



MEMORANDUM

To: Julio Frenk
University President

From: Tomas A. Salerno
Chair, Faculty Senate

Date: September 28, 2015

Subject: Faculty Senate Legislation #2015-01(B) – Certificate Program in Medical Physics,
College of Engineering, and Miller School of Medicine

The Faculty Senate, at its September 24, 2015 meeting, voted unanimously to approve the addition of a certificate program in Medical Physics. As noted in the proposal, medical physics is the physics that has applications in medicine that includes medical imaging, radiation therapy, nuclear medicine, and radiology. The goal of the certificate program is to train qualified applicants, who already received his or her PhD degree in physics or engineering, or other area of physical science with physics education equivalent to a minor in physics, in the field of medical physics to prepare them for future medical physics residency training.


This legislation is now forwarded to you for your action.

TAS/rh

Enclosure

cc: Thomas LeBlanc, Executive Vice President and Provost
Pascal Goldschmidt, Sr. Vice President and Dean, Miller School of Medicine
Jean-Pierre Bardet, Dean, College of Engineering
Nesrin Dogan, Professor, Miller School of Medicine, Department of Radiation Oncology
Weizhao Zhao, Professor, College of Engineering, Department of Biomedical
Engineering

CAPSULE: Faculty Senate Legislation #2015-01(B) – Certificate Program in Medical Physics, College of Engineering, and Miller School of Medicine

APPROVED:  DATE: 10/14/15
(President's Signature)

OFFICE OR INDIVIDUAL TO IMPLEMENT: Medical Physics Graduate Program

EFFECTIVE DATE OF LEGISLATION: IMMEDIATELY
(if other than June 1 next following)

NOT APPROVED AND REFERRED TO: _____

REMARKS (IF NOT APPROVED): _____

Certificate Program in Medical Physics
University of Miami

Sept. 4th, 2015

Nesrin Dogan, Ph.D.
Co-Director, Medical Physics Graduate Program
Professor, Department of Radiation Oncology
ndogan@med.miami.edu
305-243-8629

Weizhao Zhao, Ph.D.
Co-Director, Medical Physics Graduate Program
Professor, Department of Biomedical Engineering
wzhao@med.miami.edu
305-284-6763

To: Faculty Senate

From: Nesrin Dogan, Ph.D.
Professor and Vice Chair of Radiation Oncology
Co-Director, Medical Physics Graduate Program

Weizhao Zhao, Ph.D.
Professor
Co-Director, Medical Physics Graduate Program

Subject: Letter of explanation for the Certificate Program in Medical Physics

Medical Physics is the physics that has applications in medicine, including medical imaging, radiation therapy, nuclear medicine, radiology and so on. A medical physicist is the professional title for those who pursue a career in medical physics. An early graduate program in Radiological Sciences at the University of Miami was jointly sponsored by the Departments of Radiology and Radiation Oncology in the 1970's and early 1980's, but was discontinued in 1988 due to dwindling faculty resources. In the absence of such a program, the Department of Biomedical Engineering began to award graduate degrees for work in areas which would have fit readily into either a radiological sciences or medical physics curriculum. In particular, three BME doctoral dissertations in topics of radiotherapy had been awarded since then. These PhDs have now taken leadership positions in industry or clinics (Xiaodong Wu (Ph.D. 1996), President and CEO, Director of Medical Physics, Biophysics Research Institute of America, Inc. FL; Chunsong Luo (Ph.D. 2003), Chief Medical Physicist, Saint Anne's Hospital, MA; Jun Yang (Ph.D. 2006), Senior Director, US Radiosurgery, TN and Chief Medical Physicist, Philadelphia CyberKnife, PA). They were then jointly supervised by faculty members from the Departments of Biomedical Engineering and Radiation Oncology.

By 2006, a start-up Medical Physics Graduate Program was officially initiated. The program is part of the Biomedical Engineering Graduate Program with a focus on medical physics. The medical physics course sequence was first offered in the fall semester of 2006. The program, serving both M.S. and Ph.D. degrees, ensures that the students receive adequate didactic and clinical training to continue in education and research, enter clinical physics residencies or begin working as medical physicists in radiation therapy and diagnostic radiology departments. The M.S. students are trained with an emphasis on developing skills necessary for clinical medical physicists, while Ph.D. students participate in research projects during their graduate studies and are trained to become independent researchers in the field of medical physics and conduct impactful research or develop novel technologies. Graduate students trained through the program are required to take the American Board of Radiology (ABR) examination in order to practice in the field of medical physics. The program is jointly managed by the Department of Biomedical Engineering (BME) and the Department of Radiation Oncology (RO).

