer and Information Technology	3.00
MATH 095	Intermediate Algebra	4.00

#### Required First Semester Courses

RADIOL 100	Introduction to Radiologic Technology	1.50
RADIOL 103	Radiographic Positioning I	1.00
RADIOL 104	Radiologic Physics I	1.50
RADIOL 105	Radiographic Anatomy/ Physiology I	1.00
RADIOL 106	Radiographic Positioning Lab I	.50
RADIOL 107	Basic Radiologic Medical Techniques	1.50
RADIOL 110	Radiographic Exposure I	1.00
RADIOL 115	Radiographic Clinic I	10.25

#### Required Second Semester Courses

RADIOL 108	Radiation Protection I	1.25
RADIOL 109	Radiologic Physics II	1.25
RADIOL 111	Radiographic Image Critique I	1.00
RADIOL 112	Radiographic Positioning II	1.25
RADIOL 113	Radiographic Anatomy/Physiology II	1.25
RADIOL 114	Radiographic Positioning Lab II	.50
RADIOL 116	Radiographic Exposure II	1.00
RADIOL 117	Radiographic Clinic II	13.75

#### Required Third Semester Courses

RADIOL 200	Radiation Protection II	1.50
RADIOL 202	Radiographic Image Critique II	1.00
RADIOL 203	Radiographic Positioning III	1.25
RADIOL 204	Radiographic Anatomy/Physiology III	1.25
RADIOL 205	Radiographic Positioning Lab III	.50

RADIOL 213	Radiographic Clinic III	12.00
RADIOL 215	Radiography Registry Review and Testing I	3.00
<b>Required Fourth Semester Courses</b>		
RADIOL 207	Radiographic Fluoroscopic Imaging	1.50
RADIOL 208	Radiography Registry Review and Testing II	3.00
RADIOL 209	Radiographic Pathology	1.00
RADIOL 210	Radiographic Positioning IV	1.25
RADIOL 211	Radiographic Anatomy/Physiology IV	1.25
RADIOL 212	Special Procedures in Radiology	1.25
RADIOL 214	Radiographic Clinic IV	12.50

#### A student receiving a certificate in this field will be able to:

- Successfully perform the entry level skills necessary for employment as a Radiologic Technologist
- Problem solve, critically think, and communicate at a level to meet the demands of employers
- Successfully complete requirements for certification and employment
- Display professional values and good ethical behaviors
- Continue personal and professional growth through out their lifetime

## Religious Studies (RELIG)

**Department:** Social Science

**Faculty Chair:** Julie McKee, M.A.

**Faculty:** T.L. Brink, Ph.D.

### Religious Studies - Associate of Arts Degree

#### Major/Program Requirements

##### Required Courses:

<b>RELIG 100</b>	<b>Introduction to Religious Studies</b>	<b>3.00</b>
	OR	
RELIG 100H	Introduction to Religious Studies-Honors	3.00
<b>RELIG 101</b>	<b>Introduction to World Religions</b>	<b>3.00</b>
	OR	
RELIG 101H	Introduction to World Religions-Honors	3.00

##### Students must complete at least six (6) units from the following courses:

HIST 170	World Civilizations (3500 BCE-1500 CE)	3.00
	OR	
HIST 170H	World Civilizations (3500 BCE-1500 CE) - Honors	3.00
HIST 171	World Civilizations (1500 CE to the Present)	3.00
	OR	
HIST 171H	World Civilizations (1500 CE to the Present) - Honors	3.00
HUM 101	The Humanities I: Prehistoric to Medieval	3.00
HUM 102	The Humanities II: Renaissance to Post Modern	3.00

