CODED CORRESPONDENCE

DATE:
May 22, 2026

NUMBER:
26-06

TO:
All Individuals and Groups Interested in the Activities of the Commission on Teacher Credentialing

FROM:
Mary Vixie Sandy
Executive Director
Commission on Teacher Credentialing

SUBJECT: Proposed Regulatory Amendments Pertaining to Adding Supplementary and Subject Matter Authorizations to General Education Teaching Credentials

Summary
The Commission on Teacher Credentialing (Commission) proposes to take the regulatory action described below after considering all comments, objections, and recommendations regarding the proposed action. A copy of the proposed regulations is included with the added text underlined and the deleted text lined out.

Notice of Public Hearing
The Commission has not scheduled a public hearing on this proposed action. However, the Commission will hold a hearing if it receives a written request for a public hearing from any interested person, or their authorized representative, no later than 15 days before the close of the comment period.

Written Comment Period
Any interested person, or his or her authorized representative, may submit written comments relevant to the proposed action by fax, through the mail, or by email. The written comment period closes on July 6, 2026. Comments must be received by that time or may be submitted at the public hearing, should one be requested. Interested parties may fax their response to (916) 327-3165; write to the Commission on Teacher Credentialing, Attn: Christina Villanueva, 651 Bannon Street, Suite 601, Sacramento, CA 95811; by phone at (916) 327-2967 or submit an

email to Regulations@ctc.ca.gov. Alternatively contact Ann Harris at (916) 327-2967 or by email at Regulations@ctc.ca.gov.

Any written comments received by the closing of the public comment period will be reproduced by Commission staff for each member of the Commission as a courtesy to the person submitting the comments and will be included in the written agenda prepared for and presented to the full Commission.

Authority
Education Code section 44225(q) authorizes the Commission to adopt the proposed regulations and amendments.

Reference
Education Code sections 44256 and 44259

Information Digest/Policy Statement Overview
Summary of Existing Laws and Effect of the Proposed Action
Prior to the passage of Assembly Bill (AB) 2473 (Chap. 831, Stats 2024), an educator seeking to add a Supplementary and Subject Matter Authorization to an existing credential was required to demonstrate academic requirements via coursework evaluation or via degree major by providing official transcripts with their application for the authorization. Effective September 28, 2024, statutory amendments resulting from AB 2473 provide new pathways for educators to add Supplementary Authorizations and Subject Matter Authorizations to Single Subject and Multiple Subject teaching credentials. These new options provide applicants with pathways to use existing California Subject Examinations for Teachers (CSET) exams or out-of-state licenses that correspond to a Supplementary or Subject Matter Authorization to add that authorization without investing additional time and expense to complete the previous coursework requirements.

Anticipated Benefits of the Proposed Regulations
Amendments to Education Code section 44256 provides the following additional pathways for educators to satisfy subject matter requirements for Supplementary and Subject Matter Authorizations:

- Passage of the CSET examinations;
- Combination of CSET examinations and coursework, reviewed by an approved preparation program; and
- Educators prepared and licensed in another state may request a Supplementary Authorization or Subject Matter Authorization based on holding a comparable authorization on a professional-level, out-of-state teaching license.

The additional pathways provide educators with opportunities to earn subject specific authorizations that were not previously available to them. For example, an educator with an out-of-state teaching license who was previously unable to obtain a full Single Subject Teaching credential, due to lack of alignment with either the statutory subject area or grade level, now has the option to obtain a Supplementary or Subject Matter Authorization in the comparable

subject area. Additionally, educators who already have completed CSET exams in a specific subject area may have the opportunity to apply for a Supplementary or Subject Matter Authorization without taking additional exams. The available options to earn each subject authorization, including the CSET exams required, are outlined within the Appendices of Coded Correspondence 25-03.

In addition to the amendments required to align regulations with the statutory changes resulting from AB 2473, proposed amendments also include updates to coursework requirements for visual arts and dance related authorizations for cultural relevancy and to align with current curriculum frameworks.

Commission staff and education partners worked to collaboratively ensure that the proposed amendments to coursework requirements are accessible for educators and do not create additional barriers. The proposed coursework is intended to modernize requirements to align with courses that are widely available and currently offered within the university and community college systems.

Amendments to the coursework requirements recommended by the California Art Education Association (CAEA) and the California Dance Education Association (CDEA) reflect California Arts Education Framework and Standards and support its focus on diversity and cultural relevancy. CAEA advised that the current art coursework requirements, established decades ago, are narrowly focused on traditional art forms such as drawing, painting, and crafts, and do not reflect the full scope of contemporary visual arts practice. Likewise, CDEA noted that the current dance coursework requirements are no longer aligned with the rapidly evolving dance offerings statewide, as they are focused on preparation to teach only jazz and contemporary dance.

