Ph.D. in Curriculum and Instruction-Specialization in Science Education

Degree Requirements (90 cr.)

Major Requirements (39 cr.)

Science Education (12 cr.)
- Q612 Topical Seminar in Science Education (2-4 cr., taken for a total of 12 cr.)

Science Methods (6 cr.)
Select two courses from the following:
- J762 Topical Seminar in Curriculum and Instruction: Teaching Introduction to Scientific Inquiry (3 cr.)
- Q528 Making for Learning (3 cr.)
- Q540 Teaching Environmental Education (3 cr.)
- Q610: Developing as Teacher Educators for Science or Mathematics
- Q620 University Science Teaching (3 cr.)
- S504 Introduction to STEM Teaching (3 cr.)

Science Education – Content Support (12 cr.)
These courses should consist of a cohesive set of credits that support the students’ research interests and a professional agenda. These courses may be chosen from science content departments, philosophy of science, educational psychology, IST, or another area determined by the student’s committee.
- Q601 Professional Seminar in Science Education (1-3 cr., taken for a total of 3 cr.)

Early Inquiry Experience and Inquiry Linkage (6 cr.)
- J705 Seminar: Inquiry in Curriculum and Instruction (3 cr.)
- Q690 Advanced Research in Science Education (1-6 cr., taken for 3 cr.)

Inquiry Requirements (12 cr.)
- Introductory Course (3 cr.) (e.g.) Y521: Methodological Approaches to Educational Inquiry
- Statistical Techniques (3-6 cr., minimum 3 credits)
- Qualitative Inquiry Approaches (3-6 cr., minimum 3 credits)
- Measurement, Evaluation, and Design (0-3 cr.)

Minor Requirements (12 cr.)
The minor must have integrity in its own right and must complement the major. The minor field must demonstrate wholeness within itself and contribute to the student’s overall doctoral program. Minors are normally formulated within a single program area. However, an interdisciplinary or individualized
minor is also possible. Interdisciplinary or individualized minors require a written description of the minor's underlying theme along with a rationale for each course's contribution to that theme through the Minor Justification form. This form should be submitted and approved by the Graduate Studies Office prior to enrolling in the minor courses.

Elective Requirements (12 cr.)

Selected in consultation with advisory committee. Elective courses are chosen to fill out the major and to contribute to the integrity of the student's program. These courses are taken in the student's area of interest, within or outside the department, in order to fulfill the total program requirement of 90 credit hours.

Dissertation Requirements (15 cr.)

- J795 Dissertation Proposal Preparation (3 cr.)
- J799 Dissertation-Curriculum/Instruction (12 cr.)
Hey,

Sorry the Science Ed vote was 23 in favor, 0 abstain, and 0 no.

I have some additional stuff coming on the grad cert Teaching English Learners- License addition from OCAP I’ll have to you today as well. I can give you some more context on the phone this afternoon. I’m meeting with Lisa from 1-1:15 but otherwise should be around.

Matt

Matthew Boots
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Hi Matt,

I don’t see GSC forms for the PhD specialization in Science Ed or the grad cert Teaching English Learners- License addition. The Agenda Committee would like documentation of departmental votes.

Thanks,
Maria
I just approved the Y660 course change and here are the documents and minutes. Let me know if you need anything else.

Thanks

Matt

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