##### Students must complete at least six (6) additional units from the following courses:



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RELIG 110	Tribal and Ethnic Religions OR	3.00
ANTHRO 110	Tribal and Ethnic Religions	3.00
RELIG 113	Introduction to Eastern Religions	3.00
<b>RELIG 135</b>	<b>Religion in America</b> OR	<b>3.00</b>
<b>HIST 135</b>	<b>Religion in America</b>	<b>3.00</b>
RELIG 175	Literature and Religion of the Bible OR	3.00
ENGL 175	Literature and Religion of the Bible	3.00
RELIG 176	Jesus and His Interpreters	3.00
<b>PHIL 101</b>	<b>Introduction to Philosophy</b> OR	<b>3.00</b>
PHIL 101H	Introduction to Philosophy-Honors	3.00
<b>PHIL 105</b>	<b>Introduction to Ethics: Moral Values in Today's Society</b> OR	<b>3.00</b>
PHIL 105H	Introduction to Ethics: Moral Values in Today's Society-Honors	3.00
ENGL 150	Classical Mythology	3.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Respiratory Care (RESP)

**Department:** Allied Health Services

**Faculty Chair:** Amber Contreras, B.A.

**Faculty:** Reynaldo Bell, B.S., Amber Contreras, B.A., Daniel Rojas, Michael Sheahan, M.A.

### Respiratory Care - Associate of Science Degree

Crafton Hills College offers the Respiratory Care Program. Admission is open to all students who have completed the prerequisite courses. Contact the program Office at (909) 389-3286 for more information about application materials and registration procedures. The Respiratory Care program at Crafton Hills College is accredited by the Commission on Accreditation for Respiratory Care ([www.coarc.com](http://www.coarc.com))

Contact: Commission on Accreditation for Respiratory Care

1248 Harwood Road

Bedford, TX 76021-4244

(817) 283-2835

Enrollment is limited to 35 students. Acceptance will be based on a point system. Students must complete RESP 050 (Introduction to

Respiratory Care), AH 101 (Medical Terminology), and ANAT 101 (Essentials of Human Anatomy and Physiology) and will have three points. Additional points can be earned with the completion of MICRO 102 (Introductory Microbiology), CHEM 101 (Introduction to Chemistry), or general education units required for an Associate of Science Degree and/or completion of an Associate degree or higher. Students with six points will be accepted first, then students with five points, etc., until all 35 seats are filled. It is definitely to a student's advantage to have all six points.

**NOTE: Prior to acceptance in this program, the student must show proof of a clear criminal background check.** All prospective students must submit a high school diploma or equivalent before acceptance into the program. If courses are being transferred from other colleges, sealed transcripts must be submitted to the Program Office and Admissions and Records.

### Major/Program Requirements

#### Preadmission Courses:

RESP 050	Introductory to Respiratory Care	2.00
<b>AH 101</b>	<b>Medical Terminology</b>	<b>3.00</b>
ANAT 101	Essentials of Human Anatomy and Physiology	4.00

#### Additional entrance points and required courses for the certificate and degree:

MICRO 102	Introductory Microbiology	4.00
<b>CHEM 101</b>	<b>Introduction to Chemistry</b>	<b>4.00</b>

General Education courses required for an Associate of Science Degree in Registry Eligible Respiratory Therapy. Please see a counselor for additional information.

#### Required Courses:

RESP 051	Cardiopulmonary Resuscitation: Basic Life Support Healthcare Provider	1.00
RESP 130	Fundamentals of Respiratory Care I	4.00
RESP 131	Fundamentals of Respiratory Care Skills I	11.00
RESP 132	Pulmonary Assessment	4.25
RESP 133	Respiratory Care Clinical Application I	1.25
RESP 134	Introduction to Pharmacology and Drug Therapy	4.25
RESP 135	Fundamentals of Respiratory Care II	4.00
RESP 136	Fundamentals of Respiratory Care Skills II	6.00
RESP 137	Respiratory Care Clinical Application II	7.50
RESP 138	Clinical Medicine I	1.50
RESP 139	Perinatal and Pediatric Respiratory Care	4.25
RESP 230	Advanced Theory of Respiratory Care I	2.25
RESP 231	Advanced Respiratory Care Skill Laboratory I	3.00
RESP 232	Physiologic Basis of Respiratory Disease I	2.50
RESP 233	Advanced Respiratory Care Clinical Application I	3.00
RESP 234	Advanced Theory of Respiratory Care II	4.00
RESP 235	Physiologic Basis of Respiratory Disease II	5.00
RESP 236	Advanced Respiratory Care Clinical Application II	7.50
RESP 237	Advanced Respiratory Care Skills Laboratory II	5.25
RESP 238	Entry Level and Advanced Practitioner Examinations: Review and Seminar	5.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

