

Materials Science and Engineering

Master of Science (M.S. 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
⁴ Seminar Requirement (<i>Minimum 1 cr - Maximum 2 cr</i>)			
MSEN 681: Seminar			
MSEN Core Courses (<i>6 cr</i>)			
1. MSEN 602: Physics of Materials Science & Engineering			3
2. MSEN 640: Thermodynamics Materials Science & Engineering			3
Math Requirement (<i>choose one, 3 -4 cr</i>)			
3. MATH 601-604, STAT 601, STAT 630, PHYS 615, PHYS 616			
² MSEN Electives (<i>Minimum of 9 cr <u>or</u> 3 graduate MSEN courses</i>)			
4. MSEN:			
5. MSEN:			
6. MSEN:			
³ Free Electives (<i>Minimum of 9 cr, any engineering or science 400 level course or above</i>)			
7.			
8.			
9.			
⁴ “Professional Development Recommendations” Courses (<i>choose one, 2-3 cr</i>)			
10. MSEN: 684 (internship), 685 (directed studies), or courses that can count toward earning a certificate (Corrosion Informatics).			
⁴ “Extra” Courses (<i>optional, not required</i>)			
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://ogsdpps.tamu.edu> during your second 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 4 cr
 - MSEN 685 (Directed Studies) may be used as MSEN Elective or Free Elective— maximum 8 cr
 - MSEN 691 (Research) cannot be used toward a non-thesis degree; *unless pursuing a Ph.D. or Thesis for (1 full year) before transferring to a non-thesis approval must be granted by the Faculty Advisor and Graduate Director before including credit on non-thesis degree plans submissions*— maximum 8 credits.
 - A maximum of 8 credit hours of 685 and 691 combined.
 - 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 (approval process can be lengthy).

Master’s Non-Thesis Catalog Requirments:

1. You must maintain satisfactory academic progress by completing MSEN academic degree milestones to avoid probation:
 - a. Before the 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— Complete 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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