Determination of Inconsistency/Incompatibility with Existing State Regulations
The Commission has determined that the proposed regulation amendments are not inconsistent or incompatible with existing regulations. After conducting a review of any regulations that would relate to or affect this area, the Commission has concluded that these are the only regulations that concern the Supplementary and Subject Matter Authorizations.

Disclosures Regarding the Proposed Actions/Fiscal Impact
The Commission has made the following initial determinations.
Mandate on local agencies or school districts: None.

Fiscal Impact
Costs to any local agency or school district which must be reimbursed in accordance with Government Code sections 17500 through 17630: None.

Cost or savings to any state agency: None.

Other non-discretionary costs or savings imposed upon local agencies: None.

Cost or savings in federal funding to the state: None.

Significant effect on housing costs: None.

Significant Statewide adverse economic impact directly affecting businesses, including the ability of California businesses to compete with businesses in other states:
The Commission is not aware of any Statewide adverse economic impact that directly affects businesses, including the ability of California businesses to compete with businesses in other states.

Cost Impacts on a Representative Private Person or Business:
The Commission is not aware of any cost impacts that a representative private person or business would necessarily incur in reasonable compliance with the proposed action.

Statement of the Results of the Economic Impact Assessment
In accordance with Government Code section 11346.3(b), the Commission has made the following assessments regarding the proposed regulations:

The Commission concludes that it is unlikely that the proposal will (1) create or eliminate any jobs, (2) create any new businesses, or (3) eliminate any existing businesses or result in the expansion of businesses currently doing business within the state. The proposed amendments to Title 5 of the California Code of Regulations clarifies all methods currently available to educators, pursuant to Education Code, to satisfy the subject matter requirements for a Supplementary or Subject Matter Authorization, including completion of corresponding CSET exams, combining CSET exams with coursework that has been reviewed by approved preparation programs, and allowing educators prepared and licensed in another state to request a Supplementary or Subject Matter Authorization based on a comparable authorization on a professional-level, out-of-state teaching license.

These new options provide applicants with pathways to use existing CSET exams or out-of-state licenses that correspond to a Supplementary or Subject Matter Authorization to add that authorization without investing additional time and expense to complete the previous coursework or degree requirements.

Small Business Determination
The proposed regulations will not affect small businesses. These regulations establish procedures for educators seeking to add Supplementary Authorizations and Subject Matter Authorizations to Single Subject and Multiple Subject teaching credentials, not small businesses.

Consideration of Alternatives
In accordance with Government Code section 11346.5, subdivision (a)(13), the Commission must determine that no reasonable alternative it considered or that has otherwise been identified and brought to its attention would be more effective in carrying out the purpose for

which the action is proposed, as effective and less burdensome to affected private persons than the proposed action, or more cost-effective to affected private persons and equally effective in implementing the statutory policy or other provision of law.

The Commission invites interested persons to present statements or arguments with respect to alternatives to the proposed regulations during the written comment period.

Contact Persons

Inquiries concerning the proposed rulemaking action may be directed to:

Christina Villanueva
Commission on Teacher Credentialing
651 Bannon Street, Suite 601
Sacramento, CA 95811
(916) 327-2967
Email: Regulations@ctc.ca.gov

The backup for these inquiries is:

Ann Harris
Commission on Teacher Credentialing
651 Bannon Street, Suite 601
Sacramento, CA 95811
(916) 327-2967
Email: Regulations@ctc.ca.gov

Availability of Statement of Reasons, Text of Proposed Regulations, and Rulemaking File

The Commission will make the entire rulemaking file available for inspection and copying throughout the rulemaking process at the Commission office at the above address. As of the date this notice is published in the Notice of Register, the rulemaking file consists of the Notice of Proposed Action, the proposed text of regulations, the Initial Statement of Reasons, Agenda item from Commission meeting, and the Economic and Fiscal Impact Statement. Please direct requests to inspect or copy the rulemaking file to the contact person listed above, Christina Villanueva.

Availability of Changed or Modified Text

After considering all timely and relevant comments received, the Commission may adopt the proposed regulations substantially as described in this notice. If the Commission makes modifications that are sufficiently related to the originally proposed text, it will make the modified text (with the changes clearly indicated) available to the public for at least 15 days before adopting the regulations as revised. Please direct requests for copies of any modified regulations to the contact person(s) listed above. If substantive modifications are made, the Commission will accept written comments on the modified regulations for the duration of the period of public availability.

Availability of Final Statement of Reasons
Upon its completion, the Commission will make copies of the Final Statement of Reasons available. Please direct requests for copies to the contact person(s) listed above.

Availability of Documents on the Internet
Copies of the Notice of Proposed Action, the Initial Statement of Reasons, and the text of the regulations with modifications highlighted, as well as the Final Statement of Reasons, when completed, and modified text and notices thereof, if any, may be accessed via the Commission's website at https://www.ctc.ca.gov/commission/notices/rulemaking/.

