General Information
This section of the College catalog contains general information for students planning to transfer to any of the University of California (UC) campuses or to any of the campuses of the California State University (CSU).

Listed in this section of the catalog (in the order given below) are three categories of information: (1) Courses which satisfy the general education requirements for all campuses of the California State University; (2) Courses from City College of San Francisco acceptable at all campuses of the University of California for elective credit; (3) Courses from City College that satisfy the Intersegmental General Education Transfer Curriculum (IGETC);

Transfer Information
Courses numbered from 1 through 799 are university courses except for some listed as “Credit, non-degree applicable” and a few others. With these exceptions, courses numbered 1 through 799 are considered to be baccalaureate in nature and carry transfer credit. However, according to their transfer policies, some universities and four-year colleges may not grant transfer credit for every City College baccalaureate course.

Courses named with one of the letters from A through Z are foundational courses: for example, Chemistry C. Credit earned in these courses is not accepted for graduation from City College and is generally not transferable to a university or a four-year college.

The California State University grants transfer credit for all courses numbered 1 through 799, except for some courses in Biotechnology, English, English as a Second Language, Engineering Technology and Mathematics. Those courses which are transferable to the California State University for elective credit are labeled with “CSU” following the description of the course content in its announcement.

A complete list of courses for which the University of California accepts credit is given in the Transfer section of this catalog. In addition, each course that is acceptable for elective credit at all campuses of the University of California has “UC” following the description of the course content in its announcement.

Courses designated as “UC upon review” are independent studies or variable topics courses which may earn UC elective credit, but which must be evaluated by the UC campus at the time the student is admitted for transfer before credit can be granted.

Students are advised to see their counselors or advisors for further information beyond that which is given on the following pages regarding transferring to a four-year college or university.

Articulation Agreements
Articulation agreements which list detailed information concerning specific majors and describe course transferability from City College of San Francisco CSU and UC campuses are available on ASSIST, www.assist.org. Articulation agreements with private or out-of-state colleges may be found on the City College Articulation website: www.ccsf.edu/artic.

Associate Degrees for Transfer
City College of San Francisco also offers associate degrees for transfer primarily to the CSU. These include Associate in Arts (AA-T) or Associate in Science (AS-T) degrees. These degrees are designed to provide a clear pathway to a CSU major and baccalaureate degree. Students who are awarded an AA-T or AS-T degree are guaranteed admission with junior standing somewhere in the CSU system and given priority admission consideration to their local CSU campus or to a program that is deemed similar to their community college major. This priority does not guarantee admission to specific majors or campuses.

Students who have been awarded an AA-T or AS-T are able to complete their remaining requirements for the similar 120 quarter-unit baccalaureate degree within 60 semester or 90 quarter units. For more information on the Associate Degrees for Transfer, see the Associate Degree Graduation Requirements section of this catalog. To find out which CSU campuses accept each degree, please go to http://www.adegreewithaguarantee.com/Degrees.aspx. Current and prospective CCSF students are encouraged to meet with a counselor to review their options for transfer and to develop an educational plan that best meets their goals and needs.

California State University (All Campuses)

Admission Application Dates
To ensure consideration for admission to the campus of first choice, students are reminded to file a CSU application during the appropriate filing period shown below:

**Term: Applications First Accepted**
- Summer Quarter: February 1 (preceding the summer term)
- Fall Semester/Quarter: October 1 (preceding the term)
- Winter Quarter: June 1 (preceding the term)
- Spring Semester/Quarter: August 1 (preceding the term)

Application for impacted programs and campuses must be filed during the initial application filing period. Otherwise, each campus accepts applications until capacities are reached. If you are applying after the initial filing period, consult the campus admissions office for current information.

Apply online, www.csumentor.edu.

Admission as a Transfer Student
A student may satisfy CSU admission requirements as an upper division transfer student by:

- Completing a minimum of 60 transferable semester units (CCSF courses numbered 1 through 799 except for some non-degree applicable Biotechnology, English, English as a Second Language, Engineering Technology, and Mathematics courses).
- Maintaining a grade point average of 2.00 or higher in all transferable units attempted.
- Satisfying a minimum of 30 units of General Education with grades of C or better including: A1 Oral Communication, A2 Written Communication, A3 Critical Thinking, B4 Quantitative Reasoning.

Supplementary Admissions Requirements. Some majors and campuses receive more applications during the initial filing period than can be accommodated and have higher admission standards. For detailed information regarding Impacted Undergraduate Majors and Campuses in the California State University, go to http://www.calstat.edu/AR/ImpactionInfo.shtm.

Transfer of Credit to the California State University (All Campuses)
The campuses of the California State University accept credit from City College of San Francisco as follows:

1. They accept as elective credit toward graduation the units earned in all City College courses numbered 1 through 799, except for BTEC 108A, ESL 12, 75, 85, 95, 122, 132, 142, 182; ENGL 12, 86, 88, 88B, ET 108A, and MATH 30, 35, 40, 43, 45, 46, 55, 60, 80S, 90S.
2. They do not accept credit earned in City College foundational courses. (These courses are named with only one letter—for example, Chemistry C.)
3. They accept transfer credit as indicated above, but do not accept more than 70 semester units of community college credit to be used to satisfy the unit requirements for the baccalaureate degree.
4. They accept partial or full certification of completion of the Lower Division General Education requirements for graduation from the California State University for courses completed at City College.
5. They do not necessarily accept credit that City College has
Upon completion of this coursework, a student will be able to:

- Communicate effectively in English as a Second Language (ESL)
- Take courses in Communication Studies (1A, 3, 4, 6, 12, 20)
- Choose one course from the following:
  - A1 Oral Communication:
    - Demonstrate clear and precise oral expression.
  - A2 Written Communication:
    - Read critically and write coherently.
- Develop critical thinking skills
- Demonstrate control over major conventions of English grammar and punctuation
- Apply critical thinking and rhetorical strategies

**American Institutions and United States History Requirement**

Upon completion of this coursework, a student will be able to:

- Analyze significant events from U.S. history
- Evaluate political institutions and processes
- Explain California's political processes

Candidates for a bachelor's degree must satisfy the requirement in American Institutions and United States History by completing one course from each of the following two groups:

**Group 1. (US-2&3) Political Science**
- Political Science 1
- American Studies 20

**Group 2. (US-1) Asian American Studies**
- History 1, 9, 12A, 12B, 17A, 17B, 41A, 41B, 45
- Labor and Community Studies 70A, 70B
- Latin American and Latino/a Studies 1

**General Education Requirements for the California State University (All Campuses) for 2019-20**

CSU GE-Breadth handouts and related information are available from a counselor; the Transfer Center; ASSIST, www.assist.org; or the CCSF articulation webpage, www.ccsf.edu/artic.

