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### Curriculum Committee Report - April 13, 2006

Graduate Council

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GRADUATE CURRICULUM COMMITTEE  
THURSDAY, APRIL 13, 3:30 P.M.  
4<sup>th</sup> FLOOR CONFERENCE ROOM, ANDY HOLT TOWER

Present: David Golden (Chair), David Anderson, Paul Frymier, Tom George, Jan Lee, Stefanie Ohnesorg, Lloyd Rinehart, Susan Smith, John Wodarski. Also attending were Jack Dongarra and Terry Moore to support the interdisciplinary minor program proposal.

The meeting was called to order at 3:30 p.m. by David Golden, Chair. The following items were recommended to the Graduate Council for approval:

- Interdisciplinary Graduate Minor in Computational Science (IGMCS).
- College of Education, Health, and Human Sciences—

Course changes: Child & Family Studies, Educational Psychology & Counseling, Instructional Technology, Health, & Educational Studies, Nutrition, and Theory & Practice in Teacher Education.

Program changes: Add Graduate Certificate in Educational Administration (PreK-12) and revise Master of Science with a major in Educational Administration.

- College of Nursing—

Program change: Add Graduate Certificate in Homeland Security Studies.

The meeting was adjourned at 5:00 p.m.

# COLLEGE OF ARTS AND SCIENCES

All changes effective fall 2007

## **PROGRAM CHANGES**

### **DEPARTMENT OF COMPUTER SCIENCE**

#### **ADD INTERDISCIPLINARY GRADUATE MINOR IN COMPUTATIONAL SCIENCE (IGMCS)**

On page 72 of the 2005-2006 Graduate Catalog add Interdisciplinary Graduate Minor in Computational Science (IGMCS). The Interdisciplinary Graduate Minor in Computational Science (IGMCS) is a formal academic program at the University of Tennessee established to allow students to earn a minor in Computational Science simultaneously with a master's or doctorate in another academic discipline. The program is open to graduate students in all departments, which have an approved minor. The program is administered by a committee composed of representatives, including program faculty, from all colleges that have approved the IGMCS program and which have minor programs.

#### **REQUIREMENTS**

Hours in Approved IGMCS Courses

Master's in home department, minor in computational science.....	9
Doctorate in home department, minor in computational science.....	15

Computational Science is an emerging field of study that is truly interdisciplinary, with participating faculty from Mathematics, Computer Science, and many "Domain Sciences" across the curriculum that have embraced computationally intensive methods. Since Computational Science demands some basic level of understanding and skill in all three of these discipline clusters, the IGMCS program is designed to provide students seeking an advanced degree in one of these three areas with the knowledge and experience in the other two that is necessary to round out their education. Course options consist of courses in Mathematics, Computer/Information Science, and other participating departments selected according to a plan approved by the respective home departments, which then must be approved by the IGMCS Program Committee.

#### **PROCEDURES**

The student's home department (i.e. the department in which the student is currently pursuing an advanced degree) must have approved a program of courses with the IGMCS Program Committee prior to declaration of the IGMCS minor. That program will specify the sequences of Computational Science courses, selected from the IGMCS approved list, which are considered appropriate by the home department, and the home department must verify fulfillment of non-computational science degree requirements. Students wishing to participate in this program should contact their college representatives or the Chair of the IGMCS Program Committee.

The student's graduate committee must include a member of the IGMCS faculty.

The student's Admission to Candidacy form must contain all courses required for the chosen degree program delineated and labeled "Computational Science courses required for the minor in computational science." Should the student decide not to apply for admission to the program until after completion of some of the courses, the student's major professor should file a program change with the cooperating departments and assist the student in obtaining an IGMCS faculty member to serve on the student's graduate committee.

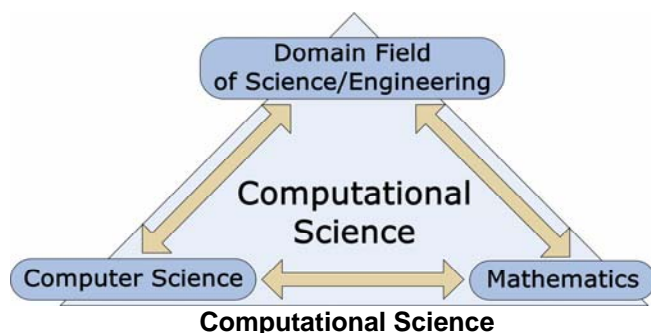
Successful completion of the minor in Computational Science is recognized by appropriate documentation on the student's transcript. Students who do not complete the requirements of the minor will still receive academic credit for the computational science courses they have successfully completed.