The Commission on Teacher Credentialing has illustrated changes to the original text in the following manner: text proposed to be added is displayed in underline type; text proposed to be deleted is displayed in ~~strikethrough~~ type.

Proposed Amendments to Title 5 CCR, Sections 80057.5, 80089, 80089.1, 80089.2, 80089.3, and 80089.4

§ 80057.5. Adding Supplementary Authorizations to Teaching Credentials Used Predominantly in Elementary Schools.

(a) The holder of a valid teaching credential specified in Education Code Section 44256(b) may have one or more of the subjects listed in subsection (c) added as a supplementary authorization. The candidate or an approved institution shall verify completion of one of the following ~~either (1) or (2) below~~:

(1) a collegiate major in a subject directly related to each subject from subsection (c) to be listed; ~~20 semester hours or 10 upper division semester hours of non-remedial collegiate course work in each subject from subsection (c) to be listed, or~~

(2) 20 semester hours, or equivalent quarter hours, or 10 upper division semester hours, or equivalent quarter hours, of non-remedial collegiate coursework in each subject from subsection (c) to be listed; ~~a collegiate major in a subject directly related to each subject from subsection (c) to be listed.~~ A "C" grade or above in any course used to meet the provisions of this section shall be required. Non-remedial coursework for the purposes of this section shall be defined as coursework that is applicable toward an associate's ~~bachelor's~~ degree or a higher degree at a regionally accredited college or university.

(3) Passage of subject matter examination or examinations, pursuant to Section 44281, as determined by the Commission to be aligned with a subject listed in Sections 80089.1 or 80089.2

(4) Combination of non-remedial collegiate coursework in a subject listed in Sections 80089.1 or 80089.2, specified in subsection (2), in addition to subject matter examination or examinations specified in subsection (3), verified by a Commission-approved program of professional preparation to satisfy the subject matter requirements.

(5) Possession of professional level teaching credential issued by a state or U.S. territory other than California with an authorization that aligns with a subject listed in Section 80089.1 or 80089.2.

(b) Candidates seeking supplementary authorization in any language other than English shall, in addition to requirements specified in subsection (a), submit verification of one of the following: ~~having either (1), (2), (3), or (4) below:~~

(1) passed the Language and Communication/Listening and Oral Communication section (Test II or III depending on the specific language) of the CSET: World Languages Examinations in the target language. Passing examination scores are valid for certification use for five years from the individual test date pursuant to Section 80071(b); or

(2) if no CSET: World Languages Examination is available in the target language, evidence of having passed an assessment performed by an approved organization pursuant to Education Code Section 44253.5(a) covering the integrated communication skills of listening, speaking, reading and writing in the target language; or

(3) possession of a three-year or higher degree from a foreign institution in which all instruction was delivered in the target language. The foreign institution must be equivalent in status to a regionally-accredited institution of higher education in the United States; or

(4) passed an assessment covering the integrated communication skills of listening, speaking, reading and writing administered by a California college or university as a part of its Commission-approved bilingual authorization program in the target language.

(c) The following subjects may be added as supplementary authorizations to a valid teaching credential specified in Education Code Section 44256(b):

(1) Agriculture, including at least one course in each of the following areas: animal science, plant science, and agricultural mechanics;

(2) Art, including at least one course in each of the following areas: studio practice, ~~drawing and painting,~~ visual culture and art history, ~~art history or appreciation,~~ and artistic processes, inquiry, and critique; ~~crafts;~~

(3) Business, including at least one course in each of the following areas: business management, business marketing or introduction to business, computer concepts and applications, economics, business communications or business English, and accounting;

(4) Computer Science, including at least one course in each of the following areas: computational thinking, computing practice and programming, computer and communications devices, and impacts of computing. The course of study must cover all content areas but impacts of computing may be met within a single course also used to meet one of the other required content areas;

(5) Dance, including at least one course in each of the following areas: dance technique ~~jazz dance~~, dance history ~~contemporary dance~~, and dance theory;

(6) English, including at least one course in each of the following areas: grammar or language structure, composition, and literature;

~~(7) A Language Other Than English (Specify), including at least one course in the language covering each of the following areas: grammar, composition, conversation, and literature;~~

(7~~8~~) Health Science, including at least one course in each of the following areas: substance abuse (including alcohol, drug, and tobacco), family life education (including human sexuality, HIV/AIDS, and sexually transmitted diseases), nutrition, comprehensive school health systems or programs, and health education theory, behavior, or foundations;

(8~~9~~) Home Economics, including at least one course in each of the following areas: food and nutrition, clothing, child development, and family life and parenting;

(9~~10~~) Industrial Arts, including at least one course in each of the following areas: drafting or graphic arts, woods or metals, and electricity or electronics;

(10~~11~~) Mathematics, including at least one course in each of the following areas (all course work shall be at least at a level for which intermediate algebra is a prerequisite):

algebra, geometry, and development of the real number system or introduction to mathematics; or three courses in calculus or other mathematics courses for which algebra and geometry are prerequisites;