The ultimate goal for the Medical Physics Graduate Program is to establish a *Medical Physics Training Center*, in conjunction with the Certificate Program in Medical Physics and the Medical Physics Residency Program in the Department of Radiation Oncology. The

center's long term implications would lead to an improvement in the quality of patient care as the uprising demand for medical physicists is met.

After three rounds of running the curriculum, the program has reached a relatively stable enrollment (about 10 on-track students each year). We submitted an official application for accreditation of the Medical Physics Graduate Program (MPGP) at University of Miami to the Commission on Accreditation for Medical Physics Educational Program (CAMPEP). After comprehensive review and site-visit evaluation, the MPGP at UM received the accreditation from CAMPEP in May 2013 and became the 32nd institution in the United States to have an accredited graduate program (now totaling 36 accredited program programs in the United States).

The Medical Physics Residency Program in the Department of Radiation Oncology also received accreditation from CAMPEP in Oct. 2014.

To advance the medical physics training in the University of Miami, the last component for the medical physics training center is the Certificate Program in Medical Physics. The certificate program is a non-degree seeking program and built on the basis of the graduate program. The certificate program shares the same curriculum as the graduate program. No additional resources are required. The goal of the certificate program is to train qualified applicants, who already received Ph.D. degree in physics or engineering, or other area of physical science with physics education equivalent to a minor in physics, in the field of medical physics to prepare them for future medical physics residency training.

- The certificate program was proposed in faculty meeting of the Department of Biomedical Engineering on Oct. 4th, 2013. BME faculty approved the proposal unanimously (attached Item 5).
- The certificate program was approved in the medical physics faculty meeting of the Department of Radiation Oncology on March 18th, 2015. Dr. Pollack, Chair of Radiation Oncology, wrote a letter to support the certificate program (attached Item 6).
- The proposal was discussed in college council meeting, College of Engineering, on Nov. 11th, 2013. The College council approved the proposal (see attached Item 4).
- The Associate Dean of the College of Engineering informed college faculty in the College of Engineering faculty meeting on Jan. 24th, 2014 (see attached Item 3).
- We submitted an official application for accreditation of the Certificate Program in Medical Physics (CPMP) to CAMPEP. The CPMP at UM received the accreditation from CAMPEP in Aug. 2014 and became the 11th institution in the United States to have an accredited certificate program (currently a total of 14 accredited certificate programs in the United States) (see attached Item 9).
- To implement the certificate program at the University of Miami, we presented the proposed program to the Graduate Council, UM Graduate School. The proposal was unanimously

approved by the Graduate Council. Dean Blake sent a memo to the Faculty Senate chair on Apr. 28th, 2015 (see attached Item 8).

Following the instructions provided by the faculty senate, we provide the following document:

Page 5 ~ 5	Memo from Associate Dean, College of Engineering
Page 6 ~ 8	College council minutes, College of Engineering, including proposal
Page 9 ~ 11	Memo from Dept of Biomedical Engineering Chair, including faculty meeting minutes
Page 13 ~ 15	Memo from Dept. of Radiation Oncology Chair, including faculty meeting minutes
Page 16 ~ 16	PIRA acknowledgement
Page 17 ~ 17	Graduate School acknowledgement
Page 18 ~ 18	Accreditation letter from CAMPEP

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August 17, 2015

To: Faculty Senate
From: Dr. Shihab Asfour
Subject: Certificate Program in Medical Physics

I am writing this letter to confirm that the Certificate Program in Medical Physics was approved by the College of Engineering Council on Nov. 11th, 2013 (see attached). The result was announced in the College of Engineering faculty meeting on Dec. 9th, 2013. Courses of the program are the same as the existing courses for the Medical Physics Graduate Program. The program does not need additional resources and budget from the College of Engineering.

