POLICIES AND PROCEDURES FOR GRADUATE ADVISING
Department of Aeronautics and Astronautics
Approved (1-September-2010)

Summary
Policies and procedures relating to the advising of graduate students in the Department of Aeronautics and Astronautics are described below. These have been developed by the Graduate Committee in response to gaps in our present processes which have led to uncertainty, for both students and faculty, concerning the appropriate actions to take. Further, this uncertainty occurred often in instances associated with deadlines (such those for graduation) that put additional pressure on those affected. The new policies and procedures define the advising guidelines in a more specific manner. They are aimed at directly addressing the circumstances that have caused difficulty as well as at increasing the consistency of the advising process for the students in the department.

The rationale for these new policies and procedures is as follows:
1) There have been examples in the past where graduate program policies and procedures have not been followed by students, thesis committees, and thesis advisers.
2) Although a strong research component is a major highlight of our graduate program, the program is at heart an educational experience, albeit a very different one from the undergraduate experience.
3) MIT Policies and Procedures explicitly highlights the role of faculty members, Professors of the Practice and Senior Research staff in the educational mission of the Institute.
4) We therefore seek to align department practices with the policies and procedures of the Institute and place the primary responsibility for graduate education with faculty members, Professors of the Practice and Senior Research Engineers, and to extend this responsibility to others only under the approval of the department headquarters.

The document sets out different roles in the advising of doctoral and master’s level students, describes the attributes of these roles, and then defines those individuals who are eligible to fulfill the roles. The policies and procedures described are in effect for all incoming students who enter in the Fall Term of calendar year 2005 or later, and for those students currently enrolled in the SM program who will be starting their doctoral program anytime in the Fall Term of calendar year 2005 or later.

Advising of Doctoral (PhD and ScD) Students
There are several different roles connected with the advising of, and the thesis committee participation with, doctoral students.

PhD Committee Chair
The PhD thesis committee chair plays a role as department academic representative on the committee. The role is a management function in addition to an intellectual one. The PhD thesis

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1 The fundamental linkage between education and faculty is expressed succinctly in MIT’s Policies and Procedures: “Educational policy for the Institute is determined by the Faculty.”

2 The term PhD will be used throughout for simplicity, but it should be understood that the relevant comments also apply to the ScD degree.
committee chair must be a faculty member, emeritus faculty member, Professor of the Practice, or Senior Research Scientist/Engineer/Associate in the department. Note: The Thesis Committee Chair will frequently also be the Thesis Advisor. These two roles are not exclusive.

PhD Thesis Advisor
The PhD Thesis Advisor is the main intellectual advisor for the thesis research. Faculty members, emeriti faculty, Professors of the Practice, and Senior Research Scientist/Engineer/Associates are eligible to be PhD thesis advisors. Principal Research Scientist/Engineer/Associates are also eligible providing they have the written permission of the Department Head or Deputy Department Head. The approval needs to be done only once for a given Principal Researcher, but it is subject to review on a periodic (yearly at the least) basis, under advice from the Graduate Committee. The request to be a PhD thesis advisor should come from the Principal Researcher and, if appropriate, from faculty members with whom he or she interacts. The qualification for a Principal Researcher to be a PhD thesis advisor is extensive successful experience in advising at the MS level and demonstrated commitment to, and understanding of, the graduate educational process.

Current Principal Researchers who are PhD thesis advisors of students at the time this policy is put into effect (February 2005) are grandfathered for those specific students only. For any additional doctoral students the written permission must be in place.

PhD Thesis Committee Member
The thesis committee must have at least three members. Two of these must be MIT faculty members, including emeriti faculty, or Professors of the Practice in the major field, i.e., two faculty who are familiar with the field and are expected to contribute to the research. The other committee members may be MIT faculty, MIT research staff, or individuals who are familiar with the field from industry, government, or another university. The advisor for the minor field (the so-called “minor advisor” as formerly denoted) does not count as one of the two faculty members needed for the committee.

Advisor for the Minor Field
The Graduate Committee does not see a strong need for having a minor advisor who is attached to each thesis committee. The purpose of the minor advisor is to ensure that the minor courses form a coherent whole. The Minor Advisor must be an active MIT faculty member. The Minor Advisor will review and formally sign-off on the Minor Proposal Form the subjects proposed by the student. Only G or H-level courses are acceptable for this requirement and there must be agreement by the Thesis Committee that the minor field is sufficiently different from the major

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3 Faculty members, as defined in Policies and Procedures, include only Professors, Associate Professors, and Assistant Professors
4 Policies and Procedures emphasizes the connection of Professors of the Practice with education in the statement that they “demonstrate a deep commitment to teaching and research”.
5 Senior S/E/A are academic staff, a different category from other research appointments. Specifically, as stated in Policies and Procedures, “Senior Research Scientist, Senior Research Engineer, and Senior Research Associate are the senior positions in the campus research staff structure and for that reason have been designated academic staff positions with special status and prerogatives.”
6 An Associate or Assistant Head, as has been the case in the past, would also be able to sign off for this.
field. The minor advisor will typically not be a member of the Thesis Committee unless he/she can also advise in the major field of study.

**Advising of Master’s Degree (SM) Students**

**SM Thesis Advisors**
Faculty (including emeriti), Professors of the Practice, Senior Researchers, and Principal Researchers are eligible to be SM thesis advisors.