(11~~12~~) Music, including at least one course in each of the following areas: vocal music, instrumental music, music history or appreciation, and music theory;

(12~~13~~) Physical Education, including at least one course in each of the following areas: team sports and games, fundamental and creative movement skills (such as dance and gymnastics), human movement, motor development, and/or motor learning, and individual, dual, nontraditional and global sports and games (such as aquatics, conditioning, and archery);

(13~~14~~) Science, including at least one course in each of the following areas: biological sciences, chemistry, geosciences, and physics;

(14~~15~~) Social Science, including at least one course in each of the following areas: United States history, California history, world history, geography, and United States government; ~~and~~

(15~~16~~) Theater, including at least one course in each of the following areas: acting, directing, and stagecraft~~.~~; and

(16~~17~~) World Language (Specify), including at least one course in the language covering each of the following areas: grammar, composition, conversation, and literature.

(d) Home Economics Supplementary Authorizations must include a laboratory component in one of the listed subject areas. The course of study must cover both subject areas of food and nutrition but a single course may be used to meet the requirement. The course of study must cover both subject areas of family life and parenting, but a single course may be used to meet the requirement.

(e) Science Supplementary Authorizations ~~A~~authorized by subdivision (c)(13~~4~~) shall include a one-year sequence of courses in at least two of the listed subject areas. At least one course must include a laboratory component.

(f) The course of study for the Computer Science Supplementary Authorization authorized by subdivision (c)(4) must include coursework aligned with the following definitions:

(1) Computational thinking -includes solving problems and designing systems, using fundamental computing concepts such as decomposition, data representation, generalization/abstraction, and algorithms.

(2) Computing practice and programming -includes expertise in at least one block-based, visual (drag-and-drop) programming language, or a modern, high-level programming language.

(3) Computer and communications devices -covers the major components and functions of digital devices and the computing systems they compose.

(4) Impacts of computing: including the social, ethical, and legal issues and impacts of computing, as well as the contributions of computer science to current and future innovations in sciences, humanities, the arts, and commerce. These topics may be included within any of the courses covering content areas (f)(1) through (f)(3).

(g) A subject specified in subsection (c) and listed on a teaching credential specified in Education Code Section 44256(b) as a supplementary authorization shall authorize the teaching of courses related to that subject in departmentalized classes in grades 9 and below.

(h) The holder of a Supplementary Authorization in English shall be authorized to teach drama and theater arts if the document was first issued prior to January 1, 2022.
(i) The holder of a Supplementary Authorization in Physical Education shall be authorized to teach dance if the document was first issued prior to January 1, 2022.
(j) The following definitions apply to the course of study for the Art Supplementary Authorization provided in subsection (c)(2):

(1) Studio practice may include technical and conceptual development of original artworks using two-dimensional, three-dimensional, or digital media.
(2) Visual culture and art history may include the study of historical and contemporary art within cultural, aesthetic, and critical frameworks.
(3) Artistic processes, inquiry, and critique may include conceptual, procedural, and reflective dimensions of artmaking, including ideation, iteration, critique, and the use of discipline-based vocabulary and frameworks for refining creative work.

(k) The following definitions apply to the course of study for the Dance Supplementary Authorization provided in subsection (c)(5):

(1) Dance technique often takes place in a studio environment and develops technical proficiency, movement vocabulary, alignment, strength, or expressive skills across various dance styles while fostering performance practices and artistic growth.
(2) Dance theory involves critical and cultural analysis of dance as an art form, including investigation of historical contexts, aesthetic frameworks, movement and performance analysis, or socio-cultural influences on dance practices. Dance theory may include the development of scholarly research skills, the critique of dance works and theories, or an understanding of interdisciplinary perspectives.
(3) Dance history surveys the evolution of dance across periods and cultures, highlighting major styles, figures, works, or socio-cultural contexts, and may include cultural analysis of how historical, political, or cultural trends influence the development and meaning of dance.

Credits
NOTE: Authority cited: Section, 44225(b), and 44259 Education Code. Reference: Sections 44256(b) and 44257 Education Code.

§ 80089. Adding Supplementary Authorizations to Teaching Credentials Used Predominantly in Secondary Schools

(a) The holder of a valid teaching credential specified in Education Code Section 44256(a) may have one or more of the subjects listed in Sections 80089.1 and 80089.2, added as a supplementary authorization. The candidate or an approved institution shall verify completion of one of the following ~~either (1) or (2), below~~:

(1) a collegiate major in a subject directly related to each subject listed in Sections 80089.1 or 80089.2; ~~20 semester hours or 10 upper division semester hours of non-remedial collegiate coursework in a subject listed in Sections 80089.1 or 80089.2, or~~
(2) 20 semester hours, or equivalent quarter hours, or 10 upper division semester hours, or equivalent quarter hours, of non-remedial collegiate coursework in a subject listed in Sections 80089.1 or 80089.2; ~~a collegiate major in a subject directly related to each~~

~~subject listed in Sections 80089.1 or 80089.2.~~ A "C" grade or above in any course used to meet provisions of this section shall be required. Non-remedial coursework for the purposes of this section shall be defined as coursework that is applicable toward an associate's ~~bachelor's~~ degree or a higher degree at a regionally accredited college or university.

