Materials Science and Engineering

Master of Engineering (*M.Eng. Non-Thesis*)

[1]Required Background "Leveling" Courses	Semester	Grade	Credits
MSEN 601: Fundamental Materials Science and Engineering			3
MSEN 603: Fundamental Soft & Biomaterials Materials Science & Engineering			3
Seminar Requirement *(Minimum 1 cr - Maximum 2 cr)*			
MSEN 681: Seminar			
MSEN Core Courses *(6 cr)*			
1. MSEN 602: Physics of Materials Science & Engineering			3
2. MSEN 640: Thermodynamics Materials Science & Engineering			3
Math Requirement *(choose one, 3-4 cr)*			
3. MATH 601-604, STAT 601, STAT 630, PHYS 615, PHYS 616			
[2]**MSEN Electives** *(Minimum of 9 cr **or** 3, graduate MSEN courses)*			
4. MSEN:			
5. MSEN:			
6. MSEN:			
[3]**Free Electives** *(Minimum of 9cr, any engineering or science 400 level course or above)*			
7.			
8.			
9.			
[4]"**Professional Development Recommendations" Courses** *(choose one, 2-3 cr)*			
10. MSEN: 684 (internship), 685 (directed studies), or courses that can count toward earning a certificate (Corrosion | Informatics).			
[4]"**Extra" Courses** *(optional, not required)*			
Comments:			
Degree Plan must equal 30 hours — Total:			

Committee: Consists of one member (the Chair) who can be a full-time core/joint MSEN faculty or affiliated MSEN faculty.

Chair _____

Degree plans must be submitted electronically at http://ogsdpss.tamu.edu during your fourth semester of registration or you may be blocked from further registration. You must establish a committee before submitting a degree plan.

Notes:

1. **Required Background "Leveling" Courses** are MSEN 601, MSEN 603. Any student who ***does not*** have a degree in Materials Science and Engineering ***must*** take these two courses— they will be counted as Free Electives. Any student who does have a degree in Materials Science & Engineering is not required to take those courses— they are automatically waived.

2. **MSEN Electives** are graduate-level Materials Science & Engineering courses frequently referred to as technical electives.

3. **Free Electives** are any 400 level or above engineering and science course. The Background Leveling Courses (MSEN 601 & 603) can be used to fulfill this requirement— (see note 1).

4. **Remaining credit** hours to fulfill the minimum credit hour requirement (**30 cr**) may be taken from other courses, including Internship (MSEN 684), and Directed Studies (MSEN 685), subject to Departmental rules.
   - Limitations on the use of certain courses to fulfill credit hour requirements (See Graduate Catalog)
   - Any combination of 681, 684, and 685 may not exceed 25 percent (7 cr) of the total credit hour (30 cr) requirement shown on the individual degree plan:
   - MSEN 681 (Seminar) does not count as MSEN Elective or Free Electives— maximum 2 cr
   - MSEN 684 (Internship) does not count as MSEN Elective or Free Electives— maximum 6 cr
   - MSEN 685 (Directed Studies) may be used as MSEN Elective or Free Elective— maximum 6 cr
   - MSEN 691 (Research) cannot be used toward a non-thesis degree.
   - A maximum of 9 hours of advanced undergraduate courses (300- or 400-level).
   - The maximum number of credit hours considered for transfer credit is 12 cr as per University Rules.
     * Courses for which transfer credits are sought must have been completed with a grade of "B" or greater and cannot have been used to earn a previous degree— must have instructor, graduate director, chair, committee, and Graduate Professional School approval.

Master's Non-Thesis Catalog Requirments:

1. You must maintain satisfactory academic progress by completing MSEN academic degree milestones to avoid probation:

   a. Before end of 1st Semester— Finding a Faculty Advisor/Supervisor
   b. Before Mid 2nd Semester— Establish Committee & Degree Plan Submission (due after earning 9 cr)
   c. Before 4th Semester— Complet all degree plan coursework (average 2 years)

2. You must maintain an overall, semester, and degree plan grade point average of 3.0 or higher for all of your classes at Texas A&M University.

3. You must perform your assigned duties and research satisfactorily.

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