

CODED CORRESPONDENCE

DATE:

April 4, 2025

TO:

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

NUMBER:

25-03

FROM:

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SUBJECT: Assembly Bill 2473: Expanded Options for Adding Supplementary and Subject Matter Authorizations to Existing General Education Credentials

Summary:

Assembly Bill (AB) 2473 (Chap. 831, Stats 2024), which took effect September 28, 2024, provided new pathways for educators to add Introductory and/or Specific Supplementary Authorizations and Subject Matter Authorizations to Single Subject and Multiple Subject teaching credentials.

Key Provisions:

Prior to the passage of this bill, 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. AB 2473 expanded the pathways to meet the academic requirements for Supplementary and Subject Matter Authorizations. Educators may now use one of the following methods:

- 1) pass the corresponding California Subject Examinations for Teachers (CSET) examinations;
- 2) combination of CSET exams with coursework that has been reviewed by an approved preparation program; or

3) 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.

A summary of changes to requirements to each authorization type are included in Table 1 below. Additionally, <u>Appendix A</u> provides details on each subject and their specific requirements.

Table 1: Previous and Current Requirements

Authorization Type	Previous Requirements	Additional Requirements
Introductory Supplementary Authorization	 20 semester units (10 if upper-division units) in the subject Degree major directly related to the subject 	 Completion of all corresponding CSET exams Combination of CSET exams and coursework Possession of comparable out-of-state license
Specific Supplementary Authorization	 20 semester units (10 if upper-division units) in the subject Degree major directly related to the subject 	Completion of all corresponding CSET exams • Possession of comparable out-of-state license
Introductory Subject Matter Authorization	 32 semester units of coursework in the subject Degree major in a directly related subject 	 Completion of all corresponding CSET exams Combination of CSET exams and coursework Possession of comparable out-of-state license
Specific Subject Matter Authorization	 32 semester units of coursework in the subject Degree major in a directly related subject 	 Completion of all corresponding CSET exam for select subjects Possession of comparable out-of-state license

Note Individuals must hold a Single or Multiple Subject Teaching Credential or apply for one in tandem with one of these authorizations in order to be considered eligible to earn these authorizations.

New Options

Out of State Licensure

In most cases, a holder of a professional level out-of-state license will be able to earn a <u>full Single Subject Teaching credential</u> in California. However, some out-of-state licenses are not fully transferable due to lack of alignment with either 1) the statutory subject area or, 2) grade level. The expanded option made available by AB 2473 gives individuals that hold an out-of-state license an opportunity to transfer it to a Supplementary or Subject Matter Authorization

instead. Whenever an authorization listed on an out-of-state license aligns with a Supplementary or Subject Matter Authorization, but not one of the California statutory subject areas (listed on the Commission's website), the applicant may request the appropriate Supplementary or Subject Matter authorization.

The following examples illustrate how various out-of-state teaching licenses align with and transfer to California teaching credentials.

- An educator holds an out-of-state license in Elementary Education (Self-Contained General Education) and also holds a Middle Grades Mathematics authorization through grade 8. The mathematics authorization in middle grades authorizes departmentalized instruction; therefore, it can be used to meet subject matter competence to add an Introductory Supplementary Authorization in Mathematics to the Multiple Subject Credential.
- An educator holds an out-of-state license in Secondary Education General Science grades 9-12 and also holds a Middle Grades Mathematics authorization through grade 8. The educator would be eligible to add an Introductory Supplementary Authorization in Mathematics to a Single Subject Credential in Foundational-Level General Science.

CSET Examinations

With the additional options to qualify for a Supplementary or Subject Matter Authorization, individuals may take specific CSET exams to expand their authorizations. A detailed breakdown of the required exam(s) necessary to qualify for a Supplementary or Subject Matter Authorization can be found in the appendix of this document. While Introductory Supplementary Authorizations require a full series of exams to qualify, some specific authorizations require a CSET exam in which the specific subject is covered within the domain. The domains represent a summary of the full range of the content adopted by the State Board of Education that comprise the K-12 student content standards, within each of the individual content areas.