For more information contact Dr. Terry Moore at [tmoore@cs.utk.edu](mailto:tmoore@cs.utk.edu) or visit <http://citr.cs.utk.edu/igmcs/>

## IGMCS Background Information/Rationale

The Interdisciplinary Graduate Minor in Computational Science (IGMCS) is an interdisciplinary, University of Tennessee academic program established to recognize graduate students for completing the requirements of a minor in Computational Science at either the Masters or PhD level. The Program enables a student to obtain a minor in Computational Science simultaneously with a graduate degree in a participating department. Computational Science is an emerging field of study that is truly interdisciplinary, with participating faculty from Mathematics, Computer/Information Science, and many "Domain Sciences" across the curriculum that have embraced computationally intensive methods. Since Computational Science demands some basic level of understanding and skill in all three of these discipline clusters, the IGMCS program is designed to provide students seeking an advanced degree in one of these three areas with the knowledge and experience in the other two that is necessary to round out their education. Course options consist of courses in Mathematics, Computer/Information Science, and other participating departments selected according to a plan approved by the respective home departments, which then must be approved by the IGMCS Program Committee.

**Figure 1. Conceptual diagram of the three discipline groups that converge in**



The Program is administered by a Program Committee with advisory input from the Program Faculty and is open to graduate students in departments that offer a minor through their graduate program. Successful completion of the minor at either the Masters or PhD level is recognized by appropriate documentation on the student's transcript. Students who do not complete all requirements for the minor will still receive academic credit for all approved Computational Science courses they have successfully completed.

### I. STUDENT REQUIREMENTS FOR ADMISSION AND COMPLETION OF THE PROGRAM

1. The student's home department (i.e. the department in which the student is currently pursuing an advanced degree) must have an approved degree program with the IGMCS Program Committee. That program will specify the sequences of Computational Science courses chosen from the IGMCS approved list that are considered appropriate by the student's home department.
2. The student's Admission to Candidacy form must contain all courses required for the chosen Computational Science degree program set off in a group and labeled as "Courses Required for the Minor in Computational Science." It may be that a student does not decide to apply for participation in the Program until he/she has already completed one or two approved Computational Science courses. In that case, the student's major professor should file a program change with the cooperating departments and assist the student in obtaining a IGMCS program faculty member to serve on the student's committee.
3. The student's graduate committee must include one member of the IGMCS program faculty.

### II. PROGRAM REQUIREMENTS

Program requirements are specified in terms of completion of course options for both Masters level and PhD level. Options consist of courses from the three different but complementary disciplines; Computer Science/Information Science, Applied Mathematics, and a domain science (eg., Physics, Chemistry, Engineering, etc.). The courses chosen must be reviewed and approved by the Program Committee. Specific program requirements for a given academic unit are available from the College Representative or the Chair of the Program Committee.

- At the Masters level, a minor in Computational Science will require 9 hours total (3 courses) with 3 hours (1 course) from each of the two non-home Program disciplines listed above. For example, a student whose home discipline is Computer Science must complete 9 hours of approved Program courses with a minimum of 3 hours (1 course) from each of the other two discipline groups (Applied Mathematics and domain science/engineering).
- At the Doctoral level a minor in Computational Science will require 15 hours total (5 courses) from the three disciplines.
  - ☐ At least 9 hours (3 courses) must be taken outside the student's home discipline.
  - ☐ Students must take at least 3 hours (1 course) from each of the two non-home disciplines.

### III. PROGRAM OPTIONS

Students may satisfy three hours of the Program requirement by successfully completing a one semester Internship outside of the student's major. The internship may be taken offsite, e.g. Oak Ridge National Laboratory (ORNL), or on campus by working with a faculty member in a department other than the student's home department. Students should work with the chair or other member of their graduate committee to put together an appropriate internship. The internship is strongly encouraged and must have the approval of the IGMCS Program Committee prior to the start of the internship period.

