

# CBC



## THE GRADUATE SCHOOL

### CURRICULUM AND BULLETIN CHANGES

Mail to:  
The Graduate School  
901 Sumter St. #304  
Columbia, SC 29208

Fax to:  
803-777-2972

1. Requestor fills in form in PDF (you can save this form with Adobe Reader).
2. Requestor e-mails form in PDF and applicable attachment(s) (in MS Word) to gradcurr@mailbox.sc.edu.
3. Requestor then obtains signatures from department chair and academic dean, and mails signed copy of the form to The Graduate School.

Department/College: Instruction and Teacher Education



**Graduate**



**Curriculum Change. List program involved, and justification for the change.**



**Graduate/Undergraduate Bulletin Change.**

Attach the proposed wording change. The changes must be shown exactly as they are to appear in the *Bulletin*. A two-column format showing both the old wording (on the left) and the new wording (on the right) is required. Please indicate the current page(s) of the *Bulletin* where the old wording appears.

Requested **Effective Term** for addition to database. 

Term	Year
Fall	2009

Contact Person: Irma Van Scoy

Phone: 777-3-75

Email: ivanscoy@mailbox.sc.edu

=====  
**Endorsements:**

Department Chair: Diane Stephens

Date: 5/1/09

Academic Dean: \_\_\_\_\_

Date: \_\_\_\_\_

## I.M.A. Reference in Instruction and Teacher Education

Current Bulletin	Revised Bulletin
<p data-bbox="94 243 488 275"><b>Interdisciplinary Master of Arts</b></p> <p data-bbox="94 310 711 646">The I.M.A. degree is an interdisciplinary degree designed for students who hold a professional teaching certificate or who are academically eligible for a certificate by virtue of course work previously earned. Major emphasis is placed on course work in the teaching/content area. The program requires a minimum of 33 hours, consisting of at least 21 hours of content area courses, 9 hours of professional education courses, and 3 hours of electives. Each candidate must successfully complete a comprehensive examination.</p>	<p data-bbox="735 243 1130 275"><b>Interdisciplinary Master of Arts</b></p> <p data-bbox="735 310 1344 646"><del>The I.M.A. degree is an interdisciplinary degree designed for students who hold a professional teaching certificate or who are academically eligible for a certificate by virtue of course work previously earned. Major emphasis is placed on course work in the teaching/content area. The program requires a minimum of 33 hours, consisting of at least 21 hours of content area courses, 9 hours of professional education courses, and 3 hours of electives. Each candidate must successfully complete a comprehensive examination.</del></p>

### Rationale

The Interdisciplinary Master of Arts degrees were created over twenty years ago to provide degrees through which certified teachers could focus primarily on developing content knowledge related to specific disciplines (e.g., science, English, business education). At one time, there were at least nine IMA degrees at USC which have been shared degrees between the College of Education and each discipline area. Five IMAs were terminated in 2001 due to low enrollments and areas deciding to provide other alternatives (e.g., non-thesis options in MAs). Three of the remaining four IMA programs are currently terminating their IMA degrees (Business Education, Science, and Physical Education). These programs are utilizing a relatively new degree, the M.Ed. in Teaching, to provide a master's degree for teachers that includes significant course work in a specific content area. This will leave Art Education as the only area with an IMA degree.

Given that we have transitioned from multiple IMA degrees to only one and that the faculty in the remaining area (art education) have the expertise to offer appropriate education course work for P-12 educators in their area, the College of Education is turning sole ownership of the IMA in Art Education to the College of Arts and Sciences. The degree will still technically be part of the education accreditation review as long as it is identified as an advanced program for teachers (as are many other programs outside the College of Education).

With the elimination of all other IMA degrees and recognition of Arts and Sciences as the home of the IMA in Art Education, there is no need for a reference to IMA degrees in the College of Education Department of Instruction and Teacher Education in the graduate bulletin.

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Department/College: Department of Physical Education and Athletic Training



Graduate



Curriculum Change. List program involved, and justification for the change.

