

1106-L5-1804      **Robert Sachs\*** ([rsachs@gmu.edu](mailto:rsachs@gmu.edu)). *A new complex analysis / algebra / geometry transition to higher mathematics course in development.*

This report discusses the syllabus of a new, developing "transition to higher math" course. We outline the topics and sequencing, discuss the intended benefits of a successful implementation, and begin a wider discussion. The course links complex variables, algebra, and plane geometry. The central role of complex algebra and analysis in the 19th century development of many branches of mathematics makes the course a way to introduce several topics, and to pique interest and increase achievement in upper level math courses. The course both introduces and unifies complex variables, abstract algebra, and hyperbolic geometry. (Received September 15, 2014)