(3) Passage of subject matter examination or examinations, pursuant to Section 44281, as determined by the Commission to be aligned with a subject listed in Sections 80089.1 or 80089.2

(4) Combination of non-remedial collegiate coursework in a subject listed in Sections 80089.1 or 80089.2, specified in subsection (2), in addition to subject matter examination or examinations specified in subsection (3) verified by a Commission-approved program of professional preparation to satisfy the subject matter requirements.

(5) Possession of professional level teaching credential issued by a state or U.S. territory other than California with an authorization that aligns with a subject listed in Section 80089.1 or 80089.2.

(b) Authorization.

(1) A supplementary authorization added under the provisions of Section 80089.1 authorizes the holder to teach that subject at any grade level; preschool, kindergarten, grades 1-12, or in classes organized primarily for adults;

(2) A supplementary authorization added under the provisions of Section 80089.2 authorizes the holder to teach at any grade level (preschool, kindergarten, grades 1-12, or in classes organized primarily for adults) only the subject matter content typically included for that subject in curriculum guidelines and textbooks for study in grades 9 and below.

Credits

Note: Authority cited: Section 44225 and 44259, Education Code. Reference: Sections 44256, and 44349, Education Code.

§ 80089.1. Subjects Added as Supplementary Authorizations (Specific Subjects)

(a) The following listed subjects may be added as supplementary authorizations to a valid teaching credential specified in Education Code Section 44256(a):

Accounting including finance
Agricultural mechanics
Animal science
Anthropology
Auto mechanics
Biological Sciences
Chemistry
Child development (home economics)
Clothing and textiles (home economics)
Comparative political systems and international relations
Computer science

Consumer education (home economics)
Crafts, including jewelry and ceramics (art)
Dance
Drafting
Economics
Economic and consumer education
Electronics
English Composition
Family life and parenting (home economics)
Family life education including drug, alcohol and tobacco use prevention (health science)
Food and nutrition (home economics)
Forestry and horticulture
Geography
Geosciences
Graphic Arts
Industrial crafts and plastics
Instrumental music
Interior design (home economics)
Journalism
Literature
Marketing and/~~/~~entrepreneurship
Metals (industrial arts)
Office technologies including word processing and business communications
Ornamental horticulture
Painting and drawing
Photography
Physics
Plant science
Plastics (industrial arts)
Psychology
Sociology
Speech
Theater
US Government and US Civics
US History and California History
Vocal Music
Woods (industrial arts)
World History

(b) A supplementary authorization in a specific subject of Science may be added to a valid teaching credential specified in Education Code Section 44256(a). The course of study for Biological Sciences or Chemistry or Geosciences or Physics must include each of the components for that area. One of the courses must include a laboratory component.

(1) Biological Sciences, including: Molecular and Cellular Biology, Biology of Organisms, and Evolution.

(2) Chemistry, including: Structure and Stability, and Chemical Reactions.

(3) Geosciences, including: Astronomy, Geology, Meteorology and Oceanography.
(4) Physics, including: Energy - Mechanics, Energy - Heat Energy - Electricity and Magnetism, Wave Motion and Atomic and Nuclear Physics.

(c) A supplementary authorization in each of the specific subjects of Child development (home economics), Clothing and textiles (home economics), Food and nutrition (home economics), and Interior design (home economics) must include a laboratory component.

(d) A supplementary authorization in the subject of Family life education including drug, alcohol, and tobacco use prevention (health science) must include the following components: sexually transmitted disease including HIV/AIDS, human development and human sexuality, parenting education, violence prevention, and drug, alcohol and tobacco use prevention and cessation.

(e) A supplementary authorization in the specific subject of Computer Science may be added to a valid teaching credential specified in Education Code Section 44256(a). The course of study must include coursework covering the following components:

(1) Computer programming: including expertise in at least one modern, high-level programming language;
(2) Data structures and algorithms: data representation, abstraction, searching and sorting in the context of solving problems using programming and computational tools;
(3) Digital devices, systems and networks: covers devices and the systems they compose, including the concepts and abstractions that enable stand-alone, networked, and mobile digital devices to operate and communicate;
(4) Software design: the process of planning, engineering and implementing a software system to solve a problem, typically using both a design and a programming methodology. Programming methodologies that facilitate design include object-oriented and functional approaches; and
(5) Impacts of computing: including the social, ethical, and legal issues and impacts of computing, as well as the contributions of computer science to current and future innovations in sciences, humanities, the arts, and commerce. These topics may be included within any of the courses covering content areas (e)(1) through (e)(4).