Requirements for the baccalaureate degree at the California State University include the completion of a minimum of 48 semester units in general education within a prescribed pattern, including 9 semester units of upper-division work. A maximum of 39 semester units may be certified by City College as having met the CSU lower division General Education requirements. The 39 semester unit pattern is distributed among five broad areas as noted below. City College will certify completion of each area according to the unit limits shown. Students who complete the entire pattern may also petition for the Certificate of Achievement in CSU General Education Breadth.

Students have the option to complete the Intersegmental General Education Transfer Curriculum (IGETC) in lieu of the 39 unit CSU general education pattern.

Due to catalog publication deadlines, the following is a list of CSU General Education courses from the 2019-20 academic year. Updated information is available from a counselor; the Transfer Center; ASSIST, www.assist.org; or the CCSF articulation webpage, www.ccsf.edu/artic.

**AREA A: Communication in the English language and critical thinking**

(9 certifiable semester units or 12-15 quarter units required with at least one course from each of A1, A2, and A3)

**A1 Oral Communication:**

Upon completion of this coursework, a student will be able to:

1. Demonstrate clear and precise oral expression.
2. Identity and use culturally competent communication practices.
3. Analyze how communication practices impact experiences.

*One course from the following:*

- Communication Studies 1A, 3, 4, 6, 12, 20
- English As Second Language 79

**A2 Written Communication:**

Upon completion of this coursework, a student will be able to:

1. Read critically to annotate, analyze, and evaluate primarily non-fiction, college-level texts.
2. Compose organized and coherent source-based essays that demonstrate critical thinking and rhetorical strategies.
3. Demonstrate control over major conventions of English grammar and punctuation.
4. Select and integrate reliable, credible, and scholarly sources to support essays, using a standardized citation format.

*Take the following course:*

- English 1A

**A3 Critical Thinking:**

Upon completion of this coursework, a student will be able to:

- Practice inductive and deductive reasoning in written or oral contexts.
- Integrate support for ideas into an argument structure.
- Identify formal and informal fallacies of language in thought.

*One course from the following:*

- Communication Studies 2, 3
- English 1B, 1C
- Philosophy 2, 4, 40

**AREA B: Physical Universe and its Life Forms**

(9 certifiable semester units or 12-15 quarter units required with at least one course each from B1, B2 [at least one to contain a laboratory component identified in B3] and B4)

**B1 Physical Science:**

Upon completion of this coursework, a student will be able to:

- Apply scientific inquiry and investigation of evidence to critically evaluate physical science arguments.
- Communicate scientific ideas and theories effectively.
- Apply scientific principles, theories, or models to explain the behavior of natural physical phenomena.
- Apply physical science knowledge and reasoning to human interaction with the natural world and issues impacting society.

*One course from the following:*

- Astronomy 1, 17, 18, 19
- Energy 3
- Geography 1
- Geology 10, 11, 30
- Oceanography 1
- Physical Science 11
- Physics 2A, 2B, 4A, 4B, 4C, 4D, 10, 20, 40, 41

**B2 Life Science:**

Upon completion of this coursework, a student will be able to:

- Apply scientific inquiry and investigation of evidence to critically evaluate biological science arguments.
- Communicate scientific ideas and theories effectively.
- Apply scientific principles, theories, or models to explain the behavior of natural biological phenomena.
- Apply biological science knowledge and reasoning to human interaction with the natural world and issues impacting society.

*One course from the following:*

- Anthropology 1
- Astronomy 4
- Biotechnology 4
- Environmental Monitoring 28
- Geography 31
- Psychology 1B
Upon completion of this coursework, a student will be able to:

**Laboratory Science**
1. Investigate natural phenomena through a variety of scientific inquiry techniques.
2. Analyze and evaluate data from the natural world.
3. Apply scientific principles, theories, or models to predict and explain the behavior of natural phenomena.

*One course from the following:*
- Anthropology 1L
- Astronomy 16
- Biology 9, 10, 11, 12, 14, 19, 31L, 32L, 51L, 100A, 100B, 106, 108, 111, 112, 118, 120
- Biotechnology 4
- Energy 3L
- Environmental Monitoring 28
- Geography 1L, 31L
- Geology 10L, 11L, 30L
- Oceanography 1L
- Physical Science 11L
- Physics 2AL, 2BL, 4AL, 4BL, 4CL, 4DL, 10L
- Sustainability 31L

**B4 Mathematics/Quantitative Reasoning:**
Upon completion of this coursework, a student will be able to:
1. Apply mathematical concepts through numerical, symbolic, graphical, and verbal methods to interpret quantitative information, solve problems, and communicate results.

*One course from the following:*
- Economics 5
- Engineering Technology 50
- Finance 136M
- Latin Amer & Latino/a Studies 5
- Mathematics 70, 75, 80, 90, 92, 95, 100A, 100B, 110A, 110B, 110C, 115, 120, 125, 130
- Philosophy 12A
- Psychology 5

**AREA C: Arts, Literature, Foreign Language and Philosophy**
(9 certifiable semester units or 12-15 quarter units with at least one course in the Arts and one course in the Humanities)

**C1 Arts:**
Upon completion of this coursework, a student will be able to:
1. Identify connections between the arts and cultural and social awareness.
2. Analyze the broader social/historical contexts of works of art.
3. Evaluate the creative expression of self and others.

*At least one course from the following:*
- African American Studies 55
- Architecture 31A, 31B, 32, 102, 134
- Asian Studies 11
- Cinema 18, 21, 23A, 23B
- Communication Studies 38
- Dance 30, 32, 100A
- Fashion Merchandising 55
- Interior Design 138
- Labor & Community Studies 104A
- Latin Amer & Latino/a Studies 14
- Lesbian, Gay, Bisexual & Trans 20, 55

**C2 Humanities:**
Upon completion of this coursework, a student will be able to:
1. Exhibit an understanding of the ways in which people in diverse cultures and eras have produced culturally significant works.
2. Communicate effectively the meanings and intentions of creative expression.
3. Use analytical techniques to assess the value of human creations in meaningful ways.
4. Demonstrate an understanding of the human condition through language, reasoning, or artistic creation.