Not all authorizations have a corresponding CSET examination, so a careful review of the appendix is encouraged. Additionally, the CSET examination titles, test content information, and passing scores are listed on the Commission's <u>Subject Matter Competency by Exam</u> <u>webpage</u>. Additional information can also be found on leaflet <u>CL-674S</u> and in <u>Appendix A.</u>

Educators who want to obtain the full Single Subject credential must pass all the CSET subtests in the subject area requested in addition to meeting all other requirements described in leaflet CL-621A.

Combination of Coursework and Examinations

The Commission does not provide evaluations for educators who are using a combination of coursework and CSET examinations to meet subject matter requirements. Those interested in this new option must have their coursework and examination results evaluated by a Commission-approved program of professional preparation. Applicants will need to contact an approved program to request a review of their coursework and obtain an official letter verifying

subject matter has been met. The official letter will need to be included with the application for the Supplementary or Subject Matter Authorization.

The letter must be issued by the Commission-approved program that completed the applicant's coursework evaluation. It must specify the type of authorization the applicant is seeking and verify that the individual satisfied subject matter competence requirements for that authorization. The Commission's <u>Approved Institutions and Programs</u> dashboard may be used to locate approved programs for this purpose.

Programs must review the domains covered by the CSET exam and ensure that any remaining subject matter requirements are met, whether through the examination, through coursework, or through a combination of both. Programs are encouraged to use the <u>Subject Matter Authorization Guidebook</u> and <u>Supplementary Authorization Guidebook</u> when completing their review, as there are specific subject criteria for most subjects. For example, an Introductory Math authorization requires proficiency in Probability or Statistics for issuance. Reviewing these resources before evaluating completed coursework and/or examination results ensures that educators demonstrate subject matter competency across all required areas.

How to Apply

Submitting a Paper Application for a Supplementary or Subject Matter Authorization
If an educator has **already been issued** a Single Subject or Multiple Subject teaching credential and are adding a Supplementary and/or Subject Matter Authorization, the following must be submitted to the Commission by **mail:**

- 1. Completed application (form 41-4)
- Official transcripts verifying qualifying degree major or coursework completed, copy of out-of-state teaching credential, CSET Exam score report, or an official letterhead verifying subject matter from a program if using combination of CSET exams and coursework.
- 3. Application processing fee

Submitting an Online Application for a Supplementary or Subject Matter Authorization. If an educator has not been issued a Single Subject or Multiple Subject teaching credential and will be applying simultaneously for the credential and Supplementary and/or Subject Matter Authorization, an online application must be submitted to the Commission.

Educators who wish to submit direct online Multiple Subject or Single Subject credential applications based on out-of-state preparation must first create an account in CTC Online and log in to access the application. Instructions on how to create an account can be found on the Create Account webpage. Educators can also find instructions on how to submit the application at the Direct Application Submission webpage.

When completing the online direct submission process, all required fields must be completed: General Application Category, Type of Credential/Permit Requested, Authorization/Subject, and

Preparation Route. Each subsequent field will not be visible until the field before it has been completed, at which point it will be generated automatically.

Request Single or Multiple Subject Teaching Credential for Type of Credential/Permit
Requested and More Than One Subject for Authorization/Subject, an additional text field
will be generated. Applicants MUST type in both the full subject and Supplementary or
Subject Matter Authorization they are requesting in this text field. For example, "Single
Subject in Dance and Subject Matter Authorization in Introductory English"

For the *Preparation Route* field, applicants must select the route that best applies to their experience. Educators who are applying on the basis of out-of-state preparation may fall under two routes:

- 1. Route 1: Applicants with less than two years of out-of-state teaching experience
- 2. Route 2: Applicants with two or more years of out-of-state teaching experience

During the direct submission process, educators will have the opportunity to upload all supporting documentation that is required for the credential.