### IV. PROGRAM ADDITIONS AND MODIFICATIONS

Academic departments with existing or planned graduate degree programs are invited to submit requests for participation to the Program Committee. Applications should indicate which degree program options (eg., Masters and/or PhD) are to be included and which courses are to be accepted for each of the options. It is expected that courses will generally be equivalent to existing graduate level courses in the participating departments. The Program Committee representative (College Representative) from the applicant's college may assist in developing the application.

Suggested program modifications that have been approved by the faculty of the participating academic unit should be sent to the College Representative, who in turn will bring them to the attention of the Program Committee for final approval.

The policies and operational guidelines approved by the Faculty Senate for the Interdisciplinary Graduate Minor in Computational Science are flexible so that approval for new programs or modification of existing ones can be given with a minimum of delay. Interested students can be admitted provisionally to the Program at the same time that the sponsoring department is applying for approval of its degree program.

### V. PROGRAM ADMINISTRATION

The Program Faculty is composed of members of participating IGMCS departments and other individuals with relevant expertise who have been nominated for membership by their respective department heads and approved by the Program Committee. The Program Committee, a subset of the Program Faculty, is responsible for making administrative decisions and for formulation and implementation of Program policies.

The structure and responsibilities of the Program Faculty and the Program Committee are outlined below.

### VI. PROGRAM FACULTY

#### Membership

- a. All members of the participating departments, with rank of assistant professor or above, who teach courses that are part of the IGMCS Program, and other departmental members approved by the IGMCS Program Committee.
- b. Any faculty member with rank of assistant professor or above nominated for membership by the respective department head and formally approved for membership by the Program Committee. The IGMCS Program Committee may also review an applicant's resume with respect to the person's professional training, interests and activities in research and/or graduate level teaching. The applicant must submit evidence of research which includes significant development of theory or applications within their discipline. The applicant may also be requested to submit evidence of graduate courses taught which he or she deems relevant and appropriate for the Program.

#### Responsibilities

- a. To teach courses approved for the Program. These courses may or may not be in the instructor's assigned department. All teaching across departmental lines will be funded by the department offering the courses. Teaching across departmental lines will be encouraged.
- b. To direct graduate student research as required
- c. To serve on graduate committees of students

### VII. PROGRAM COMMITTEE

#### Membership

- a. Program Committee members must be IGMCS Faculty members
- b. Chairperson
- c. 1-2 representatives from each of the colleges involved, appointed by the Dean of that college
- d. All appointments will be for renewable two-year terms

#### Responsibilities of the Chairperson

- a. To implement the decisions of the Program Committee
- b. To call meetings, when appropriate, to ensure the well-being of the Program
- c. To present an annual report to the Dean of the Graduate School
- d. To respond to requests for program review from either the Program Committee or the Graduate School

#### Responsibilities of the Program Committee

- a. To determine minimum requirements for Program minors
- b. To approve degree programs and courses nominated for inclusion in the Program
- c. To maintain a procedure and criteria for approving nominated faculty for membership in the Program Faculty
- d. To maintain a system for evaluating courses nominated for inclusion in the Program and for evaluating approved Program courses periodically
- e. To work with heads of participating departments in scheduling courses to allow for timely completion of course sequences
- f. To work with heads of participating departments in developing course titles which reflect appropriate content
- g. To maintain a procedure by which unresolved differences among members of the Program Committee or petitioners can be forwarded to the respective Deans and the Dean of the Graduate School

## COLLEGE OF EDUCATION, HEALTH, AND HUMAN SCIENCES

All changes effective fall 2007 unless otherwise noted \*

### **I. COURSE CHANGES**

#### **DEPARTMENT OF CHILD AND FAMILY STUDIES**

APPROVAL FOR NON-STANDARD FORMAT COURSE

##### **512 Survey of Research in Early Childhood Education (3)**

**Projected Dates for Session:** July 10 – August 2.

**Total Number of Weeks:** Four Weeks.

**Total Number of Contact Hours:** 2700 minutes (45 contact hours).

**Description of Course:** This course is a required course for master's students in the Early Childhood Education track. It will be offered second session summer but will end one week early. There will be two class sessions per week (MW 9:15-2:55). The course will meet on campus in a regular classroom setting.