*At least one course from the following:*
- African American Studies 30, 40, 60
- American Sign Language 2A
- American Studies 5
- Asian American Studies 6, 10, 30, 35
- Asian Studies 15, 30
- Cinema 19, 20A, 20B, 21, 22
- Classics 35
- Communication Studies 8
- English as a Second Language 188
- French 1, 1A, 1B, 2, 2A, 2B, 3, 3A, 3B, 4, 5, 10A, 10B, 10C, 10D, 10E, 11A, 11B, 41, 42
- German 1, 1A, 2, 2A, 2B, 3, 3A, 3B, 4A, 4B, 10A, 10B, 10C, 10D, 11A, 11B
- Humanities 7, 8, 11, 12, 20, 25, 41A, 41B, 48
- Interdisciplinary Studies 3, 4, 14, 27B, 29, 30, 31, 36, 37, 45, 46, 47
- Italian 1, 1A, 1B, 2, 2A, 2B, 3A, 3B, 4A, 4B, 10A, 10B, 10C, 10D, 11A, 11B, 15A, 15B
- Japanese 1, 1A, 1B, 2, 2A, 2B, 3, 3A, 3B, 4, 4A, 4B, 10A, 10B, 10C, 39
- Latin Amer & Latino/a Studies 1
- Lesbian, Gay, Bisexual & Trans 11, 12, 15, 18, 75
- Philippine Studies 30, 42
- Philosophy 2, 4, 25A, 25C
- Pilipino 1, 2, 10A, 10B, 10C, 39A, 39B
- Russian 1, 1A, 1B, 2, 2A, 2B, 3A, 3B, 4A, 10A, 10B, 10C, 15A, 15B, 16A, 16B, 21, 21A, 21B, 22A, 22B, 41
- Women's and Gender Studies 10
- World Languages and Cultures 100

**AREA D: Social Sciences**
Upon completion of this coursework, a student will be able to:
1. Exhibit an understanding of methods of inquiry used by the social and behavioral sciences.
2. Critically evaluate the ways people act, think and feel in response to their societies.
3. Demonstrate socio-cultural participation skills, ethical reasoning, and political awareness in order to be effective citizens in a diverse world.
Nine (9) certifiable semester units or 12-15 quarter units with courses to be selected from at least two disciplines from the following:

- Administration of Justice 57, 59, 65, 67
- African American Studies 30, 42, 60
- American Studies 5
- Anthropology 2, 3, 3C, 4, 8, 11, 12, 15, 20, 25
- Asian American Studies 8, 20, 22, 27, 30, 35, 40, 42
- Broadcast Electronic Media 101, 103, 104, 105
- Child Dev/Family Studies 53, 61, 67, 97
- Communication Studies 5
- Economics 1, 3, 6, 15, 20, 22, 25, 30
- Geography 3, 4, 7
- Health Education 10, 30, 52, 54, 56, 97, 110, 221, 231
- Interdisciplinary Studies 7, 17, 30, 31, 37, 45
- International Business 162
- Labor & Community Studies 15, 70A, 70B, 88, 96C, 114
- Latin Amer & Latino/a Studies 1, 9, 10, 11, 13, 15
- Lesbian, Gay, Bisexual & Transgender Studies 5, 9, 10, 21, 50
- Philipine Studies 20, 40
- Physical Education 13, 28
- Political Science 1, 2, 3, 4, 5, 12, 18, 22, 43, 45
- Psychology 1, 2, 3, 4, 10, 11, 21, 23, 24, 25, 26, 32, 40, 46
- Sociology 1, 2, 3, 21, 25, 35, 52
- Women’s and Gender Studies 25, 35, 54

**AREA E: Lifelong Understanding and Self-Development**

Upon completion of this coursework, a student will be able to:

1. Identify strategies for continual sociological and biological well-being.
2. PE/Dance Specific Outcome: Examine, summarize, and value the physical skills essential for mental and physical well being.

Three (3) certifiable semester units or 4-5 quarter units from the following:

**Career Development 60**

- Disabled Students Prog & Serv *20
- Emergency Medical Technician 14
- Health Education 10, 25, 27, 30, 33, 48, 52, 53, 54, 67, 97, 120
- Learning Assistance 50
- Lesbian, Gay, Bisexual & Trans 21, 24

- Psychology 9, 14, 15, 17, 21, 24, 26, 40, 46
- Sociology 35
- Women’s and Gender Studies 55
- *All DANC/PE, Physical Education activity credit combined limited to 1 unit

**University of California (All Campuses)**

**Admission Application Dates**

To ensure consideration for admission to the campus of first choice, students are reminded to file a UC application during the appropriate **Filing Period:**

- **University of California, Berkeley, and Merced**
  - Fall Semester: File November 1–30
  - Spring Semester: File July 1–31
- **UC Berkeley application is accepted for the fall only**

- **All Other University of California Campuses**
  - Fall Quarter: File November 1–30
  - Winter Quarter: File July 1–31
  - Spring Quarter: File October 1–31

For the fall term, all majors and programs are open to new students. Check with the specific campus Admissions Office if applying for other than the fall term.

Apply online, [www.universityofcalifornia.edu/apply](http://www.universityofcalifornia.edu/apply).

**Minimum U.C. Transfer Eligibility Requirements**

To be eligible for admission to UC as a transfer student, you must fulfill the following criteria:

1. Complete 60 semester units (90 quarter units) of transferable college credit with a grade point average of at least 2.4, and
2. Complete a course pattern requirement to include:
   - Two transferable college courses (3 semester units or 4–5 quarter units each) in English composition; and
   - One transferable college course (3 semester units or 4–5 quarter units) in Mathematical Concepts and Quantitative Reasoning; and
   - Four transferable college courses (3 semester units or 4–5 quarter units each) chosen from at least two of the following subject areas: the arts and humanities, the social and behavioral sciences, the physical and biological sciences.

The current admission requirements for nonresidents transfer applicants are the same as those for residents except that nonresidents must have a grade point average of 2.8 or higher in all transferable college course work.

In recent years, the number of applicants to many campuses and majors has greatly exceeded the spaces available. This increased competition means the University may no longer be able to guarantee admission to all eligible students. When a campus has to choose among qualified students, it applies standards that are more demanding than the minimum requirements. Using a process called comprehensive review, admissions officers look beyond the required course work and grades to evaluate applicants’ academic achievements in light of the opportunities available to them and the capacity each student demonstrates to contribute to the intellectual life of the campus.

**Courses from City College of San Francisco**

**Acceptable at All Campuses of the University of California for 2019-20**

1. The University of California (all campuses) accepts as elective credit toward graduation the units earned in the courses listed below, subject to the limitations and exclusions noted.