Sincerely,

A handwritten signature in blue ink that reads "Shihab Asfour". The signature is written in a cursive style and is underlined with a long, sweeping horizontal line.

*Dr. Shihab Asfour
W. Alton Jones Professor of Industrial Engineering
Professor & Associate Dean
College of Engineering
University of Miami
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MINUTES OF THE COLLEGE COUNCIL MEETING

HELD: Monday, November 11, 2013 MEB 289, 3:30 p.m.

PRESENT: Associate Deans Asfour, Solo-Gabriele; Dean Tien; Professors Celik, Dauer, Kubat, Rajguru, Saad, Shaikh, Trussoni, Wong; Ms. Reyes

EXCUSED: Professors Kim, Rahmani, Suaris

1. Approval of Minutes (October 14th, 2013).

Dr. Asfour

Motion to approve: Dr. Dauer

Seconded: Dr. Wong

The motion was unanimously approved.

2. Training for faculty and office managers on the administration of research grants.

Dr. Solo-Gabriele

Dr. Solo-Gabriele requested a faculty meeting that includes training focused on the administration of research grants. The focus of the meeting would be on faculty. However, office managers who handle research grants would benefit from the training. Specifically, the training would consist of:

- I. Training in the contracts process (Suzanne Page, D. Stewart MacIntyre, and/or Karen Hurdle, Office of Research Administration)
- II. Training in the new functionality available to faculty within Research Dashboard (Abigail Lopez, Office of Research Administration). Specifically the office has developed "a Principal Investigator view which allows each faculty member to view their Active Awards, Proposals Under Guarantee, and Accounts in Deficit. PIs can drill down further seeing an Award Summary including a financial overview with complimentary charts/graphs. PIs can drill down even further to see an Account Summary also including a financial overview and charts/graphs. Lastly, PIs can delegate viewing rights to their administrators/staff as they deem appropriate."
- III. Training in the internal College of Engineering proposal submission process (Maria Rojas and Helena Solo-Gabriele, CoE).
- IV. Training in the post award process (Ana Ayala and/or Maria Ortiz)

Faculty discussed and agreed on a discussion of items I and III at the next faculty meeting scheduled for December 9th, 2013. Items II and IV will be covered in a separate meeting at a later date. Dean Tien explained that the first 15 minutes of the faculty meeting would be used for announcements and the remaining one hour and 15 minutes could be used for the training. Dr. Asfour requested slides ahead of time and Dr. Solo-Gabriele agreed to provide them.

3. Proposal to establish CAMPEP-accredited certificate program in Medical Physics (pdf attached).

Dr. Rajguru

Dr. Rajguru discussed the proposal to establish a CAMPEP-accredited certificate program in Medical Physics.

Objective: a) To advance Medical Physics training in the University of Miami by creating a comprehensive center including the graduate program, the residency program and the certificate program to better serve radiation therapy in clinics and conduct related clinical/basic science research in laboratories; b) To sustain the Medical Physics graduate program, particularly the PhD program; c) To expand local or national clinical/industry collaboration through certificated students.

Required didactic coursework: Is basically the same coursework for medical physics graduate students. The course titles and corresponding UM courses are listed in the table below:

CAMPEP Required courses	UM Corresponding courses
la. Radiological Physics and Dosimetry	BME681
M. Fundamentals of Imaging in Medicine	BME520, 629
e. Anatomy and Physiology	BME502
hb. Radiation Protection and Radiation Safety	BME583
ad. Radiobiology	BME581
sf. Radiation Therapy Physics	BME582

UM has all required courses. No additional new course need to be developed.

Faculty of Biomedical Engineering approved the proposal in the BME faculty meeting on Oct. 4th 2013.

Dr. Asfour questioned if students would have to take a licensing exam after receiving certification. Dr. Dauer explained that the certificate would make students eligible to sit for the state exam. Dr. Asfour noted that this should be clearly explained and also suggested that the certificate program be marketed to students with masters degrees. Dr. Dauer explained that UM BME students are allowed to receive certification and agreed to find out if outside applicants must have a Ph.d. Dr. Asfour also pointed out that the program must be approved by SACS.

Item deferred.

4. Other Business.

Dr. Asfour

Dr. Trussoni moved to adjourn. The meeting was adjourned at 4:00 pm.

