OSU—SCIENCE OR MATH EDUCATION
DOCTORAL PROGRAM OVERVIEW

Coursework Phase
There are two lines of core courses\(^1\) required for all doctoral students: (1) research methodology and (2) research content. The research methodology strand of courses, within the program, is a three-course sequence. Two additional methods courses are required in either qualitative or quantitative methods and most likely will be taken outside of the department. Research content courses consist of six core courses, over 2 academic years. The six research content courses will be offered every other year to rotate the six courses over two years. A Program Seminar (1 credit) will be offered every term. This course is required for incoming graduate students for the first two years (6 credits total) of the doctoral program and highly encouraged for all other members of the graduate program.

The student’s course selection is to be reviewed by a program advisor for input and guidance. The advisor is integral and essential to the sequencing and selection of courses for the success of the student. The program of study committee\(^2\) will also review and provide input on course sequencing and selection.

Cf. The following course titles and numbers may change slightly as program goes through review.

Research Methodology Courses-- First year of doctoral program
SED 580 Beginning Educational Research (3 credit) [on-campus only/ required for other SED courses]
SED 612 Inquiry into quantitative research methodology (3 credit)\(^3\)
SED 622 Inquiry into qualitative research methodology (3 credit)

Second year of doctoral program (these may be taken concurrent with first year courses if student already has identified qualitative or quantitative focus)
In negotiation with the student’s advisor, two additional methods courses are required either focusing on qualitative and/or quantitative research methods. Potential (not required) courses include: STAT 511, 512; ANTH 591, 596, 598; HDFS 538, 539 PSY 580. For course descriptions see catalog http://catalog.oregonstate.edu/CourseDescription.aspx?level=grad

Research Content Courses -- Two year sequence
SED 621 Survey of Research on Learning (3 credit)
SED 623 Curriculum Theory (3 credit)
SED 589/599 Special Topics (3 credit)
SED 607 Department Seminar (1 credit)

SED 611 Survey of Research on Teaching (3 credit)
SED 613 Learning Theory (3 credit)
SED 589/599 Special Topics (3 credit)
SED 607 Department Seminar (1 credit)

\(^1\) There are also elective courses that each degree option suggests. These courses will be listed on a separate document.

\(^2\) The program of study meeting should take place after the first year of courses (typically fourth quarter of enrollment). Student should seek advice from advisor as plans are made for second year courses to fit program of study. Changes can be made, after the program of study is completed, with an approval by the program of study committee.

\(^3\) Depending on graduate student’s statistics background, the student’s advisor may recommend STAT 511 or equivalent prior to SED612