The Master of Science In Electrical/Computer Systems/Photonics

PROGRAM PLANNING SHEET

NAME:	_ E	-MAIL:	· · · · · · · · · · · · · · · · · · ·	
BU ID#:	_ · A	DVISOR:		
DEGREE (circle one): Electrical	Compute	er Systems	Photor	nics
COURSE COURSE	NAME	CREDITS	SEM/YR	GRADE
1. CONCENTRATION AREA - 16	credits			
Area:				
(a) (b) (c) (d)		4 cr. 4 cr. 4 cr. 4 cr.		
2. BREADTH REQUIREMENT – Ir	ndicate whic	h of your cou	rses fulfill bro	eadth:
		4 cr. 4 cr.		
3. ADVANCED TECHNICAL ELEC EC700 level or above; 700-le	TIVES - 8 c	redits courses (EC7:	12, EC757, E	C772) do not cou
		4 cr. 4 cr.		
4. PROJECT REQUIREMENT – 4	credits			
Course #:				
Instructor:				
Title of Thesis/Project:				
5. GRADUATE TECHNICAL ELEC	TIVES - Re	maining Credi	ts	
		4 cr. 4 cr. 4 cr.	A	
6. TOTAL CREDITS	(32 re		r better, 500	level or higher)
7. CUMULATIVE GPA				
8. ACADEMIC ADVISOR SIGNAT	ΓURE:		DAT	E:

THE MASTER OF SCIENCE IN:

ELECTRICAL ENGINEERING COMPUTER SYSTEMS ENGINEERING PHOTONICS

CURRICULAR REQUIREMENTS

Approved December 15, 1995

Last amended August 12, 2009 (effective September 1, 2009)

- 1. Credit requirement: at least 32 credits.
 - a. Thesis students are required to take at least 20 credits of structured coursework (500 or 700 level courses) while non-thesis students are required to take at least 24 credits of structured coursework.
 - b. All credits towards the MS should be 500 level or higher.
- 2. Distribution requirements:
 - a. Concentration: 16 credits; may include 8 EC900-level credits.
 - b. Breadth: Any 2 ECE courses not under the chosen concentration. Courses listed under multiple Concentrations may be counted as Concentration or Breadth but not both.
 - c. Advanced Technical Electives: 2 EC700-level non-project courses (EC712, EC757, EC772); may be counted as Concentration or Breadth. At least one Advanced Technical Elective must be in your Concentration area.
 - d. Thesis or Project: At least 4 credits of EC901, EC910, EC911, EC912, EC913, EC914, EC915, EC566, EC712, EC757, or EC772; 700-level project courses may be counted as a *Concentration* course but not as an *Advanced Technical Elective*.
 - e. Other electives: Remaining credits may be fulfilled by any ENG graduate course or, by petition, any other BU graduate course approved as being applicable to the degree by the student's advisor.
 - f. Restrictions: Neither teaching seminar courses (xx850) nor review/refresher courses (ME566) satisfy curricular requirements.
- 3. Grade requirements:
 - a. Cumulative GPA \geq 3.000.
 - b. Only grades of C or better fulfill curricular requirements.
- 4. Special Topics Courses:
 - a. Special Topics courses (EC500 and EC700) may fill a requirement. To find out what Concentration(s) a Special Topics course is listed under, please consult your advisor or the Academic Programs Manager.

CONCENTRATION LISTINGS (ALL EC COURSES UNLESS OTHERWISE NOTED)

Electrical Engineering

- Signal Processing and Communications
- 505 515 516 517 520 702 715 716 717 719 720
- Systems and Control
- 501 505 517 524 701 702 710 724 SE/EC 734 ME/SE 740 ME/SE 755 ME/SE 762
- Solid State Circuits, Devices, and Materials
- 571 574 575 577 578 579 580 582 770 771 772 774 775 777 782
- Electromagnetics and Photonics
- 560 563 566 568 569 570 591 707 731 760 762 763 764 765 770 773 777
- Bioelectrical must take at least 2 EC and at least 2 BE courses
- EC: 505 516 520 571 580 582 716 717 720 772 782 EC/BE: 740 765 BE: 511 512 515 516 540 747

Computer Systems Engineering

- Software
- 504 511 512 518 535 544 712 726 728 730
- Hardware/Architecture
- 513 535 551 561 571 580 582 713 749 751 752 753 757 772 782
- Computer Communications/Networks
- 505 515 524 534 541 544 561 715 724 725 727 733 741 744 749

Photonics - EC560 may not be taken for Breadth by Photonics Majors

- Lasers and Applications
- 560 569 570 591 760 762 763 764 765 773
- Fiber Optics and Optical Communications
- 560 563 568 591 760 770
- Photonic Materials and Devices

560 574 575 591 760 771 774 777