

Graduate Certificate Program Application

(Graduate and Non-Graduate School Students)

1.					
Last or Family Name (print)	First		Middle		
2. Current Mailing Address:					
Street		City	State	Zip	
3. Telephone number(s) at which you can be	reached: Day ()	Evening ()		
4. Email address:					
5. Year of enrollment in certificate program:					
Year: 20 Check one: Fall	Spring	Summer	_		
6. Certificate program in which you would like	te to enroll: PHOT	TONICS			
7. School and department in which you are cu	rrently enrolled:				
Signature of Applicant			Date		
Return application to the coordinator (Dr. 2007)	Adam Wax) of the	e certificat	e program in which vou	are applying to	enroll.
<u>For (</u>	Office Use Only –	Certificate	e Program Approval		
Your signature below indicates your approval	of this student to p	oarticipate	in the certificate progra	m noted above.	
Dr. Adam Wax, DGS Fitzpatrick Institute for Photonics			Date		
(certificate program coordinator)					



RIDER for Photonics Graduate Certificate

1.					
Last or Family Name (print)	First		Middle		
2. Desired year of graduation from cer	tificate program: Year: 20	Fall	_ Spring	Summer	
3. Requirements to be fulfilled and sent	to Professor Adam Wax for fina	al approval at les	ast one mor	th before graduation:	
• Completion of four photonics courses		g, of which one	course must	be a qualified "Introductory S	urvey
Course." (See Certificate Course List on	next page)				
• Presentation of research at a Fitzpatric	k Institute Student Group meeting	ng (includes FIP	Friday Bre	akfast Poster Presentation).	
• Attendance of 1 semester of Optics an	d Photonics Seminar Series - BN	ME 609/ ECE 54	9/ PHY 549)	
• For Ph.D. candidates: Ensure at least					
Students are required to provide the graduation for review. Your signature		• /		or Wax at least one month p	orior to
Signature of Applicant			Date		

Return application and this rider to Mrs. August Burns, Box 90271, Durham, NC 27708.

Certificate Course List

The following is a list of approved certificate courses. This list is subject to change over time as new courses are offered, including special topics offerings. Please consult with the certificate DGS for guidance and approval. Courses marked with an asterisk qualify as an introductory survey course.

Courses:

- *BME 552/ECE 541/PHY 621 Advanced Optics [T]
- *BME 555/CHEM 630 Advances in Photonics
- BME 436L Biophotonics Instrumentation
- BME 550 Modern Microscopy
- BME 551 Biomedical Optical Spectroscopy
- BME 436L Biophotonics Instrumentation
- CHEM 890-4 Molecular and Biomolecular Imaging
- ECE 545 Nanophotonics
- ECE 546 Optoelectronic Devices
- ECE 523/PHY 627 Quantum Information Science
- ECE 573 Optical Communications Systems
- ECE 675 Optical Imaging and Spectroscopy
- ECE 590 Laser Systems
- ECE 722 Quantum Electronics
- ECE 676 Lens Design
- ME 555 Optical Properties of Nanostructured Materials
- PHY 671 Quantum Optics
- PHY 562 Fundamentals of Electromagnetism
- PHY 719 Advanced Electromagnetism
- PHY 732 Advanced Quantum Optics
- ECE 574 Waves in Matter