Proposal for a NEW GRADUATE POLICY or a GRADUATE POLICY CHANGE

Proposed By: John Peters, SMFT Program Director
(PLEASE PRINT NAME) - SIGNATURE


Policy will go into effect: Fall 2016

Indicate whether or not this is a new policy or a policy change

_____ New Policy Description:

Justification:

Relationship to the College of Charleston Strategic Plan and to the strategic plan of the Graduate School:

_____ Policy Change: The proposed policy change is to the Capstone Curriculum section of the requirements for graduation in the MEd. Science & Math program. This policy change will result in a change in the catalog description of the Capstone Curriculum requirements.

• Present Policy:

The current description in the graduate catalog is as follows:

Science and Math for Teachers, M.Ed. Program of Study
A total of 36 credit hours will be required for completion of the program, with at least 30 earned at The Graduate School of the University of Charleston, South Carolina. Courses must be selected from the following four categories:

• Fundamental Education Curriculum (9 credit hours)
• Fundamental Science and Mathematics Curriculum (at least 14 credit hours)
• Integrated Science Courses (at least 6 credit hours) Capstone Experiences which include a Capstone Proposal Course (at least 7 credit hours) including at least one formal presentation
• 75 hours of field experience

Capstone Curriculum (at least 7 credit hours)
EDFS 703 - Curriculum, Policy and Systems in Science & Math (3)
SMFT 698 - Independent Study (1-6)

Revised April 2011
and therefore we must require that all students present to the committee/faculty and their advisor(s) so that we can assess the learning outcomes. The intent of the change is not to discourage students from presenting at conferences, rather it is to ensure that all candidates’ projects are assessed according to the plan we have in place to assess SLOs.

3) The wording for the 4th bullet point under course categories was altered to be consistent with current course titles, and to make it clearer that the Capstone Project Development course (SMFT 690) is a required course in the Capstone Curriculum.

4) The addition to bullet 5 under course categories was added to clarify that these field experience hours are part of 3 required courses in the program, not additional hours above and beyond the required courses.

5) SMFT 698 Independent Study – Currently the program has no mechanism of insuring that a student complete a satisfactory capstone project prior to graduation. Under the current structure, students can take independent study hours while they are working on their project, receive a satisfactory grade prior to presentation of the project, and then present their project in another semester in which they are not taking independent study. So if the student fails to produce a satisfactory project/presentation (as deemed by their advisor and SMFT program steering committee), there is no official way to keep the student from graduating until the project is satisfactory. The added language does this. Additionally, it encourages the program committee to be more deliberative, with regard to the quality of capstone projects and the extent to which the students are meeting the required learning goals of the program. This can foster improved ways of supporting students in this critically important experience.

6) Electives – The number of elective hours in graduate science or math courses was increased to 4 to reflect the fact that many of these courses are 4-hour courses (lecture/lab) and the lab is a required component of the course.

Relationship to the College of Charleston Strategic Plan and to the strategic plan of the Graduate School:

In the main, the proposed changes to the program do not alter the relationship of the program to the strategic plan of the College nor the Graduate School. The requirement that all students present their capstone project to the program’s steering committee and interested faculty insures the continued assessment of the programs SLOs which is consistent with the strategic planning.

Signature of Chair of Graduate Council: __________________________ Date: ________

Presented as information to the Faculty Committee on Graduate Education, Continuing Education and Special Programs: Date: ________

Presented as information to the Faculty Senate: Date: ________

Revised April 2011
Master Education in Science and Math for Teachers (36 credit hours)

DEGREE REQUIREMENTS

- 36 credit hours
- Concentration or Emphasis – none.
- Comprehensive Exams – none.
- Capstone Requirements – Students must complete the capstone curriculum by completing a project associated with at least one course in the program. Students must complete 7 credit hours in the capstone curriculum which includes:
  - Completing of a written capstone proposal in SMFT 690.
  - Submitting a written report of the completed capstone project to the advisor(s) and the program director.
  - Presenting the completed capstone project to the program steering committee members, their advisor(s), program faculty and other interested parties. Students must enroll in at least one credit hour of SMFT 698 during the semester the project is presented.

