Residency Requirement

The intent of the residency requirement is to immerse doctoral students in a scholarly community that will promote a culture of academic scholarship. In doing so, frequent collaboration and interactions with peers and program faculty will provide students with opportunities to grow as scholars in mathematics and science education as well as support them as they complete program requirements. Specifically, the goals of the residency are:

1. to establish a common vision regarding Ph.D. values; and
2. to spur progress in completing program requirements.

Ph.D. values. In establishing Ph.D. values, the intent is to support the student in moving away from a student identity towards a research/scholar identity. Such an identity includes:

- the propensity to act as a consumer of research;
- the identification of one’s self as a researcher; and
- a scholarly disposition.

Spurring progress. The intent is to capture the initial enthusiasm that accompanies being accepted into the program and utilize this to place students on a productive path towards successfully completing the degree. This intent also includes moving students through the program in a timely manner.

Residency requirements. Students are required to complete the residency requirement within one year of admission into the program. To meet the residency requirement, students must successfully complete: at least 18 hours of coursework directly related to the degree; the residency course requirements; and the first year experiences. Each of these is described below.

18 hours of coursework. During the first year of the program, students are expected to complete at least 18 hours of coursework that apply directly to the degree. Students will utilize three consecutive semesters (e.g., fall, spring, and summer) to meet this requirement.

Of the 18 hours, 14 hours of coursework are prescribed.

Fall Semester (5 hrs.)
  - MSE 7001 – Residency Seminar 1 (1 hr.)
  - MSE 7820 – Seminar in Mathematics and Science Education (1 hr.)
  - PSY 7190 – Advanced Cognitive Psychology (3 hrs.)
Spring Semester (6 hrs.)
- MSE 7002 – Residency Seminar 2 (1 hr.)
- MSE 7840 – Special Topics in Math. and Science Education (2 hrs.)
- SPSE 7010 – Educational Research Methodology (3 hrs.)

Summer Semester (3 hrs.)
- SPSE 7220 – Advanced Educational Technology OR SPSE 7170 – Learning Theories and the Educational Process (3 hrs.)

First year experiences. During the residency year, students are expected to complete each of the following.

1. Attend at least one conference – The conference should be directly related to the student’s concentration (i.e., biology education, chemistry education, science education, mathematics education) and should be at the regional, national, or international level. The advisor must approve the selected conference.
2. Submit a manuscript – The manuscript will be prepared under the guidance of or in conjunction with MSE faculty. Residency seminars will support this process.
3. Attend at least 5 program activities not associated with course credit – The MSE program has numerous activities that occur during the academic year (i.e., fall and spring semesters). These include seminars, book club meetings, reading/writing groups, journal clubs, etc. Some of these are intended for all MSE students while others are specific to concentrations.

Failure to complete first year experiences. At the end of the student’s first year, the program director will verify that the residency requirement has been met. In the event that a student fails to complete all first year experiences, the student will typically be released from the program for failure to make progress. Exceptions may be made and extensions offered, however, at the discretion of the program director in consultation with the MSE Coordination Committee.