Credential Considerations

Supplementary and Subject Matter Authorizations are not full authorizations, as they are meant to be an enhancement to the educator's existing preparation and do not require the same amount of preparation for issuance. These authorizations are limited in the following ways:

- Introductory Supplementary Authorization added to a Single Subject teaching credential: authorizes instruction of curriculum designed for students in grade 9 and below.
- Supplementary Authorization added to a Multiple Subject teaching credential: authorizes instruction to students in grade 9 and below.
- Specific Supplementary Authorization added to a Single Subject teaching credential: authorizes instruction at all grade levels but is limited in scope to the specific subject listed on the authorization.
- Subject Matter authorization added to a Single Subject or Multiple Subject teaching credential: authorizes instruction of curriculum designed for students in grade 9 and below
- Introductory Subject Matter Authorization added to a Single Subject or Multiple Subject teaching credential: authorizes instruction of curriculum designed for students in grade 9 and below.

The dependence of this authorization on a full document being issued means two things. First, educators must hold a Multiple or Single Subject credential or be applying for a Multiple or Single Subject credential in tandem with an application requesting a Supplementary or Subject Matter authorization in order for it to be issued. Supplementary and Subject Matter authorizations cannot be issued as standalone authorizations and credentials cannot be issued with one of these alone.

Second, applicants and the Local Education Agencies (LEAs) that assist them should always review qualifications and ensure that the applicant is not otherwise qualified for a full credential authorization prior to applying. To do so, current credential holders should review leaflet CL-621A, Adding a Teaching or Content Area to Multiple and Single Subject Credentials, to ensure that they do not qualify for a full authorization. The primary difference between earning a full authorization and one of the more limited Supplementary or Subject Matter authorizations is a three-semester-unit methodology course directly related to teaching in a self-contained classroom or departmentalized setting in the specific content area sought.

Incoming out-of-state or out-of-country applicants should also ensure they are not otherwise qualified for a full credential prior to applying for a more limited Supplementary or Subject Matter authorization. Applicants can apply for the Supplementary or Subject Matter authorization in tandem with the full authorization.

Impacts

Applicants

Authorizations can be added to an existing Multiple Subject or Single Subject Credential. Outof-state applicants who are initially applying for a Multiple Subject or Single Subject Teaching Credential may apply for an Introductory Supplementary Authorization or Subject Matter Authorization at the same time.

The new options made available by AB 2473 provide applicants with pathways to use existing CSET examinations that correspond to an introductory authorization to add that authorization without investing additional time and expense to complete 10 semester units of upper division coursework or 20 semester units of combined lower division and upper division coursework. They also provide a transition pathway to later obtain a full Single Subject Teaching Credential in a statutory subject authorization after completing the remaining requirements to add the Single Subject authorization as required under Title 5, California Code of Regulations §80499.

Applicants using a combination of coursework and CSET examinations to meet the requirements must have their subject matter verified by a Commission-approved program of professional preparation. Applicants will need to contact an approved program to request a review of their coursework and obtain an official letter verifying subject matter has been met.

Local Education Agencies

The new provisions authorized by AB 2473 allow approved preparation programs to review coursework for subject matter competence requirements to satisfy the requirements for a Supplementary or Subject Matter Authorization. Local Education Agencies that sponsor an approved preparation program and who consent to provide such coursework reviews may submit official subject matter verification letters to applicants who wish to add introductory content to existing general education credentials.

Program Sponsors

The new provisions authorized by AB 2473 allow approved preparation programs to review coursework for subject matter competence requirements to be used to satisfy the requirements for a Supplementary or Subject Matter Authorization. Program sponsors that consent to provide such coursework reviews may submit official verification letters to applicants who wish to add introductory content to existing general education credentials.

