

**DEGREE PLAN**

**CANDIDATES FOR MASTER OF SCIENCE IN MECHANICAL ENGINEERING (MSME)  
(WITH THESIS)**

Name: \_\_\_\_\_ Student number: \_\_\_\_\_  
 Cumulative GPA: \_\_\_\_\_ Mechanical Engineering GPA: \_\_\_\_\_

Course number                      Course name    semester    grade

**A. 3 Hours of Mathematics (MECE 6384)**

MECE 6384      Methods of Applied Mathematics 1    \_\_\_\_\_

**B. 9 Hours of Core Mechanical Engineering Coursework**

*\* You are allowed to take any 3 MECE courses from below.*

<b>Controls</b>	<b>MECE 6367</b> Control Systems Analysis and Design; <b>MECE 6388</b> Optimal Control Theory <b>MECE 6366</b> Machine Learning; <b>MECE 7361</b> System Identification
<b>Materials</b>	<b>MECE 6361</b> Mechanical Behavior of Materials; <b>MECE 6363</b> Physical Metallurgy <b>MECE 6364</b> Phase Transform in Materials
<b>Mechanics</b>	<b>MECE 6377</b> Continuum Mechanics I; <b>MECE 6397</b> Applied Solid Mechanics
<b>Thermo-Fluids</b>	<b>MECE 6334</b> Convection Heat Transfer; <b>MECE 6345</b> Fluid Dynamics I

MECE                      \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
MECE                      \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
MECE                      \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_

**C. 9 hours of Elective Coursework**

*\*You can choose MECE 6000-level or above, exclusive of graduate seminar (MECE 8111) and Graduate Project (MECE 6368).  
 \*You can also choose 6000-level or above from preapproved courses in the College of Engineering, College of Natural Science and Mathematics, Bauer College of Business, and Law Center.*

MECE                      \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
MECE                      \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_  
MECE                      \_\_\_\_\_    \_\_\_\_\_    \_\_\_\_\_

**D. 3 hours of Thesis I**

MECE 6399      Master's Thesis    \_\_\_\_\_

**E. 6 hours of Thesis II**

MECE 7399      Master's Thesis    \_\_\_\_\_  
MECE 7399      Master's Thesis    \_\_\_\_\_

E. \_\_\_\_\_ Date: \_\_\_\_\_  
 Signature of Program Director

F. \_\_\_\_\_ Date: \_\_\_\_\_  
 Signature of Thesis Advisor