**A student receiving a degree in this field will be able to:**

- Demonstrate professional behaviors consistent with employer expectations as an advanced-level respiratory therapist
- Comprehend, apply and evaluate clinical information relevant to their roles as an advanced-level therapist
- Display the technical proficiency in all the skills necessary to fulfill their roles as an advanced-level therapist

**NOTES:**

- Prior to starting this program the student must show proof of a clear criminal background check
- Programs begins Fall semester only
- All courses in Respiratory Care must be completed within a five-year period
- A successful passing score on the NBRC secured Entry Level, Registry Written and the Clinical Simulation Self-Assessment Examinations is required for completion of the A.S. Degree in Respiratory Care. Failure to pass one of the exams will require reenrollment in RESP 238X4, Entry Level and Advanced Practitioner Examinations: Review and Seminar in the Fall Semester
- CHEM 101 and MICRO 102 are also required for the degree
- All courses applied to the A.S. Degree in Respiratory Care must be completed with a grade of "C" or higher.

## Sociology (SOC)

**Department:** Social Science  
**Faculty Chair:** Julie McKee, M.A.  
**Faculty:** Julie-McKee, M.A.

### Associate in Arts in Sociology for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Sociology at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Sociology or a related field of study.

#### Major/Program Requirements

**Required Courses:**

<b>SOC 100</b>	<b>Introduction to Sociology</b>	<b>3.00</b>
	OR	
SOC 100H	Introduction to Sociology-Honors	3.00
<b>SOC 105</b>	<b>Social Problems</b>	<b>3.00</b>
PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00
	OR	

MATH 110	Introduction to Probability and Statistics	4.00
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**Students must complete at least six (6) units from the following courses:**

SOC 130	Marriage, Family and Intimate Relationships	3.00
SOC 141	Minority Relations	3.00
SOC 145	Sex, Gender and Society	3.00

**Students must complete at least three (3) additional units from the following courses:**

<b>SOC 130</b>	<b>Marriage, Family and Intimate Relationships</b>	<b>3.00</b>
SOC 141	Minority Relations	3.00
SOC 145	Sex, Gender and Society	3.00
SOC 150	Gerontology	3.00

**ANTHRO 102 Cultural Anthropology 3.00**

	OR	
ANTHRO 102H	Cultural Anthropology-Honors	3.00

**PSYCH 100 General Psychology 3.00**

	OR	
PSYCH 100H	General Psychology- Honors	3.00

**POLIT 100 American Politics 3.00**

	OR	
POLIT 100H	American Politics-Honors	3.00

**ECON 100 Introduction to Economics 3.00**

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

### Sociology - Associate of Arts Degree

#### Major/Program Requirements

**Required Courses:**

<b>SOC 100</b>	<b>Introduction to Sociology</b>	<b>3.00</b>
	OR	
SOC 100H	Introduction to Sociology-Honors	3.00
<b>SOC 105</b>	<b>Social Problems</b>	<b>3.00</b>
SOC 141	Minority Relations	3.00

**Students must complete at least six (6) units from the following courses:**

<b>ANTHRO 102</b>	<b>Cultural Anthropology</b>	<b>3.00</b>
	OR	
ANTHRO 102H	Cultural Anthropology-Honors	3.00
GEOG 102	Cultural Geography	3.00
	OR	
GEOG 102H	Cultural Geography-Honors	3.00
MATH 110	Introduction to Probability and Statistics	4.00
	OR	