2. The following is a complete list of City College courses for which the University of California accepts credit, subject to the
limitations listed. If a City College course does not appear on this list, the course is not accepted for credit by the University of California.

The following information is based upon information received from the University at the time of the publication of this catalog. The University may decide after the publication of this catalog to limit or not to accept units earned in some City College courses. In addition, due to publication deadlines, the list of courses is from the 2019-20 academic year. Further information, when it is received from the University, will be made available to students online, www.assist.org.

City College courses which are accepted for credit by all campuses of the University of California:

Academic Achievement Personal Success 103
Administration of Justice 52, 57, 59, 65, 67
African American Studies 30, 40, 42, 55, 60
American Sign Language 1A, 1B, 2A
American Studies 5
Anthropology 1, 1L, 2, *3, *3C, 4, 8, 11, 12, 15, 20, 25
*3 and 3C combined: maximum credit, one course
Architecture 22A, 29A, 29B, +31A, +31B, 32, 100, 101, 102, 103, +134, 218, +31A, 31B and 134 combined: maximum credit, two courses


Asian American Studies 6, 8, 10, 20, 22, 27, 30, 35, 40, 42, *65

*Independent Study course — to be reviewed for credit by UC campus upon transfer

Asian Studies 11, 15, 30

Astronomy *1, 4, 16, *17, *18, *19
*1, 17, 18, 19 combined: maximum credit allowed, 2 courses

BIOLICAL SCIENCES:

Anthropology 1


*No credit for 11 if taken after Biology 100A, 100B
++No credit for 10 if taken after Biology 11, 100A, 100B, or Biology 111 (formerly: Physiology 1) or Biology 112 (formerly: Physiology 12)

^No credit for Biology 106 (formerly: Anatomy 14) if taken after Biology 108 (formerly: Anatomy 25) or Biology 111 (formerly: Physiology 1) or Biology 112 (formerly: Physiology 12); Biology 106 or Biology 108 combined with Biology 11 or Biology 112: Maximum credit, 2 courses

#Same as GEOG 31, SUST 31

*Same as GEOG 31L, SUST 31L

Biotechnology (see Engineering & Technology)

Broadcast Electronic Media Arts 100, 101, 103, 104, 105

BUSINESS:

Accounting 1, 2
Business Law 1, 2
General Business 119, 120
Management 235
Microcomputer Applications for Business +60, +62, 160
+CNIT 100, CS 100M, MABS 60, and MABS 62 combined: maximum credit, one course
Paralegal Studies 10

Career Development 60

Chemistry 32, #40, *85, ^101A, 101B, *103A, #110, **208A, **208B, **212A, **212B

*101A, 103A combined: maximum credit allowed, one course.

#40, 110 combined: maximum credit allowed, one course.

No credit for 40, 110 if taken after 101A or 103A

*Variable Topic Course - to be reviewed for credit by UC Campus upon transfer.

**208A-208B and 212A-212B combined: maximum credit allowed, one course; no credit for 212AB if taken after 208AB


**20A, 20B, and LGBT 11 combined: maximum credit allowed, two courses

Child Development 53, 67, 75, 150

Cinema 18, 19, **20A, **20B, 21, 22, 23A, 23B, **24, **124A, **124B, 24, 124A and 124B combined: maximum credit allowed, two courses

Communication Studies 1A, 2, 3, 4, 5, 7, 8, 20

Computer Aided Drafting (see Engineering & Technology)

Computer Networking & Information Technology +100, +100M, 133M +CNIT 100, +CNIT 100M, CS 101, MABS 60 and 62 combined: maximum credit, one course

Computer Science 110A, 110B, 110C, 111C, 131B, #160A, #160B, 177, *199, 211E, 211S, 231, 270 +CNIT 100, CNIT 100M, MABS 60 and 62 combined: maximum credit, one course

#160A and 160B must both be taken in order to receive transfer credit

*Independent Study course — to be reviewed for credit by UC campus upon transfer

Culinary Arts and Hospitality Studies 247


*Any or all of these courses, HLTH 50 and MUS 47, (*)PE and (*)P A courses combined: maximum credit, 4 units

Design *101, 105, *110, **150

Same as PHOT 100, VMD 101

*Same as VMD 112

**Same as VMD 118

Disabled Students Program and Services *20

*Any or all of these courses, HLTH 50, MUS 47, (*)PE and PE A courses combined: maximum credit, 4 units

Drama (see Theatre Arts)

Economics 1, 3, *5, 6, 15, 20, 25, 30

*5 combined with LALS 5, MATH 80 and PSYC 5: maximum credit allowed, one course

Emergency Medical Technician 14

Energy (see Engineering & Technology)

Engineering (see Engineering & Technology)

ENGINEERING AND TECHNOLOGY:

Biotechnology 4, 5

Computer Aided Drafting 181

Energy 3, 3L

Engineering 1A, 10A, 10B, 20, 20L, 24, 36, 37, 38, 45

Environmental Monitoring, Sampling and Assessment 28

Sustainability 31, 31L

#Same as BIO 31, GEOG 31

*Same as BIO 31L, GEOG 31L

Physical Education 1A, 1B, 2A

Physics 1, 2, 3, 4, 5, 6, 7, 8, 20

*1AB is equivalent to 1: maximum credit, 6 units;

*2AB is equivalent to 2: maximum credit, 6 units;

*3AB is equivalent to 3: 3, 3AB, and 31AB combined: maximum credit, 6 units;

*4AB is equivalent to 4: maximum credit, 6 units;

*5 combined with LALS 5, MATH 80 and PSYC 5: maximum credit allowed, one course

English as a Second Language 184, 186, 188
*Any or all of these courses combined: maximum credit allowed, 8 units

Environmental Monitoring, Sampling and Assessment (see Engineering & Technology)

Ethnic Studies (see African American, Asian American, Chinese, Latin American and Philippine Studies)

Fashion 22, 28

French *1, *1A, *1B, +2, +2A, +2B, #3, #3A, #3B, 4, 11A, 11B, **20, 22, 23, 41, 42
*1AB is equivalent to 1: maximum credit, 6 units;
+2AB is equivalent to 2: maximum credit, 6 units
#3AB is equivalent to 3: maximum credit, 6 units
**Independent Study course — to be reviewed for credit by UC campus upon transfer

Genetics (See Biological Sciences)

Geography 1, 1L, 3, 4, 7, #31, *31L, 41A, 110
*Same as BIO 31, SUST 31
*Same as BIO 31L, SUST 31L

Geology 10, 10L, 11, 11L, 30, 30L.