Credits

NOTE: Authority cited: Section 44225, Education Code. Reference: Sections 44256, 44257 and 44349, Education Code.

§ 80089.2. Subjects Added as Introductory Supplementary Authorizations.

(a) Candidates seeking supplementary authorization in any language other than English shall, in addition to the requirements specified in Section 80089, submit verification of one of the following ~~having either (1), (2), (3), or (4) below~~:

(1) passed the Language and Communication/Listening and Oral Communication section (Test II or III depending on the specific language) of the CSET: World Languages Examinations in the target language. Passing examination scores are valid for certification use for five years from the individual test date pursuant to Section 80071(b); or

(2) if no CSET: World Languages Examination is available in the target language, evidence of having passed an assessment performed by an approved organization pursuant to Education Code Section 44253.5(a) covering the integrated communication skills of listening, speaking, reading and writing in the target language; or

(3) possession of a three-year or higher degree from a foreign institution in which all instruction was delivered in the target language. The foreign institution must be equivalent in status to a regionally-accredited institution of higher education in the United States; or

(4) passed an assessment covering the integrated communication skills of listening, speaking, reading and writing administered by a California college or university as a part of its Commission-approved bilingual authorization program in the target language.

(b) The following listed subjects may be added as introductory supplementary authorizations to a valid teaching credential specified in Education Code Section 44256(a).

(1) Introductory Agriculture, including at least one course in each of the following areas: animal science, plant science, and agricultural mechanics;

(2) Introductory Art, including at least one course in each of the following areas: studio practice, ~~drawing and painting~~, visual culture and art history, ~~art history or appreciation~~, and artistic processes, inquiry, and critique; ~~crafts;~~

(3) Introductory Business, including at least one course in each of the following areas: business management, business marketing or introduction to business, computer concepts and applications, economics, business communications or business English, and accounting;

(4) Introductory Computer Science, including at least one course in each of the following areas: computational thinking, computing practice and programming, computer and communications devices, and the impacts of computing. The course of study must cover all content areas but impacts of computing may be met within a single course also used to meet one of the other required content areas;

(5) Introductory Dance, including at least one course in each of the following areas: dance technique ~~jazz dance~~, dance history ~~contemporary dance~~, and dance theory;

(6) Introductory English, including at least one course in each of the following areas: composition, literature, and grammar or language structure;

~~(7) Introductory Language Other Than English (Specify), including at least one course in the language covering each of the following areas: grammar, composition, conversation, and literature;~~

(7~~8~~) Introductory Health Sciences, including at least one course in each of the following areas: substance abuse (including alcohol, drug, and tobacco), family life education (including human sexuality, HIV/AIDS, and sexually transmitted diseases), nutrition, comprehensive school health systems or programs, and health education theory, behavior, or foundations;

(8~~9~~) Introductory Home Economics, including at least one course in each of the following areas: food and nutrition, clothing, child development, and family life and parenting;

(9~~10~~) Introductory Industrial Arts, including at least one course in each of the following areas: drafting or graphic arts, woods or metals, and electricity or electronics;

(10~~11~~) Introductory Mathematics, including at least one course in each of the following areas (all course work shall be at least at a level for which intermediate algebra is a prerequisite): college algebra, geometry, and development of the real number system or introduction to mathematics; or three courses in calculus or other mathematics courses for which algebra and geometry are prerequisites;

(11~~12~~) Introductory Music, including at least one course in each of the following areas: vocal music, instrumental music, music history or appreciation, and music theory;

(12~~13~~) Introductory Physical Education, including at least one course in each of the following areas: team sports and games; fundamental and creative movement skills (such as dance and gymnastics); human movement, motor development, and/or motor learning; and individual, dual, nontraditional and global sports and games (such as aquatics, conditioning, and archery);

(13~~14~~) Introductory Science, including at least one course in each of the following areas: biological sciences, chemistry, geosciences, and physics;

(14~~15~~) Introductory Social Science, including at least one course in each of the following areas: United States history, California history, world history, geography, and United States government; and

(15~~16~~) Introductory Theater, including at least one course in each of the following areas: acting, directing, and stagecraft.

(16) World Language (Specify), including at least one course in the language covering each of the following areas: grammar, composition, conversation, and literature;

(c) Introductory Home Economics Supplementary Authorizations must include a laboratory component in one of the listed subject areas. The course of study must cover both subject areas of food and nutrition but a single course may be used to meet the requirement. The course of study must cover both subject areas of family life and parenting, but a single course may be used to meet the requirement.

(d) Introductory Science Supplementary Authorizations Authorized by 80089.2(b)(1~~4~~3) shall include a one year sequence of courses in at least two of the listed subject areas. At least one course must include a laboratory component.