Proposal: To establish a CAMPEP Accredited Certificate Program in Medical Physics

A certificate program is a program of didactic coursework offered by a CAMPEP-accredited graduate (UM received accreditation in May, 2013) or residency program (UM Radiation Oncology is applying the accreditation for its residency program), to individuals with a doctoral degree in Physics, Medical Physics or a related discipline with work experience in the field, but who have not graduated from an accredited program. The students will complete the required coursework listed. With the certification from our accredited program, they will meet the didactic requirements needed to enter a CAMPEP-accredited residency program and apply for licensure.

Current Accredited Certificate Programs in Medical Physics are listed in the table below

Institution	Initial Accreditation
Columbia University	2012
University of California - Los Angeles	2013
University of Calgary - Tom Baker Cancer Centre	2011
University of Chicago	2011
University of Florida	2012
University of Pennsylvania	2012
University of Victoria-BC Cancer Agency	2013
UT MD Anderson Cancer Center	2012
Wayne State University	2013

Objective: 1) To advance Medical Physics training in the University of Miami by creating a comprehensive center including the graduate program, the residency program and the certificate program to better serve radiation therapy in clinics and conduct related clinical/basic science research in laboratories; 2) To sustain the Medical Physics graduate program, particularly the PhD program; 3) To expand local or national clinical/industry collaboration through certificated students.

Required didactic coursework: It is the same coursework for medical physics graduate students. The course titles and corresponding UM courses are listed in the table below:

CAMPEP Required courses	UM Corresponding course number and name
a. Radiological Physics and Dosimetry	BME681, Radiation Dosimetry and Physics
c. Fundamentals of Imaging in Medicine	BME520, 629, Medical Imaging
e. Anatomy and Physiology	BME502, Unified Medical Science II
b. Radiation Protection and Radiation Safety	BME583, Radiation Protection
d. Radiobiology	BME581, Radiobiology and Physics
f. Radiation Therapy Physics	BME582, Radiation Therapy and Physics

UM BME provides all required coursework. No additional new courses need to be developed. The students must meet all pre-requisites, co-requisites and/or request instructor permission.

Faculty of Biomedical Engineering has approved the proposal in the BME faculty meeting on Oct. 4th 2013.

Below is the clarification for discussion items raised at the College Council meeting:

- 1) Are MS students allowed to enter the certification program?

Not at this time. This is a CAMPEP criterion. This CAMPEP accredited certificate program is for individuals who either have the doctoral degree in physics, medical physics from a non-accredited program or a related discipline. The certification enables these individuals to meet the didactic requirements needed to enter a CAMPEP-accredited residency program and apply for licensure.

- 2) Clarification of the purpose of the certification:

The certification is not a qualification to enter practice; rather it allows individuals with a doctoral degree from a non-accredited program or a doctoral degree in a related field but with work experience in medical physics to meet the requirements of a CAMPEP-accredited residency program. We have modified the proposal to state the same.

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August 21, 2015

RE: Certificate Program in Medical Physics

Dear Faculty Senate,

I am writing this letter to confirm that the Certificate Program in Medical Physics was approved by the faculty of Biomedical Engineering on Nov. 4th, 2013 (see attached). The Certificate Program in Medical Physics was based on our Medical Physics Graduate Program, which was accredited by CAMPEP (Commission on the Accreditation of Medical Physics Educational Programs) on May 5th, 2013. The Certificate Program shares the same courses offered by the Medical Physics Graduate Program.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Ozcan Ozdamar'.

Ozcan Ozdamar, Ph.D.
Professor and Chair

BME Faculty Meeting

MINUTES

OCTOBER 04, 2013

MEA 219D

9:05AM-11:30AM

MEETING CALLED BY Dr. Manns
NOTE TAKER Melissa Dietrick
ATTENDEES Dr. Manns, Dr. Andreopoulos, Dr. Bohorquez, Dr. Huang, Dr. Jackson, Dr. Salas, Dr. Prasad,
Dr. Stabler, Dr. Zhao, Dr. Ziebarth, & Ms. Del-Llano

Agenda Topics:

0. Approval of Minutes:

- August 30, 2013: *approved unanimously by faculty*

1. BME News / Events

- United Way - Please contribute
 - Participate by today (10/4/2013) in order to be entered into incentives raffle
- UM Premed Student Orientation: October 14, 8PM, SAC Ballroom
 - Dr. Dauer will give a presentation, which is mandatory for BME freshmen and optional for other BME students
 - Encourage sophomores and juniors to attend
- Dr. Celik's interview for MAE Faculty position, Friday Oct 4
 - Seminar in MEA 202 at 2:30PM
 - Meeting BME+MAE faculty from 3:30PM-4:00PM (Location TBA)
 - If interested in possible collaboration opportunities please attend meeting and seminar
- Distinguished speaker agenda
 - Dr. Huang discussed Dr. Vunjak-Novakovic's visit scheduled on 10/22/2013
 - Dr. Vunjak-Novakovic, is a professor at Columbia University who is currently focusing on heart tissue engineering and bioreactors. The visit will be from 12pm until 4:00pm
 - Draft itinerary
 - 12:00-1:30: Working Lunch w/ Faculty and senior grad students w/ tissue engineering concentration (MEA 220)
 - 1:30-2:00: Meeting w/ Dean and other CoE members
 - 2:00-2:45 Meeting with Med School faculty
 - BME565 students will attend seminar. Inquire about booking a larger room (possibly one in the new activity center or Storer auditorium) to accommodate attendees

2. Spring Course Schedule

- Preliminary Spring 2014 course schedule was distributed for review by faculty

3. BMES meeting summary by Dr. Bohorquez

- The booth attracted a large number of potential faculty applicants. Dr. Rajguru interviewed over 20 applicants on site
- In two years the BMES meeting will take place in Tampa, FL
- Dr. Bohorquez attended the BME-IDEA workshop, focused on Senior Design projects. The workshop included participants from over 50 universities and discussed the following trends and notes:
 - Projects are recommended to focus on improving existing devices in order to reduce healthcare costs and increase efficiency as opposed to inventing new devices.
 - Universities are now encouraging the practices of "Global Engineering." In conjunction with the FDA and NFS students travel to rural locations abroad. Students must identify problems themselves (versus giving them a problem to solve) and then produce solutions. BME faculty expressed interest in this idea and suggested the department use its South American connection to possibly create a similar program
 - Another trend is the emergence of interdisciplinary students (e.g. Students studying Nursing and Engineering)
 - FDA launched online courses to aid engineering students
 - A major talking point was finding the correct balance between good products and good design processes

4. Accreditation planning: ABET and SACS update by Dr. Bohorquez

- SACS accredits all programs at the University
- The faculty was asked to provide feedback in regards to the "Discussion Section" of the SACS report that was emailed to them
- The Faculty were satisfied with the outcomes of BS and PhD program assessments. The faculty discussed the MS program. There is a range of quality of the students and projects. Faculty suggested having more input in the admission process. The addition of design in the mission statement was discussed (in addition to research).
- The faculty was reminded to always use the proper SACS assessment forms when assessing MS projects and PhD dissertations and PhD dissertation proposals
- The assessment also showed that the newly implemented Ph.D. publication guidelines have proven to be successful
- ABET accredits our undergraduate (including the 5 yr. program) program
- This year's report requirements are similar to the last report
- ABET will be further discussed during the next meeting (Oct. 18, 2013)

5. Undergraduate student advising

- Advising will begin at the end of this month/early November
- The student's file as well as CaneLink will be utilized to advise
 - Faculty is encouraged to spend some time prior to advising dates to familiarize themselves with CaneLink
 - Also, faculty should check within the "Advising Center" on Canelink to see if any of their assigned students have the advising hold released. If so, email Angie/Melissa in order to have the hold reinstated
- When advising BS/MS students:
 - advise them as regular BS students until they have received their official acceptance letter
 - track all graduate courses on the MS Student Record Form, not the undergraduate Curriculum Card.
 - recommend to students to take 2 Graduate Technical Electives during both Fall and Spring semesters of their Senior year.
- Review all the blank Student Record Forms (MS/PhD/5yr) and provide feedback to Dr. Manns if any changes are needed
- Dr. Bohorquez will upload all the pertinent advising handouts to Blackboard and forms will be posted on the web page.