German *1, *1A, *1B, +2, +2A, +2B, #3, #3A, #3B, 4A, 4B, 11A, 11B
*1AB is equivalent to 1: maximum credit, 6 units;
+2AB is equivalent to 2: maximum credit, 6 units;
#3AB is equivalent to 3: maximum credit, 6 units;

*Any or all of these courses, and PE 14 combined maximum credit allowed, one course

+Independent Study/Variable Topics courses — to be reviewed for credit by UC campus upon transfer

*11, 12, 41A and 41B combined: maximum credit allowed, two courses

Independent Study
*Please note that the transfer credit for courses of this kind is contingent upon an evaluation of the course outline by a University of California campus.

Interdisciplinary Studies 3, 4, 7, 14, 17, 27B, +27C, +28(A–F), 29, 30, 31, 36, 37, 45, 46, 47, *50
+Independent Studies/Variable Topics course—reviewed by UC campus upon transfer

^Same as LERN 50

Interior Design 100

*1AB is equivalent to 1: maximum credit, 6 units;
+2AB is equivalent to 2: maximum credit, 6 units;

Japanese *1, *1A, *1B, +2, +2A, +2B, #3, #3A, #3B, **4, **4A, **4B, 16, 17, 18, 19, 20, 29, 39
*1AB is equivalent to 1: maximum credit, 6 units;
+2AB is equivalent to 2: maximum credit, 6 units
#3AB is equivalent to 3: maximum credit, 6 units
**4AB is equivalent to 4: maximum credit, 6 units

Journalism 19

Labor and Community Studies ^15, 70A, 70B, 88, **98A, #98B, +98C,
^Same as LALS 15
**Same as MUS 48A
#Same as MUS 48B
+Same as MUS 48C

Latin American/Latino/a Studies 1, 2, +5, *9, 10, 11, 13, 14, ^15, *70
*Independent Study course — to be reviewed for credit by UC campus upon transfer
*Same as LGBT 9
^Same as LBCS 15
+5, ECON 5, MATH 80 and PSYC 5 combined: maximum credit, one course

Learning Assistance *50
*Same as IDST 50

Lesbian/Gay/Bisexual/Transgender Studies 5, *9, 10, *11, 15, 18, 20, 50, 55, 75
*11 and 12, CINE 20A, 20B combined: maximum credit allowed, two courses
#Same as LALS 9

Library Information Skills 10

^No credit for 75 if taken after 100A or 110A
+80 combined with ECON 5, LALS 5 and PSYC 5: maximum credit, one course
*110ABC combined with 100A-B: maximum credit allowed, one series

Microbiology (See Biological Sciences)

Music 1A, 1B, 3A, 3B, 5A, 5B, 6A, 6B, 6C, 6D, 7P1, 7P2, 7P3, 7P4, 7V1, 7V2, 7V3, 7V4, 7W1, 7W2, 7W3, 7W4, 8A, 8B, 9A, 9B, 9C, 10A, 10B, 10C, 10D, 11, 12, 13A, 13B, 14, 15, 16, 17, 18, 19, 20, 21, 22A, 22B, 22C, 23, 24, 25, 26, 27A, 27B, 27Q, 27R, 28, 29, 30, 41, 42, 46,
^47, **48A, +48B, #48C, *100, 128, 200ABC
*No credit for 100 if taken after 1A or 3A
47, HLTH 50, (*)DANC, (*)PE and (*)PE A courses combined: maximum credit, 4 units
**MUS 48A same as LBCS 98A
+MUS 48B same as LBCS 98B
#MUS 48C same as LBCS 98C

Nutrition (See Biological Sciences)

Oceanography 1, 1L

Ornamental Horticulture 50, *76, *77
*76 and 77 combined: maximum credit, one course

Paralegal Studies (see Business)

Philippine Studies *10, 20, 30, 40, 42 (See also Pilipino courses)
*Independent Study course — to be reviewed for credit by UC campus upon transfer

Philosophy 2, 4, 12A, 25A, 25C, 40

Photography 40, 50A, 50B, 51, 60A, 60B, 81A, *100
*Same as DSGN 101, VMD 101

*Any or all of these courses. MUS 47, HLTH 50, (*)DANC, (*)PE and (*)PE A courses combined: maximum credit, 4 units
+Any or all of these courses combined: maximum credit, 8 units;
#14, and (*) HLTH courses combined: maximum credit, one course

*Any or all of these courses. MUS 47, HLTH 50, (*)DANC, (*)PE and (*)PE A courses combined: maximum credit, 4 units

Physical Science *11, 11L
*No credit if taken after a college course in Astronomy, Chemistry, Geology or Physics

*2A-2B combined with 4ABCD: maximum credit, one course; Deduct credit for duplication of topics
#10, 40 and 41 combined: maximum credit allowed, one course; no credit for 10, 40 or 41 if taken after 2A or 4A

Physiology (See Biological Sciences)
Pilipino 1, 2, 39A, 39B (See also Philippine Studies)
Political Science 1, 2, 3, 4, 5, 12, 18, 22, +41, +42A, +42B, +42C, +42D, 43, 45
  + Variable Topics course — to be reviewed for credit by UC campus upon transfer
Psychology 1, 1B, 2, *5, 10, 11, 21, 23, 24, 25, 32, 40, +41, +42, +43, 46
  *5 combined with ECON 5, LALS 5 and MATH 80: maximum credit allowed, one course
  + Variable Topics course — to be reviewed for credit by UC campus upon transfer
  *1AB is equivalent to 1; 21AB is equivalent to 21
  1A, 1AB, 21 and 21AB combined: maximum credit, 6 units;
  +2AB is equivalent to 2; 22AB is equivalent to 22;
  2, 2AB, and 22AB combined: maximum credit, 6 units;
  #3AB is equivalent to 3: maximum credit, 6 units;
Sociology 1, 2, 3, 11, 21, 25, 35
  *1AB is equivalent to 1: maximum credit, 6 units;
  +2AB is equivalent to 2: maximum credit, 6 units;
  #3AB is equivalent to 3: maximum credit, 6 units;
  #31AB is equivalent to 31:
  3, 3AB, 31 and 31AB combined: maximum credit, 6 units;
  ++6A and 6B combined equivalent to 6: maximum credit 6 units
Sustainability (see Engineering & Technology)
Visual Media Design *101, 110, **112, +118, 120, 122, 170, 182
  * Same as DSGN 101, PHOT 100
  ** Same as DSGN 110
  + Same as DSGN 150
  *Variable Topics course — to be reviewed for credit by UC campus transfer
World Languages and Cultures 100
Zoology (see Biological Science)
The University accepts transfer credit as indicated above, but does not accept more than 70 semester units of such credit toward graduation. Courses in excess of 70 semester units will receive subject credit and may be used to satisfy University subject requirements. The University does not accept credit that students have been granted for military service, nor does the University necessarily accept credit that City College of San Francisco has granted for work completed at other institutions.