(e) The course of study for the Introductory Computer Science Supplementary Authorization must include coursework aligned with the following definitions:

(1) Computational thinking -includes solving problems and designing systems, using fundamental computing concepts such as decomposition, data representation, generalization/abstraction, and algorithms.

(2) Computing practice and programming -includes expertise in at least one block-based, visual (drag-and-drop) programming language, or a modern, high-level programming language.

(3) Computer and communications devices -covers the major components and functions of digital devices and the computing systems they compose.

(4) Impacts of computing: including the social, ethical, and legal issues and impacts of computing, as well as the contributions of computer science to current and future innovations in sciences, humanities, the arts, and commerce. These topics may be included within any of the courses covering content areas (e)(1) through (e)(3).

(f) The holder of a Supplementary Authorization in Introductory English shall be authorized to teach drama and theater arts if the document was first issued prior to January 1, 2022.

(g) The holder of a Supplementary Authorization in Introductory Physical Education shall be authorized to teach dance if the document was first issued prior to January 1, 2022.
(h) The following definitions apply to the course of study for the Introductory Art Supplementary Authorization provided in subsection (b)(2):

(1) Studio practice may include technical and conceptual development of original artworks using two-dimensional, three-dimensional, or digital media.
(2) Visual culture and art history may include the study of historical and contemporary art within cultural, aesthetic, and critical frameworks.
(3) Artistic processes, inquiry, and critique may include conceptual, procedural, and reflective dimensions of artmaking, including ideation, iteration, critique, and the use of discipline-based vocabulary and frameworks for refining creative work.

(i) The following definitions apply to the course of study for the Introductory Dance Supplementary Authorization provided in subsection (b)(5):

(1) Dance technique often takes place in a studio environment and develops technical proficiency, movement vocabulary, alignment, strength, or expressive skills across various dance styles while fostering performance practices and artistic growth.
(2) Dance theory involves critical and cultural analysis of dance as an art form, including investigation of historical contexts, aesthetic frameworks, movement and performance analysis, or socio-cultural influences on dance practices. Dance theory may include the development of scholarly research skills, the critique of dance works and theories, or an understanding of interdisciplinary perspectives.
(3) Dance history surveys the evolution of dance across periods and cultures, highlighting major styles, figures, works, or socio-cultural contexts, and may include cultural analysis of how historical, political, or cultural trends influence the development and meaning of dance.

Credits
NOTE: Authority cited: Section 44225, Education Code. Reference: Sections 44256, 44257, and 44349, Education Code.

§ 80089.3. Introductory Subject Matter Authorizations.

(a) The holder of a valid teaching credential specified in Education Code Section 44256(a) and (b) may have one or more of the subjects listed in subsection (b) added as an introductory subject matter authorization. Equivalent quarter hours may be used to meet the semester hour requirement. The candidate shall verify completion of one of the following ~~either (1) or (2), below~~:

(1) a collegiate major from a regionally accredited college or university in a subject or in a subject directly related to each subject from subsection (b) to be listed;~~, or~~
(2) 32 semester or 48 quarter hours of non-remedial collegiate coursework in a subject listed in subsection (b). Included within the 32 semester or 48 quarter hours is a minimum of three semester or four quarter hours in each of the specific content areas listed for the subject in subsection (b) except for Science which requires a minimum of six semester or eight quarter hours in each of the specific content areas listed. A grade of "C" or above in any course used to meet the provisions of this subsection shall be

required. Non-remedial coursework for the purpose of this section shall be defined as coursework that is applicable toward an associate's ~~bachelor's~~ degree or a higher degree at a regionally accredited college or university.

(3) Passage of subject matter examination or examinations, pursuant to Section 44281, as determined by the Commission to be aligned with a subject listed in subsection (b)

(4) Combination of non-remedial collegiate coursework in a subject listed in subsection (b), as specified in subsection (a)(2), in addition to subject matter examination or examinations specified in subsection (a)(3), verified by a Commission-approved program of professional preparation to satisfy the subject matter requirements.

(5) Possession of professional level teaching credential issued by a state or U.S. territory other than California with an authorization that aligns with a subject listed in subsection (b).

(b) The following subjects may be added as introductory subject matter authorizations to a valid teaching credential specified in Education Code Section 44256(a) and (b):

(1) Art, with the content areas of studio practice, visual culture and art history, and artistic processes, inquiry, and critique; ~~art history including aesthetics and appreciation, two-dimensional art including drawing, painting, and printmaking, three-dimensional art including sculpture and ceramics, and photography/computer-generated imagery;~~

(2) Dance, with content areas of dance technique ~~jazz dance~~, dance history ~~contemporary dance~~, and dance theory;

(3) English with the content areas of grammar or language structure, advanced composition, speech, and literature;

~~(4) A Language Other Than English (specify) with the content areas of grammar, composition, culture, conversation, and literature;~~

(4~~5~~) Mathematics with the content areas of algebra, advanced algebra, geometry, probability or statistics, and development of the real number system or introduction to mathematics;

(5~~6~~) Music with the content areas of vocal music including the analysis of repertoire and literature appreciation for developing musicians, instrumental music including the analysis of repertoire and literature appreciation for developing musicians, aural musicianship, keyboard, music history including music appreciation, world music, conducting, and music theory;

(6~~7~~) Science with the content areas of biological sciences, chemistry, geosciences, and physics;

(7~~8~~) Social Science with the content areas of United States history, California history, world history, world civilization or world cultures, physical geography, and United States government; ~~and~~

(8~~9~~) Theater with the content areas of acting, directing, and stagecraft~~.~~; and

(9) World Language (specify) with the content areas of grammar, composition, culture, conversation, and literature.