6. BME 680 - Beyond the PhD Dissertation

- 1 credit course slated for next bulletin year
- One goal is to give graduate students a better understanding of the research proposal process.
- The course will also encompass other PhD requirements (RCR course, DSS attendance, TA training)
- The faculty was asked to read the draft created by Dr. Solo-Gabriele and provide any feedback to Dr. Manns

7. Medical Physics Graduate Program Notes from Dr. Zhao

- The creation of a MP certification program was discussed. The program will be available to graduates of non-accredited MP programs and will consist of 6 to 7 courses. A motion was made to allow Dr. Zhao to investigate the process to develop the Certification Program. *Approved unanimously*
- BME582 and BME681 must swap numbers to coincide with course sequence. *The change was approved unanimously.* Dr. Zhao will prepare the proper paperwork for College Council.
- Update on proposal for change to Qualifying Examination:
 - Motion to (a) add 4 designated MP questions (Dr. Dauer will provide two MP questions & Dr. Zhao will provide two) to the qualifying exam and (b) require all MP students to answer at least three of the MP designated questions. *Approved unanimously*
 - There are no limitations on the other three questions that the MP students answer and the designated MP questions may be answered by non-MP students
- MP students will also be required to take a course based knowledge test before clinical rotation; this test will provide a threshold for the Master's degree

8. Next BME Faculty Meeting: Friday Oct 18, 9:00am (ABET preparation)



*Alan Pollack, M.D., Ph.D.,
Chairman and Sylvester Professor
Department of Radiation Oncology
University of Miami-Leonard M. Miller School of Medicine
Associate Director of Community Professional Relations
Sylvester Comprehensive Cancer Center
Leading the Search for a Cancer Cure*

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September 3, 2015

Re: Certificate Program in Medical Physics

Dear Faculty Senate,

I am writing this letter for my strong support of the Certificate Program in Medical Physics. The Certificate Program in Medical Physics has been accredited by the Commission on the Accreditation of Medical Physics Educational Programs (CAMPEP) as of August 13, 2014. The courses for the Medical Physics Certificate Program are jointly taught by Medical Physics faculty in the Department of Radiation Oncology, Sylvester Cancer Center, and faculty in the Biomedical Engineering department. The Certificate Program in Medical Physics was approved by the Medical Physics Faculty on March 18, 2015, during the Medical Physics Graduate Program meeting (see attached).

Please do not hesitate to contact me if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads 'Alan Pollack'.

Alan Pollack, M.D., Ph.D.
Chairman and Sylvester Professor
Department of Radiation Oncology



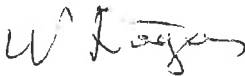





Medical Physics Graduate Program Committee Meeting Agenda March 18, 2015, 9:00am, SCCC 1514

Invited Attendees: Nesrin Dogan, Joseph Both, Beth Bossart, Ivaylo Mihaylov, Perry Johnson, Yidong Yang, Weizhao Zhao, Edward Dauer, Beatriz Mesana

1. Assessment of Qualifier Exam (faculty)
 - a. Review of Qualifier Exam Questions
 - b. Strategy for the Re-exam and Qualifier Exam in August 2015
2. PhD application report (Zhao)
3. Recruiting day (3/20)
4. Class schedule for Fall semester (Zhao)
5. Assessment of ongoing students (faculty)
6. Certificate Program
7. Annual Report (faculty)



Faculty participating in Medical Physics Certificate Program:

<p>Nesrin Dogan Ph.D. Professor, Chief of Medical Physics</p>	
<p>Elizabeth Bossart, Ph.D. Assistant Professor, Medical Physicist</p>	
<p>Perry Johnson, Ph.D. Assistant Professor, Medical Physicist</p>	
<p>Ivaylo Mihaylov, Ph.D. Associate Professor, Medical Physicist</p>	
<p>Joseph Both, Ph.D. Assistant Professor, Medical Physicist</p>	
<p>Matt Studenski, Ph.D. Assistant Professor, Medical Physicist</p>	

- ❖ Number of faculty **eligible** to vote in favor of program: 6
- Number of faculty **in favor**: 6
- Number of faculty **opposed**: 0