Intersegmental General Education Transfer Curriculum (IGETC) for 2019-20
IGETC handouts and related information are available from a counselor; the Transfer Center; ASSIST, www.assist.org; or the CCSF articulation webpage, www.ccsf.edu/artic.
Completion of all the requirements in the Intersegmental General Education Transfer Curriculum (IGETC) will permit a student to transfer from a community college to a campus in either the California State University or the University of California system (generally in those majors at the UC campus which are included in those offered in the College of Letters and Science) without the need, after transfer, to take additional lower-division, general education courses to satisfy campus general education requirements. Students completing the IGETC pattern may petition for a Certificate of Achievement. In general, it is not advisable for transfer students preparing for engineering majors (at any UC campus) to use the IGETC. Students entering “high unit” majors, such as those in the sciences, can follow the IGETC but must be careful to complete all lower division major preparation.

CHECK WITH YOUR COUNSELOR OR THE UC CAMPUS WHICH YOU PLAN TO ATTEND TO DETERMINE IF YOU MAY USE IGETC OR IF YOU MUST FOLLOW THE CAMPUS-SPECIFIC REQUIREMENTS FOR YOUR PARTICULAR MAJOR.
The course requirements for ALL areas must be completed before IGETC can be fully certified, though IGETC may now be partially certified if all but two courses on the IGETC pattern have been completed. Additionally, students who complete the entire IGETC pattern may petition for the Certificate of Achievement in IGETC. ALL courses for IGETC certification must be completed with grades of “C” or better. A grade of Credit or Pass may be used if the community college’s policy states it is equivalent to a grade of C or better. For IGETC certification procedures, see a counselor.
Courses marked with an “*” have limits placed on transfer credits by UC or CSU. Courses listed in more than one area cannot be certified in more than one area, except for courses in AREA 6: Language Other Than English.
Due to catalog publication deadlines, the following is a list of IGETC courses from the 2019-20 academic year. Updated information is available from a counselor; the Transfer Center; ASSIST, www.assist.org, or the CCSF articulation webpage, www.ccsf.edu/artic.

AREA 1: English Communication
CSU—Three courses required—one (1) course from each group
UC—Two courses required—one from Group A, & one from Group B.

1A-English composition:
Upon completion of this coursework, a student will be able to:
  1. Read critically to annotate, analyze, synthesize, and evaluate primarily non-fiction, college-level texts.
  2. Compose organized and coherent source-based essays that demonstrate critical thinking and rhetorical strategies.
  3. Demonstrate control over all major conventions of standard English grammar and punctuation.
  4. Select and integrate reliable, credible, and scholarly sources to support essays, using a standardized citation format

One course from the following:
  English 1A

1B-Critical Thinking—English Composition:
Upon completion of this coursework, a student will be able to:
  1. Practice inductive and deductive reasoning in written or oral contexts.
  2. Integrate support for ideas into an argument structure.
  3. Identify formal and informal fallacies of language in thought.

One course from the following:
  Communication Studies 2
  English 1B, 1C

1C-Oral Communication (CSU-ONLY):
Upon completion of this coursework, a student will be able to:
  1. Demonstrate clear and precise oral expression.
  2. Identify and use culturally competent communication practices.
  3. Analyze how communication practices impact experiences.

One course from the following:
  Communication Studies 1A, 3, 4, 20

AREA 2: Mathematical Concepts and Quantitative Reasoning
Upon completion of this coursework, a student will be able to:
  1. Apply mathematical concepts through numerical, symbolic, graphical, and verbal methods to interpret quantitative information, solve problems, and communication results.
Transfer Information

One course from the following:
Economics *5
Latin Amer & Latino/a Studies *5
Psychology *5

AREA 3: Arts and Humanities
At least three courses, with at least one from the Arts and one from the Humanities, 9 semester units.

3A Arts:
Upon completion of this coursework, a student will be able to:
1. Identify connections between the arts and cultural and social awareness.
2. Analyze the broader social/historical contexts of works of art.
3. Evaluate the creative expression of self and others.

At least one course from the following:
African American Studies 35
Asian Studies 11
Cinema 18, 23A, 23B
Dance 30, 32
Latin Amer & Latino/a Studies 14
Lesbian, Gay, Bisexual & Trans 20, 55
Photography 40, 50A, 50B
Theatre Arts 30, 31, 32, 33
Visual Media Design 110

3B Humanities:
Upon completion of this coursework, a student will be able to:
1. Exhibit and understanding of the ways in which people in diverse cultures and eras have produced culturally significant works.
2. Communicate effectively the meanings and intentions of creative expression.
3. Use analytical techniques to assess the value of human creations in meaningful ways.
4. Demonstrate an understanding of the human condition through language, reasoning, or artistic creation.

At least one course from the following:
African American Studies 30, 40, 60
American Sign Language 2A
American Studies 5
Asian American Studies 6, 10, 35
Asian Studies 15, 30
Classics 35
Communication Studies 8
German *3, *3A, *3B, 4A, 4B
Interdisciplinary Studies 3, 4, 14, 27B, 29, 30, 31, 36, 37, 46, 47
Italian 3A, 3B, 4A, 4B
Latin Amer & Latino/a Studies 1
Lesbian, Gay, Bisexual & Trans *11, 12, 15, 18, 75
Philippine Studies 30, 42
Philosophy 2, 4, 25A, 25C
Pilipino 39A, 39B
Women's and Gender Studies 10

AREA 4: Social and Behavioral Sciences
Upon completion of this coursework, a student will be able to:
1. Exhibit an understanding of methods of inquiry used by the social and behavioral sciences.
2. Critically evaluate the ways people act, think and feel in response to their societies.
3. Demonstrate socio-cultural participation skills, ethical reasoning, and political awareness in order to be effective citizens in a diverse world.