**Effective Term:** Summer 2006

#### **DEPARTMENT OF EDUCATIONAL PSYCHOLOGY AND COUNSELING**

##### **(255) Counselor Education**

REVISE (DE) PREREQUISITES AND COMMENT

##### **555 Practicum in Counseling (3)**

*(DE) Prerequisite(s): 551, 550 or 556, 554.*

*Comment(s): Admission to school counseling or mental health counseling program is required.*

Formerly: (DE) Prerequisite(s): 431, 525, and 551.

Comment(s): Admission to program is required.

ADD COMMENT AND REVISE (DE) PREREQUISITES

##### **558 Internship in School Counseling (1-6)**

*(DE) Prerequisite(s): 555 and 525.*

*Comment(s): Admission to school counseling program required.*

Formerly: (DE) Prerequisite(s): 550.

REVISE (DE) PREREQUISITE

##### **559 Internship in Mental Health Counseling (1-6)**

*(DE) Prerequisite(s): 555 and 525.*

Formerly: (DE) Prerequisite(s) 555.

##### **(461) Higher Education Administration**

APPROVAL FOR NON-STANDARD FORMAT COURSE

##### **536 Policy Issues in Higher Education Quality Assurance (3)**

**Projected Dates for Session:** 8:00 a.m. – 4:00 p.m. Four Saturdays and one Friday in First Session Summer 2006.

**Total Number of Weeks:** Five Weeks.

**Total Number of Contact Hours:** 2250 minutes (45 contact hours).

**Description of Course:** This is a seminar course designed to explore the heritage, the philosophy, the strengths and liabilities of major quality assurance and accountability systems in higher education. Seminar topics and reading assignments are given to students a month in advance of class beginning on June 10, 2006. The seminar will meet on campus for four Saturdays, June 12, 17, 24, July 1, and one Friday, July 7.

**\* Effective Term:** Summer 2006

## **DEPARTMENT OF INSTRUCTIONAL TECHNOLOGY, HEALTH, AND EDUCATIONAL STUDIES**

### **(271) Cultural Studies in Education**

REPEATABILITY CLARIFICATION

#### **549 Topics in International Education (3)**

*Repeatability: May be repeated. Maximum 9 hours.*

#### **608 Seminar in Philosophy of Education (3)**

*Repeatability: May be repeated. Maximum 6 hours.*

#### **625 Seminar in History of Education (3)**

*Repeatability: May be repeated. Maximum 6 hours.*

### **(256) Curriculum, Educational Research, and Evaluation**

DROP

#### **541 The High School Curriculum (3)**

#### **557 The Junior High and Middle School Curriculum (3)**

### **(569) Instructional Technology**

ADD REGISTRATION PERMISSION AND REMOVE COMMENT

#### **575 The Internet: Implications for Teaching and Learning (3)**

*Registration Permission: Consent of instructor.*

Formerly: Comment(s): Admission to an ITES program or permission of instructor.

### **(570) Instructional Technology and Educational Studies**

REPEATABILITY CLARIFICATION

#### **593 Independent Study (1-3)**

*Repeatability: May be repeated. Maximum 9 hours.*

#### **594 Independent Study (1-3)**

*Repeatability: May be repeated. Maximum 9 hours.*

#### **595 Independent Study (1-3)**

*Repeatability: May be repeated. Maximum 9 hours.*

#### **693 Independent Study (1-3)**

*Repeatability: May be repeated. Maximum 9 hours.*

#### **694 Independent Study (1-3)**

*Repeatability: May be repeated. Maximum 9 hours.*

#### **695 Independent Study (1-3)**

*Repeatability: May be repeated. Maximum 9 hours.*

## **DEPARTMENT OF NUTRITION**

### **(726) Nutrition**

REPEATABILITY CLARIFICATION

#### **515 Field Study in Community Nutrition (1-12)**

*Repeatability: May be repeated. Maximum 12 hours.*

Formerly: Maximum hours were not indicated.