Background

In 2021, the passage of AB 130 (Chap. 44, Stats. of 2021) established several additional pathways to meet subject matter competence requirements, as follows:

- Passage of CSET exams;
- Acceptable degree major;
- Coursework;
- Combination of coursework review and CSET exams;
- Subject Matter Program; and
- Out-of-State Licensure.

These changes only applied to full credentials, including Single and Multiple Subject credentials. Limited added authorizations like Supplementary and Subject Matter Authorizations remained confined to coursework to satisfy academic requirements. The passage of AB 2473 expands and aligns the subject matter requirements for Supplementary and Subject Matter Authorizations with the changes enacted by AB 130.

Important Dates

AB 2473 became effective 9/28/2024 (Urgency Clause)

Resources

AB 2473

California Education Code §§44225, 44256, 44257, and 44349

References

Supplementary Authorizations-Single Subjects (CL-603)

Supplementary Authorizations (CL-629)

Subject Matter Authorization (CL-852)

Subject Matter Competence by Exam webpage

Appendix A: Supplementary Authorizations for Single Subject Teaching Credentials

Appendix B: Supplementary Authorizations for Multiple Subject Teaching Credentials

Appendix C: Introductory Subject Matter Authorizations for Single Subject and Multiple Subject

Teaching Credentials

<u>Appendix D: Specific Subject Matter Authorizations for Single Subject and Multiple Subject Teaching Credentials</u>

Contact Information

Questions regarding credential requirements and application submissions may be directed to the Commission's Certification Division at Contact Us | Educator Resources.

Appendix A Supplementary Authorizations for Single Subject Teaching Credentials

Authorization	Available Options	Expanded Options
Introductory	20 semester units (10 if upper-division units)	• CSET exams (172,173, and 174)
Agriculture	Degree major directly related to the subject	 Combination of CSET and coursework verified via program evaluation
	Units must include at least one course in each of the following: animal science, plant science, and agricultural mechanics.	Comparable authorization on out-of-state license
Introductory	20 semester units (10 if upper-division units)	 CSET exams (229 and 230),
Art	Degree major directly related to the subject	 Combination of CSET and coursework verified via program evaluation
	Units must include at least one course in each of the following: drawing and painting, art history or appreciation, and crafts.	Comparable authorization on out-of-state license
Introductory	20 semester units (10 if upper-division units)	• CSET exams (175, 176 and 177)
Business	Degree major directly related to the subject	 Combination of CSET and coursework verified via program evaluation
	Units must include at least one course in each of the following: Business management, business marketing or introduction to business, computer concepts and applications, economics, business communications or business English, and accounting.	Comparable authorization on out-of-state license
Introductory	20 semester units (10 if upper-division units)	Comparable authorization on out-of-state license
Computer Science	Degree major directly related to the subject	
	Units must include at least one course in each of the	
	following: Computational thinking, computing practice	
	and programming, computers and communication	
	devices, and impacts of computing (e.g., social, ethical,	

	legal) – impacts of computing topics may be included within courses that cover any of the other content areas.	
Introductory Dance	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: Jazz dance, contemporary dance, and dance theory. 	 CSET exams (221 and 222) Combination of CSET and coursework verified via program evaluation Comparable authorization on out-of-state license
Introductory English	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: Composition, literature, and grammar or language structure. 	 CSET exams (105, 106, 107, and 108) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Introductory Health Science	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: 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. 	 CSET exams (178, 179, and 180) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Introductory Home Economics	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: Food and nutrition, clothing, child development, and family life and parenting (Course of study must include course work in both food and nutrition, but the areas may be covered with one course; the same is true for the family life and parenting area; at least one course must include a laboratory component). 	 CSET exams (181, 182, and 183) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license