We wish to delete the IMA in Physical Education degree. We will begin steps to integrate a concentration in physical education within the existing ME.D in education. We still have a few students enrolled in the IMA degree. WE seek permission for these students to complete the degree. New applicants to the IMA degree would be directed to enroll in the ME.D. in education.



Graduate/Undergraduate *Bulletin* Change.

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Requested Effective Term for addition to database. 

<u>Term</u>	<u>Year</u>
Fall	2009

Contact Person: Karen French

Phone: 777-3172

Email: kfrench@mailbox.sc.edu

=====  
**Endorsements:**

Department Chair: Karen French

Date: 5/5/09

Academic Dean: \_\_\_\_\_

Date: \_\_\_\_\_

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Department/College: College of Arts and Sciences and College of Education

Graduate

Curriculum Change. List program involved, and justification for the change.

We propose to terminate the IMA in Science degree.

Graduate/Undergraduate Bulletin Change.

Attach the proposed wording change. The changes must be shown exactly as they are to appear in the *Bulletin*. A two-column format showing both the old wording (on the left) and the new wording (on the right) is required. Please indicate the current page(s) of the *Bulletin* where the old wording appears.

	Term	Year
Requested Effective Term for addition to database.	Fall	2009

Contact Person: Mary Ann Byrnes

Phone: 777-5371

Email: byrnes@sc.edu

Endorsements:

*\* see attached memorandum from Dr. Best Ely*

Department Chair: M. A. Byrnes\*

Date: \_\_\_\_\_

Academic Dean: M. A. Byrnes

Date: 4/16/2009

## Rationale

The I.M.A. in Science was created over twenty years ago to provide a degree through which certified teachers could focus primarily on developing content knowledge related to science education (24 hours) while also taking some advanced work in education (9 hours), for a total of 33 hours. Enrollments in the degree have been consistently low.

The College of Education now offers a degree, M.Ed. in Teaching, which provides the flexibility to allow teachers interested in science education to take up to 24 hours in science education course work along with a required core of 9 hours in education and at least 3 additional hours in related course work. The M.Ed. in Teaching requires a total of 36 hours. The degree requirements include an area of inquiry and research project that can focus on science education.

In addition, the core courses of the M.Ed. program provide a venue for bringing together teachers from many different curriculum areas and grade levels. Interaction between students with many different perspectives based on their varied work environments and experiences is beneficial to students educationally. Combining students from degrees and courses with small numbers for core courses also makes good economic sense.

In sum, the M.Ed. in Teaching provides an excellent alternative to the I.M.A. in Science. **Thus, in cooperation with the College of Education, the College of Arts and Sciences proposes the elimination of the IMA in Science degree.** The College of Arts and Sciences and the College of Education look forward to their continued collaboration to meet the needs of teachers, schools, and districts in science education.

Note: There are currently no students enrolled in the I.M.A. in Science. Any students expressing interest will be advised into the M.Ed. in Teaching.

Degrees Offered on the Columbia Campus

CURRENT		PROPOSED	
Sciences	M.A.T., Arts and I.M.A. Sciences/Education	Sciences	M.A.T., Arts and <del>I.M.A.</del> Sciences/Education

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Department/College: Department of Physics and Astronomy/College of Arts and Sciences



Graduate



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Graduate/Undergraduate Bulletin Change.

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Requested Effective Term for addition to database. 

Term	Year
Fall	2009

Contact Person: Jeffrey R. Wilson

Phone: 7-4650

Email: jwilson@sc.edu

Endorsements:

Department Chair: Chaden Ojalali

Date: 4/14/09

Academic Dean: M. G. Boyer

Date: 4/16/2009

CURRENT	PROPOSED
<p><b>Overview</b>  The Department of Physics and Astronomy offers strong traditional curricula at the graduate level with additional courses in research. Comprehensive experimental research programs are available in high-energy physics, nuclear/intermediate energy physics, condensed matter physics/nanoscience, and astrophysics. There are broad efforts in theoretical research with programs in the foundations of quantum theory, nuclear and particle physics, statistical/condensed matter physics, cosmology and astrophysics, and computational physics.</p> <p>The Department of Physics and Astronomy offers the degrees of Master of Science, Professional Science Master (area of emphasis: modeling for corporate applications*), and Doctor of Philosophy. In cooperation with the College of Education, the department also offers the Master of Arts in Teaching in Sciences (Physics Option) and the Interdisciplinary Master of Arts in Sciences (Physics Option).</p> <p>*The Professional Science Master program is not currently accepting applicants into the modeling for corporate applications emphasis.</p>	<p><b>Overview</b>  The Department of Physics and Astronomy offers strong traditional curricula at the graduate level with additional courses in research. Comprehensive experimental research programs are available in high-energy physics, nuclear/intermediate energy physics, condensed matter physics/nanoscience, and astrophysics. There are broad efforts in theoretical research with programs in the foundations of quantum theory, nuclear and particle physics, statistical/condensed matter physics, cosmology and astrophysics, and computational physics.</p> <p>The Department of Physics and Astronomy offers the degrees of Master of Science, Professional Science Master (area of emphasis: modeling for corporate applications*), and Doctor of Philosophy. <del>In cooperation with the College of Education, the department also offers the</del> <u>The Master of Arts in Teaching in Sciences (Physics Option) and the Interdisciplinary Master of Arts in Sciences (Physics Option) is offered in cooperation with the College of Education.</u></p> <p>*The Professional Science Master program is not currently accepting applicants into the modeling for corporate applications emphasis.</p>

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Department/College:

Graduate

Curriculum Change. List program involved, and justification for the change.

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Term	Year
Fall	2009

Contact Person:

Phone:

Email:

=====  
**Endorsements:**

Department Chair: \_\_\_\_\_

*Michael D. Dukes for JHD*

Date: *4/15/09*

Academic Dean: \_\_\_\_\_

*M. G. Boyer*

Date: *4/16/2009*

Department of Chemistry and Biochemistry

CURRENT	PROPOSED
<p><b>Overview</b>                      The Department of Chemistry and Biochemistry offers programs leading to the Ph.D. degree, with concentrations in analytical, biological, inorganic, organic, and physical chemistry. The Ph.D. program is flexible and is designed to maximize research opportunities and to encourage interdisciplinary research. Master of Science degrees in the same areas of concentration are awarded. The Master of Arts in Teaching in Science (Chemistry and Biochemistry Option) and the Interdisciplinary Master of Arts in Science (Chemistry and Biochemistry Option) are offered in cooperation with the College of Education.</p>	<p><b>Overview</b>                      The Department of Chemistry and Biochemistry offers programs leading to the Ph.D. degree, with concentrations in analytical, biological, inorganic, organic, and physical chemistry. The Ph.D. program is flexible and is designed to maximize research opportunities and to encourage interdisciplinary research. Master of Science degrees in the same areas of concentration are awarded. The Master of Arts in Teaching in Sciences (Chemistry and Biochemistry Option) and the <del>Interdisciplinary Master of Arts in Science (Chemistry and Biochemistry Option)</del> are <u>is</u> offered in cooperation with the College of Education.</p>

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Department/College: Department of Geological Sciences/College of Arts and Sciences

Graduate

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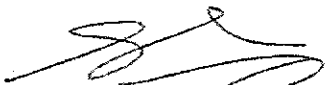
Requested Effective Term for addition to database. 

Term	Year
Fall	2009

Contact Person: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Endorsements:

Department Chair:  Date: 06-15-09

Academic Dean:  Date: 4/16/2009

Department of Geological Sciences

CURRENT	PROPOSED
<p><b>Overview</b>                      The Department of Geological Sciences offers programs leading to the M.S. and Ph.D. degrees in geological sciences. Faculty research covers all aspects of earth and ocean sciences and is divided into three thematic areas: Environmental Geoscience --geologic aspects of coastal and terrestrial environmental sciences, including coastal physical and chemical processes, hydrology, aqueous geochemistry, sediment and contaminant transport, environmental geophysics; Evolution of Orogenic Systems--an understanding of the physical and chemical processes controlling the formation and evolution of the planet Earth is critical to many issues of fundamental and societal importance, including identification and mitigation of geologic hazards and the maintenance of a sufficient supply of natural resources; and Global Climate Change--understanding of and adjustment to geological, geochemical, and geophysical influences on global climate change is of critical concern for the coming decades. Available fields of research include coastal processes, environmental geosciences, geochemistry, geophysics, global climate change, hydrocarbon exploration, oceanography, paleoceanography, paleoclimatology, petrology, remote sensing, sedimentology, seismology, structural geology, and tectonics. Students interested in pursuing degrees in geoscience education are referred to the Master of Arts in Teaching in science (earth science option) and the Interdisciplinary Master of Arts in Science (earth science option) programs available through the College of Education.</p>	<p><b>Overview</b>                      The Department of Geological Sciences offers programs leading to the M.S. and Ph.D. degrees in geological sciences. Faculty research covers all aspects of earth and ocean sciences and is divided into three thematic areas: Environmental Geoscience --geologic aspects of coastal and terrestrial environmental sciences, including coastal physical and chemical processes, hydrology, aqueous geochemistry, sediment and contaminant transport, environmental geophysics; Evolution of Orogenic Systems--an understanding of the physical and chemical processes controlling the formation and evolution of the planet Earth is critical to many issues of fundamental and societal importance, including identification and mitigation of geologic hazards and the maintenance of a sufficient supply of natural resources; and Global Climate Change--understanding of and adjustment to geological, geochemical, and geophysical influences on global climate change is of critical concern for the coming decades. Available fields of research include coastal processes, environmental geosciences, geochemistry, geophysics, global climate change, hydrocarbon exploration, oceanography, paleoceanography, paleoclimatology, petrology, remote sensing, sedimentology, seismology, structural geology, and tectonics. Students interested in pursuing degrees in geoscience education are referred to the Master of Arts in Teaching in <u>Sciences</u> (earth sciences option) <del>and the Interdisciplinary Master of Arts in Science (earth science option) programs available through</del> <u>offered in cooperation</u> with the College of Education.</p>

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Department/College:



**Graduate**



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Term	Year
Fall	2009

Contact Person:

Phone:

Email:

Endorsements:

Department Chair: \_\_\_\_\_

Date: 4/14/09

Academic Dean: \_\_\_\_\_

Date: 4/16/2009

Department of Biological Sciences  
Section of Graduate Bulletin

CURRENT	PROPOSED
<p><b>Overview</b> The Department of Biological Sciences offers programs leading to the Master of Science and Doctor of Philosophy degrees. The Master of Arts in Teaching in Sciences (biology option) and the Interdisciplinary Master of Arts in Sciences (biology option) are offered in cooperation with the College of Education.</p>	<p><b>Overview</b> The Department of Biological Sciences offers programs leading to the Master of Science and Doctor of Philosophy degrees. The Master of Arts in Teaching in Sciences (biology option) <del>and the Interdisciplinary Master of Arts in Sciences (biology option)</del> <u>are</u> is offered in cooperation with the College of Education.</p>

## **BYRNES, MARY ANN**

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**From:** Dr. Bert Ely [ely@sc.edu]  
**Sent:** Wednesday, April 15, 2009 12:55 PM  
**To:** FITZPATRICK, MARY ANNE; STERNBERG, LES  
**Cc:** BYRNES, MARY ANN; VANSCOY, IRMA  
**Subject:** IMA in natural sciences

After investigating the option of using the M. Ed. degree to meet the needs of middle school science teachers, the Center for Science Education has decided to abandon the IMA degree and the complexities associated with its retention. Instead we will actively recruit science teachers to seek the M. Ed. degree and tailor their individual programs to meet their science content needs.

Bert

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Fax to:  
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Department/College: College of Education and College of Hospitality, Retail and Sport Management

Graduate

Curriculum Change. List program involved, and justification for the change.

We propose to terminate the IMA in Business Education.

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Requested Effective Term for addition to database. 