## DEPARTMENT OF THEORY AND PRACTICE IN TEACHER EDUCATION

### (293) Educational Administration

DROP

518 Educational Specialist Research and Thesis (3)

### (394) Foreign Language/ESL Education

ADD

**566 ESL Assessment and Evaluation (3)** This course highlights the implementation of authentic assessment, specifically, portfolio assessment for ESL students in K-12 settings. It focuses on designing appropriate tools for various assessment purposes. Specific types and different forms of assessment are examined based on their effectiveness and meaningfulness.

## II. PROGRAM CHANGES

## DEPARTMENT OF THEORY AND PRACTICE IN TEACHER EDUCATION

ADD GRADUATE CERTIFICATE – CERTIFICATE IN EDUCATIONAL ADMINISTRATION (PREK-12)

On page 153 of the 2005-2006 Graduate Catalog, add Certificate in Educational Administration (PreK-12).

### **Certificate in Educational Administration (PreK-12)**

The Certificate in Educational Administration (PreK-12) consists of a minimum of 18 graduate hours of selected coursework. Students that currently hold a Master of Science or Specialist in Education degree in Education, or a related field, may apply for admission to the certificate program. Admission criteria are the same as outlined for the Master of Science degree with the Educational Administration Major. Participants will obtain the competencies required for the Beginning Administrator License (with a 481 Tennessee endorsement). The curriculum for the Certificate in Educational Administration (PreK-12) is – Educational Administration 583 (3 hours), 515 (3 hours), 553 (3 hours), 554 (3 hours), 548 (3 hours), Theory and Practice in Teacher Education 595 (3 hours).

### REVISE EDUCATIONAL ADMINISTRATION MAJOR, MASTER OF SCIENCE

On pages 148 and 149 of the 2005-2006 Graduate Catalog, Master of Science, Educational Administration Major, Initial Licensure Program, revise Admission and Requirements sections as follows:

A completed application must be received by both the Office of Graduate and International Admissions and the Department of Theory and Practice in Teacher Education, Educational Administration program. A grade point average (GPA) of 2.7 or higher for undergraduate work or GPA 3.2 or higher for prior graduate work is required. Applicants to the Master of Science program must possess teacher or school-related licensure; have, or will have, by program completion three years teaching experience or experience working in schools; and must interview with an admission committee. Candidates for the educational administration major must possess leadership potential preferably demonstrated by previous leadership experience. Three rating forms must be provided with recommendations from three present or former employers that identify a candidate's strengths, weaknesses, and leadership potential. Interviews with applicants will be held each year in April. Courses will officially start in June.

#### **Requirements**

Core Requirements (513, 515, 548, 553)

Specialization (523, 554, 583, 544 and an approved curriculum course)

Research (516)

Internship (580)

#### **Hours Credit**

12

15

3

6

Total 36



#### REVISE EDS EDUCATIONAL ADMINISTRATION MAJOR REQUIREMENTS

On page 152 of the 2005-2006 Graduate Catalog, Specialist in Education, Educational Administration Major, left column, top of page, revise showcase as follows:

	<b>Hours Credit</b>
Core Requirements (513, 515, 548, 553)	12
Specialization (523, 554, 583, 544 and an approved curriculum course)	15
Research (516, <sup>1</sup> 592, <sup>2</sup> Elective)	9
Internship	6
580	3
	Total 45

<sup>1</sup>A thesis option is available with approval of advisor.

<sup>2</sup>Elective from outside the Educational Administration area chosen in consultation with advisor.

## COLLEGE OF NURSING

All Changes Effective Fall 2007

### **II. PROGRAM CHANGES**

#### ADD GRADUATE CERTIFICATE – GRADUATE CERTIFICATE IN HOMELAND SECURITY STUDIES

On page 182 of the 2005-2006 Graduate Catalog add, Graduate Certificate in Homeland Security Studies.

The graduate certificate in homeland security studies is available to graduate students who seek to gain specialized knowledge and skills related to the prevention and management of catastrophic incidents which result in mass casualties, whether the cause is naturally-occurring, accidental, or terrorism. Admission to the certificate program is selective and requires admission to a degree-seeking program and relevant professional work experience. A degree in nursing is not required. The certificate program is composed of 13 credits: Nursing 532: Homeland Security Threats (3 cr.), Nursing 533: Homeland Security I (5 cr.), and Nursing 534: Homeland Security II (5 cr.).