

# Approved Mathematics Courses

The following Mathematics courses are approved for both the MAE M.S. and MAE Ph.D. Plans of Study:

MATH 5053, Advanced Calculus II (prerequisite: MATH 4143 or 5043)  
MATH 5063, Calculus of Several Variables (prerequisites: MATH 2163, 3013)  
MATH 5073, Introduction to Modern Analysis (prerequisites: MATH 2153, 3613)  
MATH 5203, Intermediate Differential Equations (prerequisites: MATH 2233, 3013)  
MATH 5263, Introduction to Partial Differential Equations (prerequisites: MATH 2163, 2233, 3013)  
MATH 5273, Complex Variables (prerequisite: MATH2163)  
MATH 5503, Introduction to Optimization (prerequisites: MATH 2163, 3013)  
Any MATH 6000-level course

The following courses in computer science, statistics, or physics, if approved beforehand by your advisor and the MAE Graduate Coordinator are approved for both the M.S. and Ph.D. Plans of Study.

CS 5513, Numerical Computation (prerequisites: MATH 2233 and (MATH 3013 or MATH 3263) and (CS 3513 or MATH 4513 or 5513)  
STAT 5053, Time Series Analysis (prerequisite: STAT 4043)  
STAT 5063, Statistical Machine Learning With R (Prerequisite STAT 5563)  
STAT 5133, Stochastic Processes (prerequisites: MATH 2233, 3013, STAT 5123)  
(Same course as MATH 5133 and IEM 5133)  
Any STAT 6000-level course  
PHYS 5453, Methods of Theoretical Physics (prerequisite: PHYS 3513)

Only those courses listed for Graduate credit in the OSU University Catalog (having an asterisk) and acceptable to the student's advisor can be used on the Plan of Study. DO NOT take non-MAE or MATH courses without *prior* approval of your advisor and the MAE Graduate Coordinator.