College of Mathematics, Natural Sciences and Technology
Department of Physics and Engineering

MS IN APPLIED OPTICS – NON-THESIS OPTION

Year 1 / Semester 1			Year 1 / Semester 2		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS-600*	Modern Optics	3	PHYS 601*	Nonlinear Optics	3
PHYS-671*	Advanced Electromagnetic Theory I	3	PHYS	Advanced Electromagnetic Theory II	3
PHYS-563*	Mathematical Methods in Physics III	3	PHYS	Mathematical Methods of Physics IV	3
	Total Credits	9		Total Credits	9

Year 2 / Semester 3			Year 2 / Semester 4		
Course	Course Name	Cr	Course	Course Name	Cr
PHYS 605*	Principles of Lasers & Optical Devices	3	PHYS 691*	Special topics/Research	3
PHYS 675*	Quantum Mechanics I	3	PHYS	Modern Laser Spectroscopic Methods	3
	Total Credits	6		Total Credits	6
			Total Credits: 30		

*Denotes a Core Requirement

+Denotes an elective
Total Core Credits = 30
Total Elective Credits = 0
Candidacy Requirement: Complete 15 credits of course work with GPA ≥ 3.0
Capstone or Culminating Experience: Presentation in Special topics class about research topic
Outcomes report and rubric submitted to the School of Graduate Studies prior to graduation