REQUIREMENTS FOR AGRADE STUDENTS TO OBTAIN MASTER’S OF SCIENCE IN ELECTRICAL ENGINEERING

Credit Hours Requirement - 32

- **Transfer Credits from B.S. in Physics Program** - Twelve credits completed by taking approved graduate level Physics or Electrical Engineering courses. - 12 Cr Hrs

- **Core Course Requirements** - Five core courses for Electrical Engineering Degree with at least two 7000 level courses – 20 Cr Hrs

Core Courses for M.S. in Electrical Engineering Degree:

- **7000 level courses**: ECE 7030, 7100, 7160, 7400, 7420, 7430, 7440, 7455, 7530, 7550, 7570, 7650, 7680, 7690, 7700, 7730, 7830, 7850, 8570(1)

- **5000/6000 level courses**: ECE 5100, 5325, 5330, 5370, 5380, 5410, 5425, 5430, 5440, 5470, 5550, 5575, 5620, 5650, 5690, 5700, 5770, 5870, 6100, 6180, 6570, 6660

Plan-of-Work:

Before taking any courses under the AGRADE program, a plan-of-work, containing all 32 credit hours, needs to be completed and approved by both the Undergraduate Advisor of Physics Department and the Graduate Chair of ECE Department. If any 4000-level ECE courses are required as pre-req, then these additional courses are also required to be included in the plan-of-work and be taken as electives for BS in Physics Degree.

Policy on Course Repeat, Probation and GPA Requirement for Graduation:

- The department will only permit one course to be repeated. Only courses with grades of B or higher can be counted towards the 32 credit hour requirement.

- A student is put on probation if his/her GPA falls below 3.0. Probation students will be permitted the next eight credits to restore their cumulative GPA to at least a 3.0; failure to do so will result in immediate termination from the program.

- Overall 3.0 GPA in all the graduate courses is required for graduation.
Concentration Areas:

The following concentration areas are for your information only but not a requirement for your degree. You may also select courses from multiple concentration areas as long as you satisfy credit hours requirements as explained above.

- **Electrical Systems**
  
  7000 level courses: ECE 7030, 7100, 7160, 7420, 7430, 7440, 7530, 7680, 7690, 7700, 7850
  
  5000/6000 level courses: ECE 5100, 5325, 5370, 5380, 5410, 5430, 5440, 5470, 5690, 5700, 5770, 5870, 6100, 6180, 6660

- **Electrical Devices**
  
  7000/8000 level courses: ECE 7030, 7530, 7550, 7570, 7680, 7850, 8570(1)
  
  5000/6000 level courses: ECE 5325, 5330, 5550, 5575, 5690, 5870, 6570

- **Electric Vehicles and Vehicle Electronics**
  
  7000/8000 level courses: ECE 7030, 7420, 7430, 7440, 7650, 7730
  
  5000/6000 level courses: ECE 5330, 5410, 5430, 5440, 5470, 5575, 5620, 5650, 5700, 5770