Introductory	20 semester units (10 if upper-division units)	CSET exams (184 and 185)
Industrial Arts	Degree major directly related to the subject	 Combination of CSET and coursework evaluation Industrial and Technology Education (ITE) or
	Units must include at least one course in each of the following: Drafting or graphic arts, woods or metals, and electricity or electronics.	comparable authorization on out-of-state license
Introductory	20 semester units (10 if upper-division units)	• CSET exams (211, 212, and 213)
Mathematics	 Degree major directly related to the subject 	Combination of CSET and coursework evaluation
	Units must include at least one course in each of the following: 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 intermediate algebra and geometry are prerequisites.	Comparable authorization on out-of-state license
Introductory	20 semester units (10 if upper-division units)	 CSET exams (226 and 227)
Music	Degree major directly related to the subject	 Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
	Units must include at least one course in each of the following: Vocal music, instrumental music, music history or appreciation, and music theory	·
Introductory	20 semester units (10 if upper-division units)	 CSET exams (129, 130, and 131)
Physical	 Degree major directly related to the subject 	Combination of CSET and coursework evaluation
Education	Units must include at least one course in each of the following: 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, non-traditional, and global sports and games (such as aquatics, conditioning, and archery).	Comparable authorization on out-of-state license
Introductory	20 semester units (10 if upper-division units)	CSET exams (215)
Science	 Degree major directly related to the subject 	Combination of CSET and coursework evaluation

	Units must include at least one course in each of the following: Biological sciences, chemistry, geosciences, and physics (The course work must include a one-year sequence of courses in at least two of the listed subject areas, and at least one course must include a laboratory component).	Comparable authorization on out-of-state license
Introductory Social Science	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: United States history, California history, world 	 CSET exams (114, 115, and 116) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Introductory Theater	 history, geography, and United States government. 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: Acting, directing and stagecraft. 	 CSET exams (223 and 224) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Introductory World Languages	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: Grammar, composition, conversation, and literature, plus oral language proficiency. 	 CSET exams - For appropriate CSET exams, review the language-specific information on information leaflet CL-674S. Combination of CSET and coursework evaluation Comparable authorization on out-of-state license

Specific Supplementary Authorizations for Single Subject Teaching Credentials

Authorization	Available Options	Expanded Options
Accounting including Finance	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 176 Comparable authorization on out-of-state license
Agricultural Mechanics	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 Comparable authorization on out-of-state license
Animal Science	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 173 Comparable authorization on out-of-state license
Anthropology	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Auto Mechanics	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Biological Sciences [2]	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 217 Comparable authorization on out-of-state license
Chemistry [2]	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 218 Comparable authorization on out-of-state license
Child Development (Home Economics) [3]	20 semester units (10 if upper- division units)	CSET exam 181

	 Degree major directly related to the subject 	 Comparable authorization on out-of-state license
Clothing and Textiles (Home Economics) [3]	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 183 Comparable authorization on out-of-state license
Comparative Political Systems and International Relations	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 Comparable authorization on out-of-state license
Computer Science [4]	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 Comparable authorization on out-of-state license
Consumer Education (Home Economics)	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 183 Comparable authorization on out-of-state license
Crafts, including Jewelry and Ceramics (Art)	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 Comparable authorization on out-of-state license
Dance	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exams (221 and 222) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Drafting	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Economics	 20 semester units (10 if upper- division units) 	CSET exam 116

	Degree major directly related to the subject	Comparable authorization on out-of-state license
Economic and Consumer Education	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 116 Comparable authorization on out-of-state license
Electronics	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
English Composition	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exams (105 and 107) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Family Life and Parenting (Home Economics)	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 180 Comparable authorization on out-of-state license
Family Life Education including Drug, Alcohol and Tobacco Use Prevention (Health Science)	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exams (179 and 180) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Food and Nutrition (Home Economics) [3]	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 182 Comparable authorization on out-of-state license
Forestry and Horticulture	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 172 Comparable authorization on out-of-state license

Geography	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exams (114 and 115) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Geosciences [2]	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exams 219 Comparable authorization on out-of-state license
Graphic Arts	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Industrial Crafts and Plastics	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Instrumental Music	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exams (226 and 227) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Interior Design (Home Economics) [3]	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 183 Comparable authorization on out-of-state license
Journalism	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Literature	20 semester units (10 if upper- division units)	• CSET exams (105 and 107)

