BA IN LIBERAL STUDIES (MATHEMATICS)



SACRAMENTO STATE Redefine the Possible

In Workflow

- 1. Academic Services (torsetj@csus.edu;%20212408496@csus.edu;%20cnewsome@skymail.csus.edu)
- 2. SSIS College Committee Chair (mummawh@skymail.csus.edu)
- 3. SSIS Dean (mendriga@csus.edu)
- 4. Academic Services (torsetj@csus.edu;%20212408496@csus.edu;%20cnewsome@skymail.csus.edu)
- 5. Senate Curriculum Subcommittee Chair (curriculum@csus.edu)
- 6. Council on the Preparation of School Personnel Chair (mae.chaplin@csus.edu)
- 7. Dean of Undergraduate (james.german@csus.edu;%20celena.showers@csus.edu)
- 8. Dean of Graduate (cnewsome@skymail.csus.edu)
- 9. Catalog Editor (212408496@csus.edu;%20torsetj@csus.edu;%20cnewsome@skymail.csus.edu)
- 10. Registrar's Office (wlindsey@csus.edu)

Approval Path

- 1. Tue, 10 Mar 2020 20:25:31 GMT
 - Janett Torset (torsetj): Approved for Academic Services
- Wed, 15 Apr 2020 23:51:08 GMT Mical Shilts (shiltsm): Approved for SSIS College Committee Chair
- 3. Fri, 17 Apr 2020 18:18:25 GMT Marya Endriga (mendriga): Approved for SSIS Dean

History

- 1. May 4, 2018 by clmig-jwehrheim
- 2. Aug 7, 2018 by 212408496
- 3. Oct 2, 2018 by 212408496
- 4. Dec 16, 2019 by Tim Fong (tfong01)

Date Submitted:Tue, 10 Mar 2020 20:17:08 GMT

Viewing:BA in Liberal Studies (Mathematics) Last approved:Mon, 16 Dec 2019 17:51:09 GMT Last edit:Wed, 29 Apr 2020 18:21:06 GMT

Changes proposed by: Kristin Van Gaasbeck (101051492)

Academic Group: (College)

Social Sciences & Interdisciplinary Studies

Academic Organization: (Department)

College of Social Science & Interdisciplinary Studies

Catalog Year Effective:

2021-2022 Catalog

Individual(s) primarily responsible for drafting the proposed degree major program:

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Name (First Last)	Email	Phone 999-999-9999	
Kristin A. Van Gaasbeck	kavan@csus.edu	916-278-6062	
Type of Program Proposal: Major			
Program Change Type: Non-Substantive			

Title of the Program:

BA in Liberal Studies (Mathematics)

Designation: (degree terminology)

Bachelor of Arts

Briefly describe the program proposal (new or change) and provide a justification:

Liberal Studies majors complete an extensive, interdisciplinary core curriculum. In addition to satisfying the interdisciplinary core curriculum, students are required to complete additional coursework that is focused on an area of study in the form of a concentration or a minor. A concentration requires 12 units of coursework as defined in the concentration curriculum.

Over time, the course content and course pre-requisites associated with courses in mathematics and statistics have evolved over time. These curricular changes have affected the ability of Liberal Studies majors to complete the Mathematics concentration as currently written in the catalog. Specifically, course prerequisites were added to the courses listed, course content has evolved, and new courses have been created since the original concentration was drafted. These changes increased the effective units required to complete the Mathematics concentration as it currently appears in the catalog.

In consultation with the Mathematics faculty and the Liberal Studies Council, we are proposing changes to the Mathematics concentration in Liberal Studies to address the aforementioned curricular changes. There are changes to neither the units in the concentration (12 units), nor to units to degree for Liberal Studies majors. Formal consultation is noted minutes from the Liberal Studies Council meeting (October 23, 2019), which includes a faculty representative from Mathematics.

The change to the Mathematics concentration in the BA in Liberal Studies is designed to achieve three objectives:

 The courses currently listed under the Mathematics concentration have changed significantly since the inception of the BA in Liberal Studies (Mathematics). Currently, the required courses listed have prerequisites that are not part of the BA in Liberal Studies. The new proposed courses include prerequisites already completed as part of the core BA in Liberal Studies requirements.
The proposed courses better align with helping students make progress toward an Introductory Subject Matter Authorization in Mathematics.