PSYCH 120	Statistics for the Social and Behavioral Sciences	4.00
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<b>PSYCH 100</b>	<b>General Psychology</b>	<b>3.00</b>
	OR	

PSYCH 100H	General Psychology- Honors	3.00
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**Students must complete at least three (3) additional units from the courses listed above or the following courses:**

<b>SOC 130</b>	<b>Marriage, Family and Intimate Relationships</b>	<b>3.00</b>
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SOC 150	Gerontology	3.00
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Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Spanish (SPAN)

**Department:** Communication & Language

**Faculty Chair:** Breanna Andrews, M.A.

**Faculty:** Marina Kozanova, M.A., Jeff Schmidt, M.A.

### Associate in Arts in Spanish for Transfer (AA-T) Degree

The Associate in Arts-Transfer (AA-T) degree in Spanish at Crafton Hills College is designed to meet the needs of students transferring to California State University who intend to major in Spanish or a related field of study.

#### Major/Program Requirements

**Required Courses:**

SPAN 101	College Spanish I	5.00
SPAN 102	College Spanish II	5.00
SPAN 103	College Spanish III	5.00
SPAN 104	College Spanish IV	5.00

**Students must complete at least three (3) units from the following courses:**

ENGL 163	Chicano/Latino Literature	3.00
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Subtotal: 23.00

Substitution courses: If a student places out of a required course, the student will need to take additional units to compensate for the course. Substitution courses are only permitted for those students who have placed out of one or more of the following courses required for the major: Spanish 101, Spanish 102 and Spanish 103. Spanish 104 cannot be substituted.

Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

## Spanish - Associate of Arts Degree

### Major/Program Requirements

**Required Courses:**

SPAN 101	College Spanish I	5.00
SPAN 102	College Spanish II	5.00
SPAN 103	College Spanish III	5.00
SPAN 104	College Spanish IV	5.00

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).

**A student receiving a degree in this field will be able to:**

- Demonstrate language proficiency by writing and speaking Spanish at a beginning to intermediate level
- Interpret written and spoken messages in Spanish at a beginning to intermediate level
- Demonstrate appropriate knowledge of the Spanish-speaking world regarding social interactions, beliefs, values, arts, literature, music and geography
- Define the concept of culture, appreciate other cultures and interact with members of those cultures in relation to their own
- Apply their knowledge of Spanish language and culture beyond the classroom in interactions within multicultural communities and the world

## Theatre Arts (THART)

**Department:** Fine Arts

**Faculty Chair:** Mark McConnell, M.M

**Faculty:** Tom Bryant, M.F.A.

### Associate in Arts in Theatre Arts for Transfer (AA-T) Degree

An Associate in Arts-Transfer (AA-T) degree in Theatre Arts at Crafton Hills College is designed to meet the needs of students transferring to a California State University who intend to major in Theatre Arts or a related field of study.

#### Major/Program Requirements

**Required Courses:**

THART 100	Introduction to Theatre	3.00
	OR	
THART 100H	Introduction to Theatre-Honors	3.00
THART 108	World Drama I	3.00
	OR	
ENGL 108	World Drama I	3.00
THART 120	Beginning Acting	3.00
THART 124X2	Beginning Performance Workshop	3.00
	OR	

## CHC Degrees, Major Preparation | 60

THART 134X4 Technical Theatre Workshop 1.00

### THART 134X4: must be taken three times

**Students must complete at least nine (9) units from the following courses:**

THART 124X2 Beginning Performance Workshop 3.00

THART 134X4 Technical Theatre Workshop 1.00

THART 176 Fundamentals of Stagecraft I 3.00

THART 179 Fundamentals of Stagecraft II 3.00

THART 220 Intermediate Acting 3.00

THART 226 Play and Screenplay Analysis 3.00

OR

ENGL 226 Play and Screenplay Analysis 3.00

THART 124X2: if not taken above

THART 134X4: may be taken three times if not taken above

*Prospective transfer students should complete the general education and lower division requirements of the school to which they will be transferring (IGETC or CSUGE Breadth). See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).*

