



## Technical Qualification Evaluation (TQE)

### Conditions for TQE Completion

- Satisfactory qualification is achieved by completing 4 TQE subjects within three groups; two subjects are from two separate groups and two subjects are from a third group. A minimum of 3 A grades and one B grade is needed.
- EECS graduate students may choose from all 9 groups on the TQE grid.
- NO substitutions for TQE plans- only subjects on EECS-wide TQE grid are allowed.

### Conditions for TQE Subjects

- The subject is a graduate level subject.
- The subject is offered regularly: every semester, every year, or every other year.
- The subject builds on undergraduate material, so that mastery of the subject (an A grade) indicates competence of undergrad knowledge, and therefore the student is prepared for advanced graduate subjects and research.
- A TQE subject may be a prerequisite for another TQE subject in the same group, forming a two-subject sequence, because the TQE requirement calls for taking two subjects from one group. But the second subject in the sequence should also accept students who mastered the prerequisite material during their undergraduate preparation.
- The subject rigorously assesses individual student performance, with at least 40% of the grade evaluated by a combination of individual work: problem sets, quizzes, midterm/final exams, and/or a final project done by an individual student. This format ensures mastery of material by each individual student.
- The subject is not overly specialized to one research subarea, or one faculty member's research group, but must appeal to students from a variety of EECS research areas.
- The subject is taught primarily by the EECS faculty, and occasionally by non-EECS faculty for jointly listed subjects. The subject is not seminar-style paper discussions led by students and is not principally taught by guest lecturers.
- Grading should use letter grading (A/B/C/D/F) and not pass/fail, and not automatic A grades. The letter grades must conform to MIT's grade definitions. The TQE proposal process may request anonymized examples of work from students who received A, B, and C grades in the past.
- TQE subjects with material overlap may have an "xor" with another TQE subject.