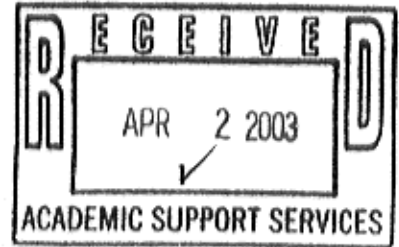




FS-344



THE FACULTY SENATE

March 19, 2003

MEMORANDUM

TO: Robert M. Gates
President, Texas A&M University

SUBJECT: Approval of Graduate Certificate Program in Remote Sensing (RS)
(FS.20.101)

At its regular meeting on March 17, 2003, the Faculty Senate approved the following curriculum item from the Graduate Council and submits it for your approval. Attached is a copy of the material sent to our Senators.

Graduate Certificate Program in Remote Sensing (RS)

Thank you for your time and consideration. Please inform me of your action on this matter.

Robert H. Strawser
Speaker, 2002-2003

F+DB updated

Attachment

cc: David Prior
Karan Watson
Rick Giardino
Edward Hiler
Linda Lacey

Approved:

Robert M. Gates, President

4-1-03
Date



Education • Research • Extension

TEXAS A&M UNIVERSITY
College of Agriculture and Life Sciences

Department of
Horticultural Sciences

October 1, 2002

7425 10 1 2002

OCT 04 2002

GRADUATE STUDIES

Approved

MEMORANDUM

TO: Dr. Rick Giardino, Dean
Office of Graduate Studies
Campus M.S. - 1113

THROUGH: Dr. C.R. Creger
COALS Executive Associate Dean
Campus M.S. - 2142 *CC*

FROM: Dr. David Wm. Reed
Professor and Interim Head
Department of Horticultural Sciences *David W Reed*

SUBJECT: TAMU Graduate Certificate Proposals - Revised

The COALS Graduate Program Council discussed the requests for a TAMU Graduate Certificate Program in Remote Sensing (RS) and in Geographic Information Science (GIS) (see the attached memo). The COALS Graduate Program Council unanimously recommends approval.

DWR:on

Attachment



TEXAS A&M UNIVERSITY
College of Agriculture & Life Sciences
Department of Forest Science

College Station, Texas 77843-2135
(979) 845-5033 FAX: (979) 845-6049

<http://forestry.tamu.edu>
E-Mail: forest@forestry.tamu.edu

27 September 2002

MEMORANDUM

To: Dr. Rick Giardino
Through: Dr. David Reed *DWR*
From: Dr. C. T. Smith *CS*
Subject: Graduate Certificate Proposals - Revised

Copies of the revised proposal for a TAMU Graduate Certificate Program in Remote Sensing (RS) and the revised proposal for a TAMU Graduate Certificate in Geographic Information Science (GIS) are enclosed for your approval for the COALS Graduate Program Council and submission to the University Graduate Council.

On the GIS proposal, FRSC 652 and GEOG 665 were removed from the upper level to eliminate duplication with the middle level. This change does not result in a reduction of the requirements for the certificate.

The RS proposal change entails the removal of OCNG 618 due to the death of the professor that taught that course. This removal does not change the overall requirements.

If you have any questions, please let us know.

Cc: Dr. Doug Sherman

PROPOSAL FOR A TAMU GRADUATE CERTIFICATE PROGRAM IN Remote Sensing (RS)

Submitted to the College of Agriculture and Life Sciences by the Department of Forest Science

Submitted to the College of Geosciences by the Department of Geography

1) Rationale

Increasingly, Remote Sensing (RS) technologies are applied to wide-ranging fields such as environmental/resource management, marketing, facility management, agriculture, planning, homeland security and intelligence gathering. In addition, the synergistic linkages between RS technologies and Geographic Information Systems (GIS) are rapidly increasing. The demand for individuals with a solid grounding in remote sensing is growing. The proposed TAMU graduate certificate program in Remote Sensing is designed to meet these growing demands and complement a parallel, proposed TAMU certificate program in GIS. The RS certificate program targets current graduate students who would like to add a Remote Sensing specific credential to their portfolio as a means of enhancing their professional prospects.

2) Curriculum Design

The certificate program will focus on training Remote Sensing Specialists for advanced applications and spatial problem solving. It strikes a balance between technical training and domain-specific expertise. The program will consist of four courses for a minimum of 12 credit hours and will be composed of two foundation courses and two elective courses. The program is designed to be completed in a year, although no time constraints are imposed.

Introductory Level (both are required)

GEOG6XX - Remote Sensing for Geographical Analysis

FRSC608 Remote Sensing for Natural Resource Management

Intermediate Level (1 of 2 is required)

GEOG661 - Digital Image Processing

FRSC661 - Photo Interpretation

Specialized Remote Sensing Courses (1 of the following is required)

BUSH6XX - Technical Collection Systems in International Security

GEOG696 - Geomorphology and Remote Sensing

METR655 - Satellite Data in Meteorology

ELEN634 - Morphological Methods in Image and Signal Processing

ELEN642 - Digital Image Processing

ELEN649 - Pattern Recognition