3) The proposed concentration is more flexible for students. For example, students wishing to take a sequence of calculus courses are still able to do so, but are not required to do so.

Objectives of the degree program:

BA Degree

University Learning Goals

Undergraduate Learning Goals:

Competence in the disciplines Knowledge of human cultures and the physical and natural world Integrative learning Personal and social responsibility Intellectual and practical skills

Will this program be required as part of a teaching credential program, a single subject, or multiple subject waiver program (e.g., Liberal Studies, Biology) or other school personnel preparation program (e.g., School of Nursing)? Yes

For the Council for the Preparation of School Personnel (to be filled out with assistance of your department chair):

Does this program change impact your department's currently written Program Standards Document? No

Common Standards: In what way does this course or program change impact the currently written Common Standards document? Please include any suggested language changes.

No effect on Common Standards document. This change affects the concentration only, not the core curriculum in Liberal Studies.

Is this change in response to program or unit assessment activities?

No

Will this program introduce any new or changes to program assessments?

No

Do these changes impact the Smart Planner roadmap?

No

Catalog Description:

Units required for Major: 100-103 Total units required for BA: 120

Program Description

The Liberal Studies program is an interdisciplinary major, which encompasses a wide variety of areas of knowledge in a multidisciplinary curriculum. The program provides a broad academic program that encourages academic excellence, diversity, community, and collaboration. There are two tracks in the Liberal Studies Program: Pre-Credential and General.

•The Pre-Credential program is a multidisciplinary major designed for students who intend to become K-8 or special education teachers in California, and it has been approved by the California Commission on Teacher Credentialing. Its purpose is to provide beginning teachers with a strong grounding in the wide ranging subject matter that will be needed to be effective teachers. The core section is comprised of courses in reading, language and literature, mathematics, natural science, history and social sciences, visual and performing arts, physical education, human development, and health. The Pre-Credential program requires a 12-unit concentration.

•The General program is designed for students who are interested in a multidisciplinary major, but who do not necessarily plan to become teachers. The Liberal Studies major is an excellent preparation for careers in government service, public administration, business, management, community service, counseling, law, librarianship, public health, as well as professional or graduate school. This major requires students to include a minor.

The Liberal Studies major is a complex program requiring early and continuing contact with an adviser. Students meet with an adviser at least once each semester to provide a hands-on approach to learning. Students must complete 120 units and meet the University foreign language requirement in order to earn a Bachelor of Arts degree. Students are urged to obtain advice as early as possible to avoid delays in the completion of these requirements. The Liberal Studies program director and faculty and staff advisers are located in Lassen Hall 2008, (916) 278-6342.

Admission Requirements: Course prerequisites and other criteria for admission of students to the degree major program, and for their continuation in it.

Minimum Grade Requirement

A minimum grade of 'C-' is required in all courses applied to the Liberal Studies major.

Requirements for Concentrations (Pre-Credential Program)

All concentrations require a minimum of 12 units, 3 of which may overlap with the core course requirements (except for concentration in multicultural studies). Students who wish to complete requirements for a supplementary authorization in any CCTC-approved discipline, which allows them to teach the subject matter typically taught in grades K-9, should see an adviser for important information.

Requirements for the General Program

Students who are following the General Liberal Studies program will complete a minor instead of a concentration. Please talk to an adviser for more information.

As defined by policyhttp://www.csus.edu/umanual/acadaff/fsm00010.htm, a change in units constitutes a substantive change to the program. If your changes constitute a substantive change, please refer back to the 'Program Change Type' field above to ensure that 'Substantive' is selected.

Program Requirements: (If new courses are being created as part of a new program, it will be useful to propose courses first.)

