College of Mathematics, Natural Sciences and Technology Department of Mathematical Sciences



PROGRAM: PH.D. IN INTERDISCIPLINARY APPLIED

MATHEMATICS AND MATHEMATICAL PHYSICS (MATHEMATICAL PHYSICS CONCENTRATION)

First Year Fall Semester			First Year Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-871	Complex analysis *	3	MTSC-863	Functional Analysis *	3
PHYS-655	Computational Methods *	3	PHYS-672	Advanced EM Theory II *	3
PHYS-665	Statistical Mechanics *	3	PHYS-676	Quantum Mechanics II *	3
	Total Credits	9		Total Credits	9

Second Year Fall Semester		Second Year Spring Semester			
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-8xx or PHYS-	Math or Physics Elective +	3	MTSC-8xx or PHYS-6xx/8xx	Math or Physics Elective +	3
MTSC-8xx or PHYS-	Math or Physics Elective +	3	MTSC-8xx or PHYS-6xx/8xx	Math or Physics Elective +	3
	Total Credits	6		Total Credits	6

Third Year Fall Semester			Third Year Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-890	Dissertation		MTSC-890	Dissertation	3/6
	Total Credits	3/6		Total Credits	3/6

NOTE: This information is on the next page after the $4^{\mbox{\scriptsize th}}$ semester

College of Mathematics, Natural Sciences and Technology Department of Mathematical Sciences



MATHEMATICS AND MATHEMATICAL PHYSICS (MATHEMATICAL PHYSICS CONCENTRATION)



(MATHEMATICAL PHYSICS CONCENTRATION) - Continued

Fourth Year Fall Semester			Fourth Year Spring Semester		
Course	Course Name	Cr	Course	Course Name	Cr
MTSC-890	Dissertation	3/6	MTSC-890	Dissertation	3/6
	Total Credits	3/6		Total Credits	3/6
			Total Credits: ≥ 39		

*Denotes a Core Requirement +Denotes an elective Total Core Credits = 12 Total Elective Credits = 18 Candidacy Requirement:

- Complete at least thirty (30) credits of graduate level course work beyond the master's degree
- A cumulative GPA of at least 3.0 on all graduate level course work with no grade below a C
- Complete a MS degree
- Pass PhD Qualifying Exams
- Pass PhD Foreign Language Requirement
- Submission of a research plan along with candidacy application and qualifying exam and language exam results to the School of Graduate Studies
- Capstone or Culminating Experience:
- Successful completion of at least 9 hours but not more than 18 hours of MTSC-890 dissertation
- Write and successfully defend the dissertation.