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MEMORANDUM

DATE: May 1, 2015

TO: Dr. Nesrin Dogan, Co-Director of the Medical Physics Graduate Program
Professor, Department of Radiation Oncology, Miller School of Medicine
Dr. Weizhao Zhao, Co-Director of the Medical Physics Graduate Program
Professor, Department of Biomedical Engineering, College of Engineering

FROM: David E. Wiles, Executive Director
Assessment and Accreditation 

SUBJECT: Certificate Program in Medical Physics

On April 29, 2015, co-directors of the Medical Physics Graduate Program in the Department of Biomedical Engineering (College of Engineering) and the Departments of Radiology and Radiation Oncology (Miller School of Medicine) submitted a proposal notifying our office of their intent to implement a new Certificate Program in Medical Physics, scheduled to launch in the fall of 2015.

The 18-credit graduate certificate will be comprised of presently existing courses in the Department of Biomedical Engineering (BME) and will target students with a Ph.D. degree in physics, engineering, or other area of physical science. Teaching faculty will come from three departments: Biomedical Engineering, Radiology, and Radiation Oncology. Non-BME faculty will have a secondary appointment in the Department of Biomedical Engineering. The program's goal is to establish a Medical Physics Training Center in South Florida that will contribute to improving the overall quality of patient care. The program will be administered by the Division of Continuing and International Education, including student recruitment, enrollment, advisement, and ensuring program completion.

Although some administrative duties may be delegated to the Division of Continuing and International Education, faculty qualified in the medical physics teaching field must maintain responsibility for the quality and integrity of the program, including program assessment. Annual program assessment will be required once students are enrolled in the certificate program. In compliance with the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) *Principles of Accreditation*, Comprehensive Standard 3.3.1.1, program assessment incorporates expected program and student learning outcomes, including how those outcomes are measured. Assessment Documents and Resources may be found by clicking on "UM Assessment" at www.miami.edu/oaa.

Based on the details of the proposal, implementation of the certificate is not considered substantive in nature. Formal notification to SACSCOC will not be required. Please feel free to contact our office should you have any further questions (305) 284-9431.

cc: Faculty Senate

Dr. M. Brian Blake, Vice Provost and Graduate School Dean
Dr. Pascal Goldschmidt, Dean, Miller School of Medicine
Dr. James Tien, Dean, College of Engineering
Dr. Rebecca Fox, Dean, Division of Continuing and International Education
Dr. Craig Wilson, Associate Dean, Division of Continuing and International Education

UNIVERSITY OF MIAMI
GRADUATE SCHOOL



M. Brian Blake, Ph.D.
Vice Provost for Academic Affairs
& Dean of the Graduate School


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MEMORANDUM

DATE: April 28, 2015

TO: Tomas Salerno
Chair, Faculty Senate

FROM: M. Brian Blake
Dean, The Graduate School 

SUBJECT: New Certificate Program in Medical Physics

The Department of Biomedical Engineering and the Department of Radiation Oncology submitted a proposal for a new Certificate Program in Medical Physics. The proposal for the new certificate program was discussed at the meeting of the Graduate Council on Tuesday, April 21, 2015, and was unanimously approved. The second reading was waived.

cc: Pascal Goldschmidt, Dean, Miller School of Medicine
James Tien, Dean, College of Engineering
Craig Wilson, Associate Dean, Division of Continuing and International Education
Nesrin Dogan, Department of Radiation Oncology
Weizhao Zhao, Department of Biomedical Engineering
Office of Planning, Institutional Research and Assessment

C A M P E P

Commission on Accreditation of Medical Physics Education Programs, Inc.

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Committee

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Executive Secretary

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August 13, 2014

Weizhao Zhao, PhD
1251 Memorial Drive
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Coral Gables, FL 33146

Dear Dr Zhao:

On behalf of the Board of Directors of the Commission on Accreditation of Medical Physics Educational Programs (CAMPEP), I am pleased to inform you that your certificate program in Medical Physics has been granted accreditation, which will run coincidentally with your graduate program and will be renewed upon renewal of the accreditation of your graduate program.

Sincerely,



Wayne Beckham, PhD
President and Chairman

Xc: Joann I Prisciandaro, PhD, Secretary/Treasurer
Brenda G Clark, PhD, Chair GEPRC

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