Program Requirements

Code	Title	Units
Core Requiremen	ts for Pre-Credential program (88 Units) ¹	
Reading, Language		
COMS 5	The Communication Experience ²	3
ENGL 5	Accelerated Academic Literacies ²	3
ENGL 16	Structure Of English	3
ENGL 20	College Composition II ^{2,3}	3
ENGL 116A	Studies in Applied Linguistics	3
ENGL 116B	Children's Literary Classics	3
Mathematics ⁴		
MATH 17	An Introduction to Exploration, Conjecture, and Proof in Mathematics ²	3
MATH 107A	Fundamental Mathematical Concepts	3
MATH 107B	Fundamental Mathematical Concepts	3
Natural Science	_	
BIO 7	Introduction to the Science of Biology ²	4

CHEM 106	Chemical Concepts	3
GEOL 8	Earth Science ²	3
GEOL 8T	Earth Science Lab for Teachers	1
PHYS 107	Conceptual Physics and Scientific Inquiry	4
Social Science and Humanities		
GEOG 100	Themes In World Geography	3
HIST 17A	United States History, 1607-1877 Q ²	3
HIST 50	World Civilizations, Beginnings-1600 ²	3
HIST 132	Topics In World History	3
HIST 187	Topics in United States History 1600-1900	3
or ECON 104	Introduction to the United States Economy	
LBST 110	California Studies	3
POLS 1	Essentials Of Government ²	3
Visual and Performing Arts		
ART 133	Art Education for Children	3
MUSC 101	Experiences In Music	3
THEA 118	Children's Theatre	3
Physical Education		
KINS 172	Movement Education	3
Health Science		
PUBH 136	School Health Education	2
Human Development		
CHDV 35	Child and Adolescent Development	3
Integrative Study		
HRS 162	American Space and Identity	3
or MATH 107C	Elementary Mathematics and the Learning Process	
Field Experience		
CHDV 35F	Human Development and Elementary Field Experience	2
Select one of the following:		3
EDUC 194	Cooperative Education Experience	
EDUC 124A & EDUC 124B	Tutoring Children in Mathematics Tutoring Children in Mathematics: Practicum	
EDUC 125A & EDUC 125B	Tutoring Children in Reading Tutoring Children in Reading Practicum	
Summative Assessment Require	ement	
The Liberal Studies Pre-Credential Program is in compliance with California Commission on Teacher Credentialing standards.		

and students who complete this major are waived from taking the California Subject Matter Examination (CSET).

Requirements for Concentrations (for pre-credential program) (12-15 Units)

Select one of the following concentrations: 12-15 Linguistics/Composition 12 Literature Foreign Language United States History 0 World History 0 California Studies 0 American Studies 0 Multicultural Studies 0 Mathematics 0 Natural Science 0 Art 0 Music 0 Theatre 0 Physical Education 0 Human Development 0	requiremento for concentrationo (for pre creatinal program) (12 re cinto)	
Literature Foreign Language United States History World History California Studies American Studies Multicultural Studies Mathematics Natural Science Art Music Theatre Physical Education	Select one of the following concentrations:	
Foreign Language United States History World History California Studies American Studies Multicultural Studies Mathematics Natural Science Art Music Theatre Physical Education	Linguistics/Composition	
United States History World History California Studies American Studies Multicultural Studies Mathematics Natural Science Art Music Theatre Physical Education	Literature	
World HistoryCalifornia StudiesAmerican StudiesMulticultural StudiesMathematicsNatural ScienceArtMusicTheatrePhysical Education	Foreign Language	
California Studies American Studies Multicultural Studies Mathematics Natural Science Art Music Theatre Physical Education	United States History	
American StudiesMulticultural StudiesMathematicsNatural ScienceArtMusicTheatrePhysical Education	World History	
Multicultural Studies Mathematics Natural Science Art Music Theatre Physical Education	California Studies	
Mathematics Natural Science Art Music Theatre Physical Education	American Studies	
Natural Science Art Music Theatre Physical Education	Multicultural Studies	
Art Music Theatre Physical Education	Mathematics	
Music Theatre Physical Education	Natural Science	
Theatre Physical Education	Art	
Physical Education	Music	
	Theatre	
Human Development		
	Human Development	
Total Units 100-103	Total Units	100-103

12

- ¹ The Core Requirements for the General program are similar to the Core Requirements for the Pre-Credential program except there are a number of substitutions that can be made. Please see an adviser for more information.
- ² Course also satisfies General Education (GE)/Graduation Requirement.
- ³ Course to meet critical thinking requirement. See adviser for specific options.
- ⁴ Students who complete a mathematics concentration may substituteMATH 30,MATH 31, andMATH 35for the above requirements. In addition, there are other ways of completing a concentration in mathematics. For further information on a concentration in mathematics, please consult the mathematics adviser in Liberal Studies.

