

APMA MS Plans of Study (POS) are regularly rejected by the OGE which creates undue burden on the student, advisor, math department staff, and OGE staff. To minimize the occurrence of trivial rejections, you must proceed through the following checklist prior to submitting any POS to your advisor for signature.

- (0) Verify that your POS agrees with your transcript (modulo point (3a) below). This means the course number, the course name, the semester, and the number of credits must agree for any course listed on your POS that you have already taken or are currently taking.
- (1) Verify that you have used the current version of the POS. This is a fillable pdf, and you should enter your classes using this capability (i.e. do not print the form and fill in by hand). The current version of the POS is available on the [OGE website](#).
- (2) Fill in the names of the faculty members who will sign, and include estimated dates that they will sign it.
- (3) The POS must follow the regulations in the catalog for general MS programs and for the APMA MS program. The 2022-23 catalog entries are here:

[General MS Programs](#)

[APMA MS Program](#)

- (a) The POS must contain exactly 30 credits, all at the 4000 or 6000 level. You may well take more than 30 credits during your time at RPI, so you don't need to apply all credits from all courses you take. For example, you can choose to apply only part of a course to your POS, e.g. you may apply 1-4 credits from a 4 credit course.
- (b) The POS must contain at least four courses coded MATH or MATP of 4 credits each.
- (c) The POS must contain at least four 4-credit courses at the 6000-level, of which at least 2 must be in MATH or MATP.
- (d) Your plan of study must contain at least one outside course (so not coded MATH or MATP, or cross-listed with a department course). This course must be for 3 or 4 credits.
- (e) You can fulfill the capstone requirement using a sequence of classes in one of the following ways:
 - (i) Two 6000-level MATH courses with 2nd digit 4 or 5 (courses in differential equations)
 - (ii) Two 6000-level MATH courses with 2nd digit 6 or 7 (courses in applied math)
 - (iii) Two 6000-level MATH courses with 2nd digit 8 (courses in computational math)
 - (iv) Two 6000-level MATP courses
- (f) Any course can be applied towards multiple criteria. Eg MATH 6400 counts towards conditions (3b) and (3c), and may also count towards (3e(i)).
- (g) You can apply courses from before you enrolled in the RPI MS program, provided those courses were not used to fulfill any earlier degree requirement. Eg, if you are a co-terminal

student, you may have taken a 6000-level course in your final year of your BS that was not applied towards your BS requirements.

(4) If you are a PhD student in another department looking to add an APMA MS or MATH MS, you can share at most 6 credits between the MS and the PhD. You cannot apply dissertation credits to an MS. Many PhD programs at RPI impose an upper bound on the number of dissertation credits, or a lower bound on the number of course credits. Reading courses are treated as regular course credits, not dissertation credits.

Note that we also offer a MATH MS. A checklist for completing the MATH MS POS is available on request.