A total of 36 credit hours will be required for completion of the program, with at least 30 earned at The Graduate School of the University of Charleston, South Carolina. Courses must be selected from the following five categories:

- Fundamental Education Curriculum (9 credit hours)
- Fundamental Science and Mathematics Curriculum (at least 14 credit hours)
- Integrated Science Courses (at least 6 credit hours)
- Capstone Curriculum (at least 7 credit hours) which includes the Capstone Project Development course (SMFT 690)
- 75 hours of field experience associated with EDFS 632, 635 and 660

Fundamental Education Curriculum (9 Credit Hours)

EDFS 632  Education Psychology Learning Cognition and Motivation (3)

EDFS 635  Educational Research (3)

EDFS 660  Nature of Science, Mathematics, and Science/Mathematics Education (3)

Fundamental Science and Mathematics Curriculum

(At least 14 credit hours: a minimum of one mathematics course and two science courses must be taken in this category.) Courses may be selected from:

SMFT 670  Advanced Methods in Science and Mathematics (3)
SMFT 516 Applications Across the Mathematics Curriculum with Technology (3)*

SMFT 524 Space Science for Teachers (4)*

SMFT 639 Genetics and Molecular Biology for Teachers (3)

SMFT 645 Physics of Force and Motion for Teachers (3)

SMFT 647 Determination of the Structure of Matter: Analytical Tools Employed Across the Science Curriculum (3)

SMFT 697 Special Topics in Science or Mathematic for Teachers – if designated as integrate science (1 – 4)

*SMFT 516 and SMFT 524 can be applied to satisfy the required credit hours for either the Fundamental Science and Mathematics Curriculum or the Integrated Science Curriculum - not both.

Capstone Curriculum (at least 7 credit hours from the following):

- 1 credit in SMFT 690 Capstone Project Development
- 6 additional credits in EDFS 703, BIOL 500+, EVSS 500+, SMFT 500+ (with at least 1 credit hour in SMFT 698 to be taken during the semester the student present their final capstone project)
IX. APPROVAL AND SIGNATURES

Signature of Program Director: ___________________________ Date: ____________

Signature of Department Chair: ___________________________ Date: ____________

Signature of Additional Chair*: ___________________________ Date: ____________

Signature of Schools' Dean: ___________________________ Date: ____________

Signature of Additional Schools’ Dean*: ___________________________ Date: ____________

Signature of the Provost: ___________________________ Date: 3/18/16

Signature of Budget Director/Business Affairs Office: ___________________________ Date: ____________

*For interdisciplinary courses

Return form to the Graduate School Office for Further Processing

Signature of Chair of the Faculty Committee on Graduate Education, Continuing Education & Special Programs: ___________________________ Date: 3/25/16

Signature of Chair of the Graduate Council: ___________________________ Date: 3/28/16

Signature of Faculty Senate Secretary: ___________________________ Date: ____________

Date Approved by Faculty Senate: ___________________________
Master Education in Science and Math for Teachers (36 credit hours)

DEGREE REQUIREMENTS

- 36 credit hours
- Concentration or Emphasis – none.
- Comprehensive Exams – none.
- Capstone Requirements – Students must complete the capstone curriculum by completing a project associated with at least one course in the program. Students must complete 7 credit hours in the capstone curriculum which includes:
  - Completing of a written capstone proposal in SMFT 600.
  - Submitting a written report of the completed capstone project to the advisor(s) and the program director.
  - Presenting the completed capstone project to the program steering committee members, their advisor(s), program faculty and other interested parties. Students must enroll in at least one credit hour of SMFT 698 during the semester the project is presented.

