

General Education Pattern for Associate of Science (AS) Degree

- Courses may be listed in more than one area but will NOT be certified more than once, unless otherwise stated.
- For a course to meet an AA requirement, the course must be on the AA pattern during the academic year it is taken.

Area I. Language and Rationality (at least 6 units required with at least 1 course each from English Composition and Communication and Analytical Thinking)

IA - English Composition (at least 3 units required) *Complete with a grade of 'C' or higher or 'P'*

ENG 1A Critical Reading and Composition	ENG 1AEX Critical Reading and Composition Expanded	ESL 1A Critical Reading and Composition for ESL
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IB - Communication and Analytical Thinking (at least 3 units required)

ASL 1A American Sign Language I ASL 1B American Sign Language II BUSN 33 Personal Financial Management and Planning BUSN 48 Human Relations in Organizations BUSN 52 Business Communications CIS 7 Introduction to Programming Concepts & Methodologies CIS 43 Professional Communications CIS 50 Introduction to Computing Information Technology CMST 1 Fundamentals of Public Speaking CMST 2 Oral Interpretation of Literature CMST 4 Introduction to Communication Studies CMST 10 Interpersonal Communication CMST 46 Argumentation and Debate CMST 48 Activities in Forensics CNT 43 Professional Communications	CS 1 Computing Fundamentals I CS 17 Discrete Mathematical Structures CS 43 Professional Communications FREN 1A Beginning French FREN 1B Elementary French JAMS 11 Introduction to Reporting & Newswriting MATH 1 Calculus I MATH 2 Calculus II MATH 3 Multivariable Calculus MATH 5 Ordinary Differential Equations MATH 7 Elementary Linear Algebra MATH 10 Discrete Mathematical Structures MATH 27 Number Systems for Educators MATH 30 College Algebra for STEM MATH 33 Finite Mathematics	MATH 34 Business Calculus MATH 39 Trigonometry MATH 40 Statistics and Probability MATH 47 Mathematics for Liberal Arts MATH 55 Intermediate Algebra for BSTEM PHIL 6 Introduction to Logic PHIL 8 Logic and Argumentation SPAN 1A Beginning Spanish SPAN 1B Elementary Spanish SPAN 21 Spanish for Spanish Speakers I SPAN 22 Spanish for Spanish Speakers II SPAN 23 Introduction to Hispanic Literature THEA 3A Beginning Improvisation THEA 25 Fundamentals of Stage Speech
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Area II. Natural Sciences (at least 3 units required)

ANTR 1 Biological Anthropology ANTR 1L Biological Anthropology Lab ANTR 2L Archaeology Field Lab ANTR 13 Introduction to Forensic Anthropology ASTR 30L Introduction to Astronomy Lab ASTR 31 Introduction to Astronomy: The Solar System ASTR 32 Introduction to Astronomy: Stars and the Universe BIO 1A General Botany BIO 1B General Zoology BIO 1C Cell and Molecular Biology BIO 7A Human Anatomy BIO 7B Human Physiology BIO 7C Microbiology BIO 10 Introduction to the Science of Biology BIO 20 Contemporary Human Biology BIO 30 Introduction to College Biology BIO 40 Humans and the Environment	BIO 50 Anatomy and Physiology BIO 60 Marine Biology BIO 70 Field Biology CHEM 1A General College Chemistry I CHEM 1B General College Chemistry II CHEM 12A Organic Chemistry I CHEM 12B Organic Chemistry II CHEM 30A Introductory and Applied Chemistry I CHEM 30B Introductory and Applied Chemistry II CHEM 31 Introduction to College Chemistry EVST 5 Energy and Sustainability GEOG 1 Introduction to Physical Geography GEOG 1L Introduction to Physical Geography Laboratory GEOG 8 Introduction to Atmospheric Science GEOG 12 Geography of California GEOG 15 Introduction to GIS GEOL 1 Physical Geology	GEOL 1L Physical Geology Laboratory GEOL 2 Historical Geology GEOL 5 Environmental Geology: Hazards & Disasters GEOL 7 Environmental Geology: Resources, Use Impact & Pollution GEOL 12 Introduction to Oceanography GEOL 12L Introduction to Oceanography Laboratory GEOL 20 Earth Science for Educators PHYS 1A General Physics I PHYS 1B General Physics II PHYS 1C General Physics III PHYS 1D General Physics IV PHYS 2A Introduction to Physics I PHYS 2B Introduction to Physics II PHYS 10 Descriptive Physics PHYS 10L Descriptive Physics Lab PSYC 4 Brain, Mind and Behavior
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Area III. Humanities (at least 3 units required)