(c) A subject specified in subsection (b) as an introductory subject matter authorization authorizes the holder to teach only the subject matter content typically included for that subject in curriculum guidelines and textbooks approved for study in grades 9 and below to students in preschool, kindergarten, grades 1-12, or in classes organized primarily for adults.

(d) The following definitions apply to the course of study for the Art Introductory Subject Matter Authorization provided in subsection (b)(1):

(1) Studio practice may include technical and conceptual development of original artworks using two-dimensional, three-dimensional, or digital media.

(2) Visual culture and art history may include the study of historical and contemporary art within cultural, aesthetic, and critical frameworks.

(3) Artistic processes, inquiry, and critique may include conceptual, procedural, and reflective dimensions of artmaking, including ideation, iteration, critique, and the use of discipline-based vocabulary and frameworks for refining creative work.

(e) The following definitions apply to the course of study for the Dance Introductory Subject Matter Authorization provided in subsection (b)(2):

(1) Dance technique often takes place in a studio environment and develops technical proficiency, movement vocabulary, alignment, strength, or expressive skills across various dance styles while fostering performance practices and artistic growth.

(2) Dance theory involves critical and cultural analysis of dance as an art form, including investigation of historical contexts, aesthetic frameworks, movement and performance analysis, or socio-cultural influences on dance practices. Dance theory may include the development of scholarly research skills, the critique of dance works and theories, or an understanding of interdisciplinary perspectives.

(3) Dance history surveys the evolution of dance across periods and cultures, highlighting major styles, figures, works, or socio-cultural contexts, and may include cultural analysis of how historical, political, or cultural trends influence the development and meaning of dance.

Credits

NOTE: Authority cited: Sections 12001 and 44225, and 44259, Education Code. Reference: Sections 44225(e), 44256, 44257, and 44349, Education Code; and 20 U.S.C. Sections 6319(a) and 7801(23).

§ 80089.4. Specific Subject Matter Authorizations.

(a) The holder of a valid teaching credential specified in Education Code Section 44256(a) and (b) may have one or more of the subjects listed in subsection (b) added as a specific subject matter authorization. Equivalent quarter hours may be used to meet the semester hour requirement. The candidate shall verify completion of one of the following ~~either (1), or (2), below~~:

(1) a collegiate major from a regionally accredited college or university in a subject directly related to each subject from subsection (b) to be listed, or

(2) 32 semester or 48 quarter hours of non-remedial collegiate coursework directly related to the requested subject listed in subsection (b) except for history which requires a minimum of 16 semester units in both world history and U. S. history. A grade of “C” or above in any course used to meet the provisions of this subsection shall be required. Non-remedial coursework for the purposes of this section shall be defined as coursework that is applicable toward an associate’s ~~bachelor's~~ degree or a higher degree at a regionally accredited college or university.

(3) Passage of subject matter examination or examinations, pursuant to Section 44281, as determined by the Commission to be aligned with a subject listed in subsection (b)
(4) Combination of non-remedial collegiate coursework in a subject listed in subsection (b), as specified in subsection (a)(2), in addition to subject matter examination or examinations specified in subsection (a)(3), verified by a Commission-approved program of professional preparation to satisfy the subject matter requirements.
(5) Possession of professional level teaching credential issued by a state or U.S. territory other than California with an authorization that aligns with a subject listed in subsection (b).

(b) The following subjects may be added as a specific subject matter authorization to a valid teaching credential specified in Education Code Section 44256(a) and (b):
Art History/Appreciation
Biological Sciences
Chemistry
Civics/Government
Dance
Drama/Theatre
Economics (social science)
English Composition
Geography
Geosciences
History
Instrumental Music
Literature
Photography
Physics
Plant Science
Three-Dimensional Art
Two-Dimensional Art
Vocal Music
(c) A subject specified in subsection (b) as a specific subject matter authorization authorizes the holder to teach courses in the specific subject in departmentalized classes in grades preschool and K-12 or in classes organized primarily for adults.

Credits
NOTE: Authority cited: Sections 12001, ~~and~~ 44225 and 44259, Education Code. Reference: Sections 44225(e), and 44256, Education Code; and 20 U.S.C. Sections 6319(a) and 7801(23).