

THE UNIVERSITY OF NORTH CAROLINA ASHEVILLE  
FACULTY SENATE

Senate Document Number     3020S  
Date of Senate Approval     04/09/20

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Statement of Faculty Senate Action:

**APC Document 27 (MATH):**

**Add prerequisite to MATH 191**

**Effective Date: Fall 2020**

**1.     Delete:** On page 235, the final line in the description for **MATH 191, Calculus I:**

Students should have a thorough background in high school algebra and trigonometry before they enroll in MATH 191.

**Add:**     On page 235, in place of deleted entry:

Prerequisite: MATH 167 or placement, or permission of instructor.

**Impact Statement:** With instructor permission, students without credit for MATH 167 will still be able to register for MATH 191, and their mastery of the skills necessary to succeed will be assessed through placement and evaluation. The Math department is piloting a 1-credit, satisfactory/unsatisfactory lab class during Spring 2020 that is designed to provide support to students who need additional help to succeed in Calculus I. An increasing number of our first year students now graduate from high school without first taking a Precalculus course. A pre-requisite for MATH 191 would allow us to place unprepared students either in a lab class or MATH 167 depending upon their situation. The placement process will be outlined on the Math department website.

**Rationale:** The Math department strives to ensure that the D, F, W rates in our gateway math classes are below 25%. The only course in which we have not been able to meet this goal in recent years is MATH 191, Calculus I. Our D, F, W rate in Calculus I from Fall 2017 through the Fall semester of 2018 was 35%. Adding an official prerequisite for MATH 191 will help ensure that Calculus I students have the background necessary to be successful in the course. All other UNC system schools have a prerequisite or placement required for enrollment in Calculus I (see Appendix A), so this addition will put us in line with the other institutions.