ASL 2A American Sign Language III ASL 2B American Sign Language IV ARHS 1 Introduction to Art History ARHS 2 Art of the Ancient Americas ARHS 3 Arts of Africa, Oceania, & Indigenous North Americas ARHS 4 Western Art History - Ancient to Medieval ARHS 5 Western Art History - Renaissance to Contemporary ARHS 7 Modern Art History ARHS 8 Asian Art History ARTS 2A Introduction to Drawing ARTS 3A Figure and Composition I ARTS 4A Introduction to Ceramics ARTS 7A Introduction to Watercolor Painting ARTS 12A Oil/Acrylic Painting: Beginning I ARTS 23 2-D Design CMST 2 Oral Interpretation of Literature CMST 5 Readers Theater CMST 11 Intercultural Communication ECE 61 Literature for the Young Child ENG 4 Critical Thinking and Writing About Literature ENG 7 Critical Thinking and Writing Across Disciplines ENG 11 Introduction to Creative Writing ENG 12A Craft of Writing Fiction ENG 12B Craft of Writing Fiction: Intermediate ENG 12C Craft of Writing Fiction: Advanced ENG 13A The Craft of Writing Poetry: Beginning ENG 13B The Craft of Writing Poetry: Intermediate ENG 20 Studies in Shakespeare ENG 32 U.S. Women's Literature ENG 35 Modern American Literature ENG 41 Modern World Literature ENG 42 Literature of the African Diaspora in America ENG 44 Literature of the American West ENG 45 Studies in Fiction	GDDM 3 History of Graphic Design GDDM 70 Photoshop and Lightroom for Photographers HIST 1 Western Civilization to 1600 HIST 2 Western Civilization since 1600 HIST 3 World History to 1500 HIST 4 World History since 1500 HIST 7 US History Through Reconstruction HIST 8 US History Post-Reconstruction HIST 14 History and American Cultures of California HIST 25 American Indian History HIST 28 History of the American West HIST 32 U.S. Women's History HUMN 2 Introduction to Film Studies HUMN 3 Introduction to Humanities HUMN 4 Global Cinemas HUMN 6 Nature and Culture HUMN 10 American Arts and Ideas HUMN 11 Culture and the Arts I: Ancient World to Renaissance HUMN 12 Culture and the Arts II: The Modern World HUMN 28 World Mythology MUS 1 Introduction to Music MUS 3 World Music MUS 4 Jazz in American Culture MUS 5 American Cultures in Music MUS 6 Basic Music Skills MUS 8A Music Theory and Musicianship 1 MUS 8B Music Theory and Musicianship 2 MUS 13 History of Rock & Roll MUS 14 Jazz Workshop MUS 19 Studies in Music Composition MUS 20A Elementary Guitar MUS 21A Beginning Piano MUS 23A Elementary Voice I MUS 34 Music in Film	MUS 37 Music Business MUS 38 Applied Lessons MUS 44 Concert Choir MUS 45 Chamber Choir MUS 46 Vocal Jazz Ensemble PHIL 1 God, Nature, Human Nature PHIL 1H Honors Philosophy 1: God, Nature, Human Nature PHIL 2 Ethics PHIL 2H Honors Philosophy 2: Ethics PHIL 3 Aesthetics PHIL 4 Intro to Philosophy: Knowledge PHIL 5 Feminist Philosophy PHIL 6 Introduction to Logic PHIL 8 Logic and Argumentation PHTO 67 History of Photography PHTO 70 Photoshop and Lightroom for Photographers RELS 1 Religions of the World RELS 2 Bible: History and Literature RELS 3 Introduction to Women's Spirituality RELS 11 Introduction to Islam SPAN 2A Intermediate Spanish I SPAN 2B Intermediate Spanish II SPAN 21 Spanish for Spanish Speakers I SPAN 22 Spanish for Spanish Speakers II SPAN 23 Introduction to Hispanic Literature THEA 1A Theory/Practice of Acting I THEA 1B Theory/Practice of Acting II THEA 4 American Cultures in Theater THEA 5 Theater for Young Audiences THEA 10 Introduction to Dramatic Arts THEA 11 Stage to Screen THEA 14 Bay Area Theater THEA 52 Introduction to Design WLDT 71 Welding for the Arts
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Area IV. Social and Behavioral Sciences (at least 3 units required)

