

**College of Engineering Graduate Programs**  
**Mechatronics Engineering**  
**Program Study Plan**

Student Name: \_\_\_\_\_ ID: \_\_\_\_\_

Starting semester: \_\_\_\_\_

A. Tentative list of courses to be taken (check selected course). Thesis option needs 7 courses and course option 10 courses.

***In addition, all students must complete a seminar course (MTR 695).***

Course	Title	Pre-requisite
<b>Bridging Course:</b>		
MTR 501	Introduction to Mechatronics (if required in admission)	
<b>College Core Courses: (15 credits)</b>		
Students must successfully complete the following courses:		
MTR 520 (3 cr)	Embedded Systems for Mechatronics	Pre-req. MTR 501
MTR 540 (3 cr)	Advanced Control Systems	
MTR 550 (3 cr)	Robotics Systems	
MTR 615 (3 cr)	Artificial Intelligent Systems	
MTR 690 (3 cr)	Mechatronics Design	Pre-req. MTR 520, Pre/concurrent MTR 695
MTR 695 (0 cr)	Mechatronics Seminar	all students must complete a seminar course
<b>Elective Courses</b>		
<ul style="list-style-type: none"> <li>Students in the thesis option must successfully complete a minimum of 6 credits.</li> <li>Students in the course option must successfully complete a minimum of 15 credits.</li> </ul>		
Students can select elective courses from the following list:		
Course code	Course Description	Pre-requisite
ELE 544 (3cr)	Advanced Signal Processing	Admission to the MSEE, or MSBME or MSMTR
MTR 610 (3cr)	Automated Manufacturing Systems	
MTR 640 (3cr)	Nonlinear and Intelligent Control Systems	MTR 540
MTR 644 (3cr)	Electric Drives for Mechatronics Systems	MTR 501
MTR 645 (3cr)	Image Processing and Computer Vision	NGN 500
MTR 650 (3cr)	Applied Linear Estimation	
MTR 694 (3cr)	Special Topics in Mechatronics Engineering	
MTR 696 (3cr)	Independent Study in Mechatronics Engineering	
NGN 500 (3cr)	Advanced Engineering Mathematics	
Other	(please specify):	
<b>Master's Thesis</b>		
MTR 699 (9 cr)	Master's Thesis	Good academic standing and approval of program director. Pre-requisite/concurrent MTR 695

Students in both the thesis option and the course option may select to take **one elective** course outside the list of elective courses, with the approval of their advisor and the program director.

B. Transferred Courses(if any): \_\_\_\_\_

C. Bridging Courses(if any): \_\_\_\_\_

D. Research Area of interest: \_\_\_\_\_

Advisor: Dr. Lotfi Romdhane

Date & Signature: \_\_\_\_\_