	Degree major directly related to the subject	 Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Marketing/Entrepreneurship	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 175 Comparable authorization on out-of-state license
Metals (Industrial Arts)	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Office Technologies including Word Processing and Business Communications	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Ornamental Horticulture	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 172 Comparable authorization on out-of-state license
Painting and Drawing	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 229 Comparable authorization on out-of-state license
Photography	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Physics [2]	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 220 Comparable authorization on out-of-state license

Plant Science	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 172 Comparable authorization on out-of-state license
Plastics (Industrial Arts)	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Psychology	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Sociology	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
Speech	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 108 Comparable authorization on out-of-state license
Theater	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exams (223 and 224) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
US Government and US Civics	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 116 Comparable authorization on out-of-state license
US History and California History	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exams (115 and 116) Combination of CSET and coursework evaluation

		Comparable authorization on out-of-state license
Vocal Music	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exams (226 and 227) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Woods (Industrial Arts)	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	Comparable authorization on out-of-state license
World History	 20 semester units (10 if upperdivision units) Degree major directly related to the subject 	 CSET exam 114 Comparable authorization on out-of-state license

Note [2]: The specific subjects in science must include the components for that area as shown below. At least one course must include a laboratory component.

Biological Sciences: Molecular and Cellular Biology, Biology of Organisms, and Evolution.

Chemistry: Structure and Stability, and Chemical Reactions.

Geosciences: Astronomy, Geology, Meteorology, and Oceanography.

Physics: Energy-Mechanics, Energy-Heat, Energy-Electricity & Magnetism, Wave Motion, and Atomic & Nuclear Physics.

Note [3]: Subjects marked must include a laboratory component.

Note [4]: The specific subject Computer Science must include the following components: computer programming, data structures and algorithms, digital devices, systems and networks, software design, and impacts of computing (e.g., social, ethical, legal) – impacts of computing topics may be included within courses that cover any of the other content areas.

Note [5]: Family Life Education, including Drug, Alcohol, and Tobacco Use Prevention (Health Science), must include the following components: Sexually Transmitted Diseases including HIV/AIDS, Human Development and Human Sexuality, Parenting Education, Violence Prevention, and Drug, Alcohol, and Tobacco Use, Prevention, and Cessation.

Appendix B Supplementary Authorizations for Multiple Subject Teaching Credentials

Authorization	Available Options	Expanded Options
Agriculture	20 semester units (10 if upper-division units)	CSET exams (172,173, and 174)
	Degree major directly related to the subject	 Combination of CSET and coursework verified via program evaluation
	Units must include at least one course in each of the	Comparable authorization on out-of-state license
	following: animal science, plant science, and agricultural mechanics.	
Art	20 semester units (10 if upper-division units)	 CSET exams (229 and 230),
	Degree major directly related to the subject	 Combination of CSET and coursework verified via program evaluation
	Units must include at least one course in each of the	Comparable authorization on out-of-state license
	following: drawing and painting, art history or appreciation, and crafts.	·
Business	20 semester units (10 if upper-division units)	CSET exams (175, 176 and 177)
	Degree major directly related to the subject	 Combination of CSET and coursework verified via program evaluation
	Units must include at least one course in each of the	Comparable authorization on out-of-state license
	following: Business management, business marketing or	'
	introduction to business, computer concepts and	
	applications, economics, business communications or	
	business English, and accounting.	
Computer	20 semester units (10 if upper-division units)	Comparable authorization on out-of-state license
Science	Degree major directly related to the subject	
	Units must include at least one course in each of the	
	following: Computational thinking, computing practice and	
	programming, computers and communications devices, and	
	impacts of computing (e.g., social, ethical, legal) – impacts	

	of computing topics may be included within courses that cover any of the other content areas.	
Dance	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: Jazz dance, contemporary dance, and dance theory. 	 CSET exams (221 and 222) Combination of CSET and coursework verified via program evaluation Comparable authorization on out-of-state license
English	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: Composition, literature, and grammar or language structure. 	 CSET exams (105, 106, 107, and 108) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Health Science	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: 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. 	 CSET exams (178, 179, and 180) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Home Economics	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: Food and nutrition, clothing, child development, and family life and parenting (Course of study must include course work in both food and nutrition, but the areas may be covered with one course; the same is true for the family life and parenting area; at least one course must include a laboratory component). 	 CSET exams (181, 182, and 183) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license