AJ 50 Introduction to Administration of Justice	ENG 44 Literature of the American West	PCN 13 Multicultural Issues in Contemporary America
AJ 56 Fundamentals of Crime and Delinquency	ETHS 5 Psychology of Race and Identity	POLI 7 Introduction to American Government
AJ 60 Criminal Law	ETHS 6 Introduction to Race and Ethnicity	POLI 12 Introduction to California State and Local Government
AJ 66 Juvenile Procedures	GEOG 1 Introduction to Physical Geography	POLI 20 Comparative Government
AJ 78 Introduction to Probation and Parole	GEOG 2 Cultural Geography	POLI 25 Introduction to Political Theory
ANTR 1 Biological Anthropology	GEOG 5 World Regional Geography	POLI 26 Introduction to Gender, Sexuality, and Politics
ANTR 2 Introduction to Archaeology	GEOG 12 Geography of California	POLI 30 International Relations
ANTR 3 Cultural Anthropology	GEOG 15 Introduction to GIS	PSYC 1 General Psychology
ANTR 4 Language and Culture	GS 1 Introduction to Global Studies	PSYC 3 Introduction to Social Psychology
ANTR 5 Cultures of the U.S. In Global Perspective	GS 2 Global Issues	PSYC 4 Brain, Mind and Behavior
ANTR 6 Anthropology of Sex and Gender	HEA 3 Women's Health	PSYC 6 Abnormal Psychology
ANTR 7 Native American Cultures of North America	HEA 7 Introduction to Public Health	PSYC 12 Life-span Psychology
ANTR 8 World Prehistory in Archaeological Perspective	HEA 11 Health and Social Justice	PSYC 13 Psychology of Women
ANTR 12 Magic/Religion/Witchcraft/Healing	HIST 1 Western Civilization to 1600	PSYC 15 Abnormal Child Psychology
ANTR 13 Introduction to Forensic Anthropology	HIST 2 Western Civilization since 1600	PSYC 17 The Psychology of Sleep and Dreams
BUSN 18 Business Law	HIST 3 World History to 1500	PSYC 21 Psychology of Race and Identity
BUSN 20 International Business	HIST 4 World History since 1500	PSYC 25 Research Methods
BUSN 30 Business Ethics and Society	HIST 7 US History Through Reconstruction	PSYC 27 Introduction to Cognitive Science
CMST 3 Group Communication	HIST 8 US History Post-Reconstruction	SOC 1 Principles of Sociology
CMST 4 Introduction to Communication Studies	HIST 14 History and American Cultures of California	SOC 3 Introduction to Race and Ethnicity
CMST 10 Interpersonal Communication	HIST 25 American Indian History	SOC 4 Marriage and Family Relations
CMST 11 Intercultural Communication	HIST 28 History of the American West	SOC 5 Introduction to Global Studies
ECE 10 Introduction to Education	HIST 32 U.S. Women's History	SOC 6 Social Problems
ECE 56 Child Growth and Development	JAMS 1 Introduction to Mass Communications	SOC 7 Sociology of Sexuality
ECE 62 Child, Family and Community	JAMS 2 Introduction to Media	SOC 11 Sociology of Gender
ECE 79 Teaching in a Diverse Society	LGBT 1 Introduction to LGBTQ Studies	SOC 12 Popular Culture
ECON 1 Principles of Microeconomics	LGBT 2 Lesbian, Gay, Bisexual, Transgender, and Queer Psychology	SOC 13 Research Methods
ECON 2 Principles of Macroeconomics	MKTG 50 Introduction to Marketing	WMST 1 Introduction to Women's Studies
ECON 5 Economic History of the United States	PCN 3 Theories & Concepts of Counseling: An Introduction	WMST 2 Global Perspective of Women
ECON 10 General Economics	PCN 5 Introduction to Social Work & Human Services	