A total of 36 credit hours will be required for completion of the program, with at least 30 earned at The Graduate School of the University of Charleston, South Carolina. Courses must be selected from the following five categories:

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- Integrated Science Courses (at least 6 credit hours)
- Capstone Curriculum (at least 7 credit hours) which includes the Capstone Project Development course (SMFT 690)
- 75 hours of field experience associated with EDFS 632, 635 and 660

Fundamental Education Curriculum (9 Credit Hours)

EDFS 632  Education Psychology Learning Cognition and Motivation (3)
EDFS 635  Educational Research (3)
EDFS 660  Nature of Science, Mathematics, and Science/Mathematics Education (3)

Fundamental Science and Mathematics Curriculum

(At least 14 credit hours: a minimum of one mathematics course and two science courses must be taken in this category.) Courses may be selected from:

SMFT 670  Advanced Methods in Science and Mathematics (3)
SMFT 516 Applications Across the Mathematics Curriculum with Technology (3)*

SMFT 524 Space Science for Teachers (4)*

SMFT 639 Genetics and Molecular Biology for Teachers (3)

SMFT 645 Physics of Force and Motion for Teachers (3)

SMFT 647 Determination of the Structure of Matter: Analytical Tools Employed Across the Science Curriculum (3)

SMFT 697 Special Topics in Science or Mathematic for Teachers – if designated as integrate science (1 – 4)

*SMFT 516 and SMFT 524 can be applied to satisfy the required credit hours for either the Fundamental Science and Mathematics Curriculum or the Integrated Science Curriculum - not both.

Capstone Curriculum - at least 7 credit hours from the following:
- 1 credit in SMFT 690 Capstone Project Development
- 6 additional credits in EDFS 703, BIOL 500+, EVSS 500+, SMFT 500+ (with at least 1 credit hour in SMFT 698 to be taken during the semester the student present their final capstone project)
Can you print this and attach it to the SMFT proposal and bring it up the graduate school?

Sent from my iPhone

Begin forwarded message:

From: "Peters, John S" <PetersJ@cofc.edu>
Date: March 11, 2016 at 11:03:26 AM EST
To: "Francis, Conseula A" <FrancisC@cofc.edu>
Subject: RE: SMFT proposal

This is fine, but I do not think there should be a "+" after EDFS 703 in the capstone section. EDFS 703 is the only course that is acceptable...NOT 703 plus course numbered higher. Other than that, it looks fine. Thanks for putting up with the back and forth on this...
John

John S. Peters, Ph. D.
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66 George St.
Charleston, SC 29424
Office – 142 SSMB
www.petersj.people.cofc.edu

From: Francis, Conseula A
Sent: Friday, March 11, 2016 7:19 AM
To: Peters, John S <PetersJ@cofc.edu>
Subject: RE: SMFT proposal

How about this, John. I think it captures the what you want to communicate to students and what you require.

A total of 36 credit hours will be required for completion of the program, with at least 30 earned at The Graduate School of the University of Charleston, South Carolina. Courses must be selected from the following five categories:

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- Integrated Science Courses (at least 6 credit hours)
- Capstone Curriculum (at least 7 credit hours) which includes the Capstone Project Development course (SMFT 690)
• 75 hours of field experience associated with EDFS 632, 635 and 660

Capstone Requirements – Students must complete the capstone curriculum by completing a project associated with at least one course in the program. Students must complete 7 credit hours in the capstone curriculum which includes
• Completing of a written capstone proposal in SMFT 690.
• Submitting a written report of the completed capstone project to the advisor(s) and the program director.
• Presenting the completed capstone project to the program steering committee members, their advisor(s), program faculty and other interested parties. Students must enroll in at least one credit hour of SMFT 698 during the semester the project is presented.

Capstone Curriculum (at least 7 credit hours from the following):
- 1 credit in SMFT 690 Capstone Project Development
- 6 additional credits in BIOL 500+, EVSS 500+, EDFS 703, SMFT 500+ (with at least 1 credit hour in SMFT 698 to be taken during the semester the student present their final capstone project)