Concentration in Mathematics

Code	Title	Units
MATH 107C	Elementary Mathematics and the Learning Process	3
STAT 1	Introduction to Statistics	3
Two additional courses in Mathematics (MATH) or Statistics (STAT) selected with a Liberal Studies major advisor, excluding MATH 10 and MATH 12.		

Total Units

Note: MATH 1 may be counted toward the mathematics concentration. The courses given above are one path for completing a mathematics concentration. There are other ways of completing a mathematics concentration - please consult a major advisor in Liberal Studies for more information.

General Education Requirements¹

Code	- Title	Units	
Area A: Basic Subjects	Area A: Basic Subjects		
A1 - Oral Communicati		0	
A2 - Written Communio		0	
A3 - Critical Thinking ²		0	
	erse and Its Life Forms (3 Units)		
B1 - Physical Science ²	<u>}</u>	0	
B2 - Life Forms ²		0	
	perience to be taken with one of the following: B1, B2 or B5) ²	0	
B4 - Math Concepts ²		0	
B5 - Additional Course	e (Any B to reach 12 units) - Take upper-division course to complete Area & upper division requirements.	3	
Area C: Arts and Huma	anities (9 Units)		
C1 - Arts		3	
C2 - Humanities ²		0	
C1/C2 - Area C Course			
C1/C2 - Area C Course - Take upper-division course to complete Area & upper division requirements.			
Area D: The Individual and Society (6 Units)			
Area D Course ²		0	
Area D Course ²		0	
Area D Course		3	
Area D Course - Take upper-division course to complete Area & upper division requirements.		3	
Area E: Understanding Personal Development (3 Units)			
Area E Course			
Total Units		21	
¹ To help you con	mplete your degree in a timely menner and not take more units then absolutely personary there are you		

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (http://catalog.csus.edu/colleges/academic-affairs/general-education/).

Note: There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

² Required in Major; also satisfies GE.

Graduation Requirements¹

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Code	Title	Units
Graduation Requirements (required by CSU) (3 Units)		
American Institutions: U.S. Histo	pry ²	0
American Institutions: U.S. Constitution & CA Government ²		0
Writing Intensive (WI)		3
Graduation Requirements (required by Sacramento State) (6 Units)		
English Composition II ²		0

Race and Ethnicity in American Society (RE)² Foreign Language Proficiency Requirement³

To help you complete your degree in a timely manner and not take more units than absolutely necessary, there are ways to use single courses to meet more than one requirement (overlap). For further information, please visit the General Education page (http://catalog.csus.edu/colleges/academic-affairs/general-education/).

Note: There is no way to list all possible overlaps so please consult with a professional adviser. The Academic Advising Center can be visited online (http://www.csus.edu/acad/), by phone (916) 278-1000, or email (advising@csus.edu).

² Required in Major; also satisfies Graduation Requirement.

³ If not satisfied before entering Sacramento State, it may be satisfied in General Education Area C2 (Humanities). 'C- or better required.' The alternative methods for satisfying the Foreign Language Proficiency Requirement are described here: https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html (https://www.csus.edu/college/arts-letters/world-languages-literatures/foreign-language-requirement.html)

Fiscal Impact to Change an Existing Program

Indicate programmatic or fiscal impact which this change will have on other academic units' programs, and describe the consultation that has occurred with affected units:

Not applicable. Consultation with Mathematics attached.

Attach a copy of correspondence with these units:

LIBS_MATH_Concentration_2020.pdf

Provide a fiscal analysis of the proposed changes:

Not applicable.

How will the above changes be accommodated within the department/College existing fiscal resources? Not applicable.

Will the proposed changes require additional resources?

No

What additional space, equipment, operating expenses, library, computer, or media resources, clerical/technical support, or other resources will be needed?

Not applicable.

Estimate the cost and indicate how these resource needs will be accommodated:

Not applicable.

Key: 360