Area V. Kinesiology (at least 1 unit required) *Veterans with DD214 honorable discharge receive a waiver for this area and 3 units*

VA - Kinesiology (at least 1 unit required) *Exemption from the Kinesiology requirement is allowed for illness or physical disability by filing a physician's statement at the Admissions & Records Office or for students who hold an AA/AS Degree or higher.*

DANC 1 Introduction to Dance	DANC 4A Modern/Contemporary Dance A	FST 7 Fire Service Conditioning & Physical Agility Development
DANC 2A Jazz Dance Fundamentals/Beginning	DANC 4B Modern/Contemporary Dance B	Any Kinesiology Intercollegiate Athletics Course (KIN 32A-65)
DANC 2B Jazz Dance Beginning/Intermediate	DANC 6A Choreography for the Stage A	Any Kinesiology Activity Course (KIN AF1-ZUM1)
DANC 3A Ballet Fundamentals/Beginning	DANC 6B Choreography for the Stage B	

Area VI. Program-Based General Education Requirement (at least 3 units required)

You will need **1 course** to satisfy this area. The course is specific to each A.S. Degree Major; see the 2022-2023 Catalog or the A.S. program coordinator.

AC. American Cultures (at least 1 course required with a grade of 'C' or higher or 'P')

Where appropriate, the course can simultaneously satisfy 1 other graduate or subject area requirement.

ANTR 5 Cultures of the U.S. In Global Perspective	HIST 28 History of the American West	PCN 13 Multicultural Issues in Contemporary America
ANTR 7 Native American Cultures of North America	HIST 32 U.S. Women's History	POLI 12 Introduction to California State and Local Government
CMST 11 Intercultural Communication	HUMN 10 American Arts and Ideas	POLI 26 Introduction to Gender, Sexuality, and Politics
ECE 79 Teaching in a Diverse Society	MUS 3 World Music	PSYC 21 Psychology of Race and Identity
ENG 44 Literature of the American West	MUS 4 Jazz in American Culture	SOC 3 Introduction to Race and Ethnicity
ETHS 5 Psychology of Race and Identity	MUS 5 American Cultures in Music	THEA 4 Modern American Theater
ETHS 6 Introduction to Race and Ethnicity	MUS 13 History of Rock & Roll	WMST 1 Introduction to Women's Studies
HIST 14 History and American Cultures of California	PCN 3 Theories & Concepts of Counseling: An Introduction	

MP. Mathematics Proficiency (proficiency in Mathematics may be met in one of the following ways)

1. Submit Documentation showing completion of Algebra 2 or Integrated Math 3 in High School with a **'C' or higher**, an AP score of 3 or higher, an IB score of 4 or higher, or a CLEP score of 50 or higher.
2. Complete one of the mathematics courses listed below at Las Positas College (with a grade of **'C' or higher or 'P'**).
3. Submit Documentation showing completion of one of the mathematics courses listed below (or equivalent) at another institution (with a grade of **'C' or higher or 'P'**).

CS 17 Discrete Mathematical Structures	MATH 10 Discrete Mathematical Structures	MATH 40 Statistics and Probability
MATH 1 Calculus I	MATH 27 Number Systems for Educators	MATH 47 Mathematics for Liberal Arts
MATH 2 Calculus II	MATH 30 College Algebra for STEM	MATH 55 Intermediate Algebra for BSTEM
MATH 3 Multivariable Calculus	MATH 33 Finite Mathematics	NMAT 255 Intermediate Algebra for BSTEM
MATH 5 Ordinary Differential Equations	MATH 34 Business Calculus	
MATH 7 Elementary Linear Algebra	MATH 39 Trigonometry	

Graduation Requirements

1. Select a major and complete all major requirements plus GE and electives to total 60 or more units.
2. Complete a minimum of 60 units with a cumulative grade point average of **2.0 or better**.
3. Complete a minimum of 12 units at Las Positas College.
4. Complete all General Education (GE) Requirements for the Associate of Science Degree, IGETC (for CSU), or CSU GE-B.
5. All courses required for the Major must be completed with a **'C' or higher or 'P.'**

Please note that Las Positas and Chabot College DO NOT share AA or AS patterns. If you are interested in taking a course at Chabot College please be sure to see a counselor.