Industrial Arts	20 semester units (10 if upper-division units)	• CSET exams (184 and 185)
	 Degree major directly related to the subject 	 Combination of CSET and coursework evaluation
		 Industrial and Technology Education (ITE) or
	Units must include at least one course in each of the	comparable authorization on out-of-state license
	following: Drafting or graphic arts, woods or metals, and	·
	electricity or electronics.	
World	 20 semester units (10 if upper-division units) 	 CSET exams - For appropriate CSET exams, review
Languages	Degree major directly related to the subject	the language-specific information on information leaflet CL-674S.
	Units must include at least one course in each of the	Combination of CSET and coursework evaluation
	following: Grammar, composition, conversation, and	Comparable authorization on out-of-state license
	literature, plus oral language proficiency.	Comparable authorization on out-or-state license
Mathematics	20 semester units (10 if upper-division units)	CSET exams (211, 212, and 213)
Wide Contraction	Degree major directly related to the subject	Combination of CSET and coursework evaluation
	Degree major directly related to the subject	
	Units must include at least one course in each of the	Comparable authorization on out-of-state license
	following: 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 intermediate algebra and geometry are prerequisites.	
Music	20 semester units (10 if upper-division units)	CSET exams (226 and 227)
	Degree major directly related to the subject	Combination of CSET and coursework evaluation
		Comparable authorization on out-of-state license
	Units must include at least one course in each of the	,
	following: Vocal music, instrumental music, music history or	
	appreciation, and music theory	
Physical	 20 semester units (10 if upper-division units) 	 CSET exams (129, 130, and 131)
Education	Degree major directly related to the subject	 Combination of CSET and coursework evaluation
		Comparable authorization on out-of-state license
	Units must include at least one course in each of the	
	following: 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).	
Science	 20 semester units (10 if upper-division units) Degree major directly related to the subject 	 CSET exam 215 Comparable authorization on out-of-state license
	Units must include at least one course in each of the following: Biological sciences, chemistry, geosciences, and physics (The course work must include a one-year sequence of courses in at least two of the listed subject areas, and at least one course must include a laboratory component).	
Social Science	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: United States history, California history, world history, geography, and United States government. 	 CSET exams (114, 115, and 116) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Theater	 20 semester units (10 if upper-division units) Degree major directly related to the subject Units must include at least one course in each of the following: Acting, directing and stagecraft. 	 CSET exams (223 and 224) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license

Appendix C

Introductory Subject Matter Authorizations for Single Subject and Multiple Subject Teaching Credentials

Authorization	Previous Requirements	Expanded Options
Art	 32 semester units of coursework in the subject Degree major in a directly related subject Units must include a minimum of three semester units of coursework in each of the following content areas: 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 	 CSET exams (229 and 230), Combination of CSET and coursework verified via program evaluation Comparable authorization on out-of-state license
Dance	 32 semester units of coursework in the subject Degree major in a directly related subject Units must include a minimum of three semester units of coursework in each of the following content areas: jazz dance, contemporary dance, and dance theory 	 CSET exams (221 and 222) Combination of CSET and coursework verified via program evaluation Comparable authorization on out-of-state license
English	 32 semester units of coursework in the subject Degree major in a directly related subject Units must include a minimum of three semester units of coursework in each of the following content areas: grammar or language structure, advanced composition, speech, and literature 	 CSET exams (105, 106, 107, and 108) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Mathematics	 32 semester units of coursework in the subject Degree major in a directly related subject Units must include a minimum of three semester units of coursework in each of the following content areas: 	 CSET exams (211, 212, and 213) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license