### A student receiving a degree in this field will be able to:

- Demonstrate the ability to read an excerpt of a play news copy or other text using proper voice and diction
- Analyze a play text and then use the psychophysical techniques of the Stanislavski system to internalize an appropriate imagined reality in order to create believable characters, realities and interplay on stage
- Demonstrate the ability to co-operate in a group situation with other students to collectively prepare, organize and produce work either as an actor, musician, dancer, performer, director, technician or designer
- Demonstrate the ability to be successfully complete a design process in set, light, sound and costume design, and to prepare, construct and set up technical elements in collaboration with others in the technical production of a show
- Recognize and categorize different types of plays and theatrical styles according to historical period, genre and dramatic effect and how they are related to the social, political, or cultural issues in a given historical period, country, cultural context or era
- Analyze a play and describe how the basic elements of plot, character, theme and language are specifically handled to produce a particular dramatic style or dramatic effect and employ critical thinking skills to analyze dramatic literature and cultural context during class discussions and to prepare and produce written papers that demonstrate analytical skill

## Theatre Arts - Associate of Arts Degree

### The Theatre Arts program is designed to provide:

1. Preparation for transfer to a four year college theatre program with a course of study that results in a BA or BFA degree
2. An AA degree representing equivalent of the first two years of a course of study in a four year college theatre program. The normal course of study in four year programs features a variety of classes in a track program format that develops the different aspects of

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theatre performance and technical skills such as acting, voice and diction, dance, production experience, stage craft, introduction to theatre, theatre history, directing, audition technique and text analysis.

3. The program is also designed to provide courses such as Introduction to Theatre that fulfill general education requirements and courses of popular interest for non theatre major students such as dance and acting.

## Major/Program Requirements

### Required Courses:

THART 100 Introduction to Theatre 3.00  
OR

THART 100H Introduction to Theatre-Honors 3.00

THART 120 Beginning Acting 3.00

## **STUDENTS MUST CHOOSE ONE AREA OF EMPHASIS FROM THE FOLLOWING TWO (2) EMPHASIS OPTIONS:**

### Emphasis in Performance:

THART 110 Voice and Diction 3.00  
OR

COMMST 110 Voice and Diction 3.00

THART 220 Intermediate Acting 3.00

THART 221 Advanced Acting 3.00

THART 124X2 Beginning Performance Workshop 3.00

THART 134X4 Technical Theatre Workshop 1.00

THART 140X2 Intermediate Performance Workshop 3.00

NOTE: THART 124X2 and THART 134X4 must be taken two times.

NOTE: Students may substitute THART 140X2 in lieu of THART 124X2. See a counselor for details.

### Recommended Courses:

THART 140X2 Intermediate Performance Workshop 3.00

THART 145 Advanced Theatre Practicum I 3.00

THART 245 Advanced Theatre Practicum II 3.00

THART 226 Play and Screenplay Analysis 3.00  
OR

ENGL 226 Play and Screenplay Analysis 3.00

### Emphasis in Theatre Technology:

THART 176 Fundamentals of Stagecraft I 3.00

THART 179 Fundamentals of Stagecraft II 3.00

THART 134X4 Technical Theatre Workshop 1.00

THART 145 Advanced Theatre Practicum I 3.00

THART 245 Advanced Theatre Practicum II 3.00

THART 134X4: must be taken two times

## CHC Degrees, Major Preparation | 61

Lower division requirements for students interested in transferring to a four-year institution in this field may differ from associate degree requirements. Prospective transfer students should complete the general education and lower division requirements of the school to

which they will be transferring. See a counselor for details. Information is also available at [www.assist.org](http://www.assist.org).