At least three (3) courses from at least two (2) disciplines or an interdisciplinary sequence. 9 semester units (12–15 qtr. units)
Administration of Justice 57, 59, 65, 67
African American Studies 42
American Studies 5
Anthropology 2, 3, 3C, 4, 8, 11, 12, 15, 20, 25
Asian American Studies 8, 20, 22, 27, 30, 35, 40, 42
Broadcast Electronic Media Arts 101, 103, 104, 105
Child Development 53, 67
Communication Studies 5
Economics 1, 3, 6, 15, 20, 25, 30
Geography 3, 4, 7
Health 6, 10, 52, 54, 56, 221, 231
Interdisciplinary Studies 7, 17, 30, 31, 37, 45
Labor Studies 15, 70A, 70B, 88
Latin American And Latino/A Studies 1, 9, 10, 11, 13, 15
Lesbian, Gay, Bisexual, & Transgender Studies 5, 9, 10, 50
Philippine Studies 20, 40
Physical Education 13, 28
Political Science 1, 2, 3, 4, 5, 12, 18, 22, 43, 45
Psychology 1, 2, 10, 11, 21, 23, 24, 25, 32, 40, 46
Sociology 1, 2, 3, 21, 25, 35
Women's and Gender Studies 25, 35, 54

AREA 5: Physical and Biological Sciences
Two (2) courses, one Physical Science course and one Biological Science course: must include at least one Laboratory Activity, 7-9 semester units. (9-12 quarter units)

5A Physical Sciences
Upon completion of this coursework, a student will be able to:
1. Apply scientific inquiry and investigation of evidence to critically evaluate physical science arguments.
2. Communicate scientific ideas and theories effectively.
3. Apply scientific principles, theories, or models to explain the behavior of natural physical phenomena.
4. Apply physical science knowledge and reasoning to human interaction with the natural world and issues impacting society.

One course from the following:
Astronomy 3, 17, 18, 19
Energy 3
Upon completion of this coursework, a student will be able to:
1. Apply scientific inquiry and investigation of evidence to critically evaluate biological science arguments.
2. Communicate scientific ideas and theories effectively.
3. Apply scientific principles, theories, or models to explain the behavior of natural biological phenomena.
4. Apply biological science knowledge and reasoning to human interaction with the natural world and issues impacting society.

One course from the following:
- Anthropology 1
- Astronomy 4
- Biology 9, 10, 11, 12, 14, 19, 20, 31, 32, 33, 40, 51, 53, 61, 100A, 100B, 106, 108, 111, 112, 114, 118, 120
- Biotechnology 4
- Geography 31
- Psychology 1B
- Sustainability 31

5C Laboratory Activity
Upon completion of this coursework, a student will be able to:
1. Investigate natural phenomena through a variety of scientific inquiry techniques.
2. Analyze and evaluate data from the natural world.
3. Apply scientific principles, theories, or models to predict and explain the behavior of natural phenomena.

One course from the following:
- Anthropology 1L
- Astronomy 16
- Biology 9, 10, 11, 12, 14, 19, 20, 31L, 32L, 51L, 100A, 100B, 106, 108, 111, 112, 118, 120
- Biotechnology 4
- Geography 1L
- Geology 10L, 11L, 30L
- Oceanography 1L
- Physical Science 11L
- Physics 2AL, 2BL, 4AL, 4BL, 4CL, 4DL, 10L
- Sustainability 31L

AREA 6: Language Other Than English
Upon completion of this coursework, a student will be able to:
1. Communicate effectively, beyond beginning level, in a language other than English.
2. Compose well-organized writing in a language other than English.
3. Demonstrate comprehension of the spoken non-English language in a variety of listening situations.
4. Interpret a variety of written texts in a language other than English.

(UC requirement ONLY)
Complete ONE of the following ways to demonstrate proficiency in a language other than English:
1. Coursework
   a. High school courses
      i. In a high school where the language of instruction is English, completion of the second level of high school coursework in a language other than English with a letter grade of “C-” or better in the second semester of the second year.
   ii. In an institution where the language of instruction is not English, formal schooling through the sixth grade level or higher. Appropriate documentation must be presented to substantiate the language of instruction. If an official sealed transcript cannot be obtained from an international institution, an unofficial or opened transcript may be used.

b. College courses
   ii. A Defense Language Institute Foreign Language Center (DLIFLC) language other than English course which is indicated as passed with a “C” or higher on the official transcript.

2. Examinations
   a. SAT II: Subject Tests in languages other than English with minimum scores as indicated below:
      Before May 1995 use 1st score; if taken after May 1995 use 2nd score:
      - Chinese with listening: 500/520
      - French/French with listening: 500/540
      - German/German with listening: 500/510
      - Hebrew (Modern): 500/470
      - Italian: 500/520
      - Japanese with listening: 500/510
      - Korean/Korean with listening: --/500
      - Latin: 500/530
      - Spanish/Spanish with listening: 500/520
   b. Advanced Placement (AP) examinations in languages other than English with a score of 3 or higher.
   c. International Baccalaureate Higher Level (IBHL) examinations in languages other than English with a score of 5 or higher.
   d. (International) General Certificate of Secondary Education [(I)GCSE]/General Certificate of Education (GCE) “O” level exams in languages other than English with a grade of “A,” “B,” or “C.”
   e. General Certificate of Education (GCE) “A” Level exams in languages other than English with a grade of “A,” “B” or “C.”

3. Other
   a. Satisfactory completion of an achievement test administered
by a community college, university, or other college in a language other than English. The test will have to assess the student's proficiency at the level equivalent to two years of high school language. This conclusion must be posted on a transcript indicating unit, course title and grade or on a document with letterhead of the institution granting proficiency stating that the student has mastered proficiency in the language equivalent to two years of high school language.

b. If an achievement test is not available, a faculty member associated with a United States regionally accredited institution of higher education can verify a student's competency. The institution must provide a document on letterhead asserting that the student has mastered proficiency in the language equivalent to two years/second level of high school instruction.

**CSU Only: U.S. History, Constitution and American Ideals**
(Not part of IGETC; may be completed prior to transfer.)
Upon completion of this coursework, a student will be able to:

US1: Analyze significant events from U.S. history, including cultural and regional influences.

US2: Evaluate political institutions and processes in the United States.