	algebra, advanced algebra, geometry, probability or statistics, and development of the real number system or introduction to mathematics	
Music	 32 semester units of coursework in the subject Degree major in a directly related subject Units must include a minimum of three semester units of coursework in each of the following content areas: 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 	 CSET exams (226 and 227) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Science	 32 semester units of coursework in the subject Degree major in a directly related subject Units must include a minimum of six semester units of coursework in each of the following content areas: biological sciences, chemistry, geosciences, and physics 	 CSET exam 215 Comparable authorization on out-of-state license
Social Science	 32 semester units of coursework in the subject Degree major in a directly related subject Units must include a minimum of three semester units of coursework in each of the following content areas: United States history, California history, world history, world civilization or world cultures, physical geography, and United States government 	 CSET exams (114, 115, and 116) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Theater	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exams (223 and 224) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license

	Units must include a minimum of three semester units of coursework in each of the following content areas: acting, directing and stagecraft	
World Languages	32 semester units of coursework in the subject or a degree major in a directly related subject. Units must include a minimum of three semester units of coursework in each of the following content areas: grammar, composition, culture, conversation, and literature	 CSET exams - for appropriate CSET exams, review the language-specific information on <u>information leaflet CL-674S</u>. Combination of CSET and coursework evaluation Comparable authorization on out-of-state license.

Appendix D

Specific Subject Matter Authorizations for Single Subject and Multiple Subject Teaching Credentials

Authorization	Previous Requirements	Expanded Options
Art History/Appreciation	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exams (229 and 230), Combination of CSET and coursework verified via program evaluation Comparable authorization on out-of-state license
Biological Sciences	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exam 217 Comparable authorization on out-of-state license
Chemistry	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exam 218 Comparable authorization on out-of-state license
Civics/Government	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exam 116 Comparable authorization on out-of-state license.
Dance	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exams (221 and 222) Combination of CSET and coursework verified via program evaluation Comparable authorization on out-of-state license
Drama/Theatre	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exams (223 and 224) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Economics (Social Science)	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exam 116 Comparable authorization on out-of-state license
English Composition	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exams (105 and 107) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license

Geography	32 semester units of coursework in the subject	 CSET exams (114 and 115) Combination of CSET and coursework evaluation
Geosciences	 Degree major in a directly related subject 32 semester units of coursework in the subject Degree major in a directly related subject 	 Comparable authorization on out-of-state license. CSET exam 219 Comparable authorization on out-of-state license
History	 32 semester units of coursework in the subject Degree major in a directly related subject Coursework must include 16 semester units in world history and 16 semester units in United States history. 	 CSET exams (114, 115, and 116) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license.
Instrumental Music	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exams (226 and 227) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Literature	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exams (105 and 107) Combination of CSET and coursework evaluation Comparable authorization on out-of-state license
Photography	 32 semester units of coursework in the subject Degree major in a directly related subject 	Comparable authorization on out-of-state license.
Physics	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exam 220 Comparable authorization on out-of-state license
Plant Science	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exam 172 Comparable authorization on out-of-state license.
Three-Dimensional Art	 32 semester units of coursework in the subject Degree major in a directly related subject 	 CSET exams (229 and 230), Combination of CSET and coursework verified via program evaluation

		Comparable authorization on out-of-state license
Two-Dimensional Art	32 semester units of coursework in the	 CSET exams (229 and 230),
	subject	Combination of CSET and coursework verified via
	 Degree major in a directly related subject 	program evaluation
		Comparable authorization on out-of-state license
Vocal Music	32 semester units of coursework in the	 CSET exams (226 and 227)
	subject	Combination of CSET and coursework evaluation
	 Degree major in a directly related subject 	Comparable authorization on out-of-state license