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The department offers three graduate degree programs: Master's Degree Plan A, Master's Degree Plan B, and PhD Degree. The M.S. and Ph.D. programs require that a student concentrate in one of three areas of concentration: Materials & Manufacturing; Mechanics, Systems & Controls; and Thermal and Fluid Sciences.

Master of Science Plan A (Thesis)

A.1. Course Requirements: A minimum of 30-credit hours are required. Students must have a B average (3.0 GPA) for all courses completed at the University of Hawaii toward the degree; for all courses taken as a classified graduate student; and for all graduate courses numbered 600 or above. These minimal 30 credit hours must include: • A minimum of 12 credits in ME 600 series courses or other 600 series courses recommended by the student's advisor and approved by the Graduate Chair • A minimum of 1 credit of ME 691 Seminar • A minimum of 8 credits of ME 700 Thesis • A minimum of 9 credits of technical electives (400 level or above in engineering, mathematics, or physical sciences approved by the student's thesis committee). The course work should constitute a coherent program in the student's area of concentration as described earlier in this Section 3. The course requirements contribute substantially to achieving SLO 1.

A.2. Thesis Requirements: A thesis is required for a Master's degree Plan A. A student must have a thesis committee that consists of at least three members of the graduate faculty of the University of Hawaii; the chairman and at least one other committee member must be on the Mechanical Engineering graduate faculty. When the thesis topic has been approved by the committee, the candidate then may register for ME 700. The committee chairman provides guidance to the M.S. candidate for primary direction of the research, research methodology, and preparation of research results. It is the joint responsibility of the chairman and the student to see that all members of the committee are kept informed of the scope, plan, and progress of the research and thesis. The format of the written thesis must follow the Style & Policy Manual for Theses and Dissertations specified by the Graduate Division. M.S. candidates are required to pass a final oral examination that covers the thesis and related topics. A majority of the members of the committee must approve both the thesis and the student's performance in the thesis defense examination. The Thesis Requirements contribute to SLOs 1, 3, and 4 by having candidates apply their knowledge to conduct thesis research with some independence. The oral defense requirements help to ensure that SLOs 2 and 4 are also achieved, because the thesis must be written, orally presented, and defended at a professional level.

A.3. Seminar Requirements: M.S. candidates must attend at least 15 seminars from the department seminar series. ME 691 Seminar normally is taken in the last semester of residence. Registrants are expected to make one oral presentation. Attendance is taken by the coordinator for the departmental seminars. The Seminar Requirements contribute to achieving SLO 2 since candidates can observe others giving presentations, and they also have the option of making a presentation. By attending the seminars, candidates also gain experience interacting with presenters with their questions and dialog. This contributes to achieving SLO 4.

Table 1. Map of MS Plan A Requirements & SLOs

MS Plan A Requirements	SLO 1	SLO 2	SLO 3	SLO 4
A.1. Course Requirements	X			
A.2. Thesis Requirements	X	X	X	X
A.3. Seminar Requirements:		X		X

Master of Science Plan B (Non-Thesis)

B.1. Course Requirements: A minimum of 30-credit hours are required. Students must have a B average (3.0 GPA) for all courses completed at the University of Hawaii toward the degree; for all courses taken as a classified graduate student; and for all graduate courses numbered 600 or above. These minimal 30 credit hours must include: • A minimum of 18 credits in ME 600 series courses or other 600 series courses recommended by the student’s advisor and approved by the Graduate Chair • A minimum of 1 credit of ME 691 Seminar • A minimum of 2 credits of ME 699 Directed Reading • A minimum of 9 credits of technical electives (400 level or above in engineering, mathematics, or physical sciences approved by the student’s thesis committee). The course work should constitute a coherent program in the student's area of concentration as described earlier in this Section 3. The course requirements contribute substantially to achieving SLO 1.

B.2. Report Requirement: A report of the ME 699 Directed Reading must be submitted by the candidate. This report can document a research effort, albeit of less depth and rigor than an ME 700 Thesis, or study of a more practical nature, related perhaps to the student’s industrial background or interests. The Report Requirement contributes to achieving SLOs 1, 3, and 4 by having candidates apply their knowledge to conduct a study with some independence. It also contributes to achieving SLOs 2 and 4 because the report must be written and orally presented and defended at a professional level.

B.3. Seminar Requirements: This is the same Seminar Requirements of Master’s Plan A (A.3). The Seminar Requirements contribute to achieving SLO 2 since candidates can observe others giving presentations, and the candidate also has the option of making a presentation. By attending the seminars, candidates also gain experience interacting with presenters with their questions and dialog. This contributes to achieving SLO 4.

Table 2. Map of MS Plan B Requirements & SLOs

MS Plan B Requirements	SLO 1	SLO 2	SLO 3	SLO 4
B.1. Course Requirements	X			
B.2. Report Requirements	X	X	X	X
B.3. Seminar Requirements:		X		X