**Six (6) units, one course from Group 1 (US-2&3) and one course from Group 2 (US-1):**

**Group 1:** Political Science 1,
**Group 2:** Asian American Studies 20; History 1, 9, 12A, 12B, 17A, 17B, 41A, 41B, 45; Labor and Community Studies 70A, 70B; Latin American and Latino/a Studies 1

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**Course Identification Numbering System (C-ID)**
The Course Identification Numbering System (C-ID) is a statewide numbering system independent from the course numbers assigned by individual California community colleges. A C-ID number next to a course signals that participating California colleges and universities have determined that courses offered by other California community colleges are comparable in content and scope to courses offered on their own campuses, regardless of their unique titles or local course number. Thus, if a schedule of classes or catalog lists a course bearing a C-ID number, for example COMM 110, students at that college can be assured that it will be accepted in lieu of a course bearing the C-ID COMM 110 designation at another community college. In other words, the C-ID designation can be used to identify comparable courses at different community colleges. However, students should always go to www.assist.org to confirm how each college's course will be accepted at a particular four-year college or university for transfer credit.

The C-ID numbering system is useful for students attending more than one community college and is applied to many of the transferable courses students need as preparation for transfer. Because these course requirements may change and because courses may be modified and qualified for or deleted from the C-ID database, students should check with a counselor to determine how C-ID designated courses fit into their educational plans for transfer. Students may consult the ASSIST database at www.assist.org for specific information on C-ID course designations. Counselors can help students interpret or explain this information.

Below are CCSF courses that have been approved for C-ID numbers at the time of this catalog's publication. Updated information is available at http://www.c-id.net/course_compare.html.
C-ID Number | CCSF Course
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ECON 201 | ECON-3
ECON 202 | ECON -1
ENGL 100 (ENGL 110) | ENGL -1A
ENGL 105 (ENGL 115) | ENGL-1C
ENGL 110 | ENGL-1B
ENGL 120 (ENGL-LIT 100) | ENGL-1B
ENGL 130 | ENGL-30A
ENGL 135 | ENGL-30B
ENGL 140 (ENGL-LIT 180) | ENGL-44A
ENGL 145 (ENGL-LIT 185) | ENGL-44B
ENGL 160 (ENGL-LIT 160) | ENGL-46A
ENGL 165 | ENGL-46B, ENGL-46C
ENGL 200 (ENGL-CW 100) | ENGL-35A, ENGL-35C
FTVE 120 | BCST-120
FTVE 130 | BCST-141
GEOG 110 | GEOG-1
GEOG 111 | GEOG-1L
GEOG 115 | GEOG-1, GEOG-1L
GEOG 120 | GEOG-4
GEOG 125 | GEOG-3
GEOG 155 | GEOG-110
GEOL 100L | GEOL-10L
GEOL 100 | GEOL -10
GEOL 101 | GEOL-10, GEOL-10L
GEOL 110 | GEOL-11
GEOL 110L | GEOL-11L
GEOL 130L | GEOL-30L
GEOL 130 | GEOL-30
GEOL 131 | GEOL-30, GEOL-30L
HIST 130 | HIST-17A
HIST 140 | HIST -17B
HIST 170 | HIST -4A
HIST 180 | HIST -4B
HOSP 100 | CAHS-100
HOSP 110 | BIO-121
HOSP 120 | CAHS-33
HOSP 130 | CAHS-30A, CAHS-30B
HOSP 140 | CAHS-43
HOSP 150 | CAHS-34
HOSP 160 | CAHS-20B, CAHS-20C, CAHS-20A
JOUR 110 | JOUR-21

C-ID Number | CCSF Course
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JOUR 120 | JOUR-35
JOUR 130 | JOUR-24
JOUR 150 | JOUR-26
JOUR 210 | JOUR-36
MATH 110 | LALS-5
MATH 110 | ECON 5
MATH 110 | MATH 80
MATH 160 | MATH-110A
MATH 210 | MATH-110A
MATH 220 | MATH-110B
MATH 230 | MATH-110C
MATH 240 | MATH-125
MATH 250 | MATH-120
MATH 900S | MATH-110A, MATH-110B
MUS 100 | MUS 27A
MUS 120 | MUS 3A
MUS 125 | MUS 1A
MUS 130 | MUS 3B
MUS 170 | MUS 9A
MUS 171 | MUS 9B
PHIL 100 | PHIL-4
PHIL 120 | PHIL 2
PHIL 130 | PHIL-25A
PHIL 140 | PHIL-25C
PHIL 210 | PHIL-12A
PHYS 100S | PHYC-2A, PHYC-2A, PHYC-2B, PHYC-2BL,
PHYS 105 | PHYC-2A, PHYC-2AL,
PHYS 110 | PHYC-2B, PHYC-2BL
PHYS 200S | PHYC-4A, PHYC-4A, PHYC-4AL, PHYC-4B, PHYC-4BL, PHYC-4C, PHYC-4CL, PHYC-4D, PHYC-4DL
PHYS 205 | PHYC-4A, PHYC-4AL
PHYS 210 | PHYC-4B, PHYC-4BL
POLI 110 | POLS-1
POLI 120 | POLS-3
POLI 130 | POLS-2
POLI 140 | POLS-5
PSY 110 | PSYC-1
PSY 120 | PSYC-10
PSY 130 | IDST 17
PSY 150 | PSYC-1B
PSY 170 | PSYC-32

C-ID Number | CCSF Course
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PST 180 | PSYC -21
PY 200 | PSYC-2
SJS 120 | WGST 25
SJS 130 | LGBT 5
SOCI 110 | SOC -1
SOCI 115 | SOC-3
SOCI 120 | SOC-21
SOCI 130 | SOC-35
SOCI 140 | SOC-25
SOCI 150 | IDST-37
SPAN 100 | SPAN-1
SPAN 100 | SPAN-1, SPAN-1B
SPAN 110 | SPAN-2
SPAN 110 | SPAN-2A, SPAN-2B
SPAN 200 | SPAN-3
SPAN 200 | SPAN-3A, SPAN-3B
SPAN 210 | SPAN-6
SPAN 210 | SPAN-6A, SPAN-6B
SPAN 220 | SPAN-31
SPAN 220 | SPAN-31A, SPAN-31B
SPAN 230 | SPAN-32
SPAN 230 | SPAN-32A, SPAN-32B
THTR 111 | TH A-30
THTR 151 | TH A-150A
THTR 152 | TH A-150B
THTR 171 | TH A-60
THTR 173 | TH A-63
THTR 191 | TH A-201A
THTR 191 | TH A-201B
THTR 191 | TH A-201C
THTR 191 | TH A-202A
THTR 191 | TH A-202B
THTR 191 | TH A-202C
THTR 191 | TH A-203A
THTR 191 | TH A-203B
THTR 191 | TH A-203C
THTR 191 | TH A-204A
THTR 191 | TH A-204B
THTR 191 | TH A-204C
THTR 192 | TH A-61