

Academic Policies Committee
Short Form Proposal Template

Schools/departments should use this short form to submit proposals:

- Needing only APC approval (revision of course descriptions including title, number or prerequisites, alternate year listing in the Catalog and the cross listing of courses); or
- Eliminating (or adding?) 1-3 courses which don't impact other programs or
- Eliminating a minor, concentration, credential program or certificate which doesn't impact other programs (confirmed by direct administrative report - college dean or provost).

All submitted proposals need to adhere to the following template in order to facilitate the work of the Academic Policies Committee.

I. Who - Academic Unit Name:

Mathematical, Information and Computer Sciences

II. Impact– Will this proposal impact other departments, schools or Ryan Library (Yes/No)? If yes, please describe and provide date of contact to respective personnel: No

III. What – Proposal Summary:

Mathematical, Information and Computer Sciences:

- Change the title of the course of CSC 311 (1) R for Computational Science to CSC311 R and Machine Learning
- Change MTH242 Number Theory with Proofs (2) to MTH312 Number Theory with Proofs (2)
- Make a slight adjustment in the course description of ISS392 Topics in Cyber Security.
- Add the appropriate language to the catalog for the program that blends a BS in Mathematics with a teaching credential.

IV. When – Academic Year and Semester Changes to Take Place:
Fall 2019

V. Why – Proposal Rationale (might include):

Mathematical, Information and Computer Sciences:

CSC311 (1) R for Computational Science name has been changed to reflect the Machine Learning component. This is important for our new Data Science degree in Mathematics.

MTH242 (2) Number Theory with Proofs. Typically Number Theory is an upper division course. We need to make this adjustment to bring our coursework in line with national trends and to facilitate the ADT degree in Mathematics.

ISS392 (2) Topics in Cyber Security description has been modified slightly to allow for moving it to an alternating year class and adding a class in information security for the new Cyber Security emphasis in Computer Science.

The MICS Department worked with the School of Education to design a program that blends a BS in Mathematics with the necessary work to earn a teaching credential. Language needs to be added to reflect that. The following has been added to the Mathematics BS description, but it will need to be adjusted in all locations where the Blended Single Subject Programs are described.

Blended Program: Single Subject Teaching Credential

Majors in the Bachelor of Arts **and Bachelor of Science** degrees complete a minimum of 128 units to graduate. The following majors have the option of choosing the blended teacher education track by fulfilling additional units within the undergraduate degree in fulfillment of the Single Subject California Teaching Credential.

- [Art Education, B.A.](#) (Single Subject Art California Teaching Credential)
- [Biology, B.A.](#) (Single Subject Science California Teaching Credential)
- [Exercise and Sport Science, B.A.](#) (Single Subject Physical Education California Teaching Credential)
- [French, B.A.](#) (Single Subject World Languages: French California Teaching Credential)
- [History, B.A.](#) (Single Subject Social Sciences Teaching Credential)
- **Mathematics, B.S. (Single Subject Mathematics Teaching Credential)**
- [Music Education, B.A.](#) (Single Subject Music California Teaching Credential)
- [Spanish, B.A.](#) (Single Subject World Languages: Spanish California Teaching Credential)

For the blended program, the following 400 level credential courses are strategically added to the undergraduate degree course plan. These courses represent the required courses for the California SB2042 Single Subject Teaching Credential. Students desiring to enroll in the blended teacher education track would need to make application to the Teacher Education program before entry in the 3rd credential course, meeting all program, university and state requirements for classroom observations and tests required prior to student teaching. Students would be interviewed by a faculty committee prior to being placed in student teaching. Candidates remain Kinesiology majors, and are co-advised by both departments throughout their undergraduate program.

Candidates may also apply to the School of Education Graduate Program to fulfill the remaining requirements toward the California Teaching Credential(s). Any 400-level courses cross listed with the 600 level credential courses cannot be repeated between the undergraduate and graduate programs. At the point that the requirements for the undergraduate degree are fulfilled, the candidate would apply to the Graduate School of education and complete the remaining courses required for the credential post-baccalaureate.

The following courses may be used for the credentialing purposes in the State of California. When taken prior to the posting of a baccalaureate degree, unit values may not be applied toward master's degree courses. Other appropriate master's degree-level courses must be substituted for unit values.

Requirements

- [EDU 302 - Foundations of Education and Learning Theory \(3\)](#)
- [EDU 306 - Principles of Language Acquisition \(3\)](#)
- [EDU 404 - Foundations of Special Education \(3\)](#)
- [EDU 409 - Classroom Assessment and Research Practices \(3\)](#)
- [EDU 417 - Teaching and Learning Capstone: Contemporary Issues in the Vocation of Education \(2\)](#)
- [EDU 420 - Literacy Instruction for Secondary Teachers \(3\)](#)
- [EDU 421 - General Methods for Secondary Teachers \(3\)](#)
- [EDU 450 - Secondary Clinical Practice I \(4\)](#)
- [EDU 455 - Secondary Clinical Practice II \(4\)](#)
- [EDU 4CP3 - Secondary Clinical Practice Seminar I \(1\)](#)
- [EDU 4CP4 - Secondary Clinical Practice Seminar II \(1\)](#)
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- **One course from the following based on the major:**
 - **EDU 433 - Methods for Teaching Secondary Mathematics (Mathematics Majors)**
 - [EDU 434 - Methods of Teaching Secondary Science \(3\)](#) (Biology Majors)
 - [EDU 435 - Methods of Teaching Secondary Social Science \(3\)](#) (History Majors)
 - [EDU 436 - Methods for Teaching Secondary Foreign Language \(3\)](#) (French/Spanish Majors)

- [EDU 437 - Methods for Teaching Secondary Visual Arts \(3\)](#) (Art Education Majors)
- [EDU 438 - Methods for Teaching Secondary Physical Education \(3\)](#) (Exercise and Sports Science Majors)
- [EDU 439 - Content-Specific Pedagogy for Secondary Teachers \(3\)](#) ** (Music Education Majors)

Note(s):

* Requires 20 hours of supervised field experience working with students in a classroom setting.

** [MUE 454](#) also satisfies this credential requirement.

VI. How – Curricular Changes:

- Step 1: In the Catalog Review folder (H:\Catalog Review) provided by the VPAA Office use *track changes* to prepare the proposed catalog text.
- Step 2: Arrange a meeting with the APC chair and Records liaison to review the catalog text proposal and receive assistance in submission of proposed catalog copy. Include this with your proposal.

Total course/unit additions: 0

Total course/unit deletions: 0

Staffing increase/decrease: 0

Library resourcing impact: None

Net Financial impact: None

I have reviewed this proposal and the items above and believe the proposal meets all university requirements, don not impact other departments or programs, and is ready for APC review.

Department or School Direct Report:

_____ Date _____

College Dean or Provost as applicable:

_____ Date _____

Note: Submit completed short form proposal to the APC chair not later than one month prior to the APC meeting at which you hope it can be placed on the agenda.