<u>Term</u>	<u>Year</u>
Fall	2009

Contact Person: Irma Van Scoy

Phone: 803-777-3075

Email: ivanscoy@mailbox.sc.edu

=====  
**Endorsements:**

Department Chair: \_\_\_\_\_ Date: \_\_\_\_\_

Academic Dean: \_\_\_\_\_ Date: \_\_\_\_\_

## **Rationale**

The I.M.A. in Business Education was created over twenty years ago to provide a degree through which certified teachers could focus primarily on developing content knowledge related to business education (21-24 hrs.) while also taking some advanced work in education (9-12 hrs.). Enrollments in the degree have been consistently low. Feedback from students indicates that taking more education hours would better meet their professional needs.

The College of Education now offers a degree, M.Ed. in Teaching, which provides the flexibility to allow teachers interested in business education to take the 12 credits of core courses offered by HRSM in business/technology education and build the remainder of their program to meet their needs (including significant course work in education). The degree requirements include an area of inquiry and research project which could also focus on business/technology education. In addition, the M.Ed. provides a venue for bringing together teachers from many different curriculum areas and grade levels. Interaction between students with many different perspectives based on their varied work environments and experiences is beneficial to students educationally. Combining students from degrees and courses with small numbers also makes good economic sense.

In sum, the M.Ed. in Teaching provides an excellent alternative to the I.M.A. in Business Education. The Colleges of Education and Hospitality, Retail, and Sport Management look forward to their continued collaboration to meet the needs of teachers, schools, and districts in business education.

Note: There are currently no students enrolled in the I.M.A. in Business Education. Any student expressing interest are being advised into the M.Ed. in Teaching.

**I.M.A. in Business Education**  
**College of Hospitality, Retail, and Sport Management**  
**Proposed Bulletin Description**

Current Bulletin	Revised Bulletin
<p><b>Overview</b></p> <p>The College of Hospitality, Retail, and Sport Management is authorized to award the Master of International Hospitality and Tourism Management through the School of Hotel, Restaurant, and Tourism Management; the Master of Retailing through the Department of Retailing; and the Master of Sport and Entertainment Management through the Department of Sport and Entertainment Management. The program in technology support and training management cooperates with the College of Education to award the M.A.T. and I.M.A. in business education. Graduate courses offered by the various departments of the college may contribute to teacher certification.</p> <p><b>Interdisciplinary Master of Arts in Business Education</b></p> <p>The I.M.A. degree for secondary school teachers is designed for college graduates who already hold a professional certificate in the teaching field in which they wish to earn the master's degree or who are academically certifiable by virtue of course work previously completed. Upon successful completion of the I.M.A. degree program, recipients will be eligible for a South Carolina Class I certificate in the teaching area. Major emphasis in this program is placed on course work in the teaching area.</p> <p>The program consists of 33 semester hours of graduate courses distributed as follows:</p> <p style="padding-left: 40px;">Professional education component (9 hours)  Teaching area(s) component (21 hours)  An approved elective (3 hours—This will be a course that addresses current issues and concerns of teachers.)</p> <p>The professional education component requires an introductory, graduate-level course in educational research; a specialized course in advanced study of teaching in a field that is research-centered; and an advanced course in educational psychology, research and measurement, principles of curriculum construction, supervision of instruction, advanced readings in secondary education, or a course in selected topics.</p> <p>A final comprehensive exam, consisting of written and oral components, will be administered by three faculty members appointed by the director of the program. If the candidate fails the examination twice, the program is terminated.</p> <p>While individual programs are similar in structure, there is sufficient flexibility to meet student needs in teaching areas and to develop professional knowledge.</p>	<p><b>Overview</b></p> <p>The College of Hospitality, Retail, and Sport Management is authorized to award the Master of International Hospitality and Tourism Management through the School of Hotel, Restaurant, and Tourism Management; the Master of Retailing through the Department of Retailing; and the Master of Sport and Entertainment Management through the Department of Sport and Entertainment Management. The program in technology support and training management cooperates with the College of Education to award the M.A.T. in business education. Graduate courses offered by the various departments of the college may contribute to teacher certification.</p>