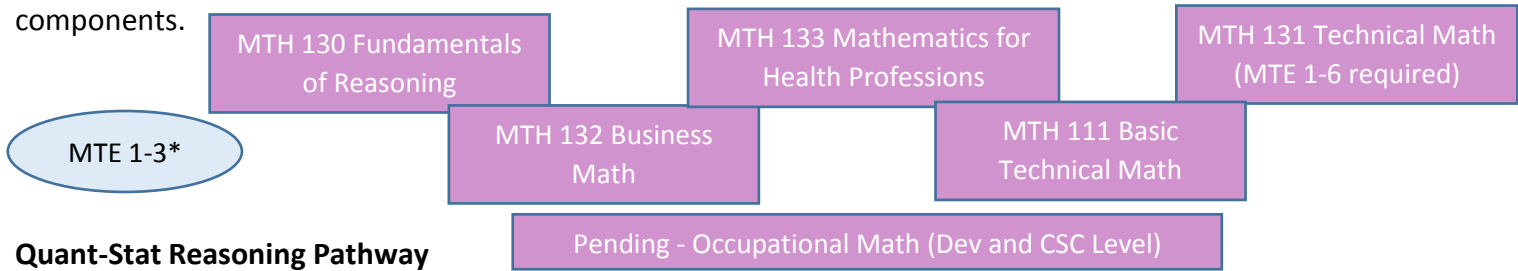


VCCS Math Pathways (4.11.17)

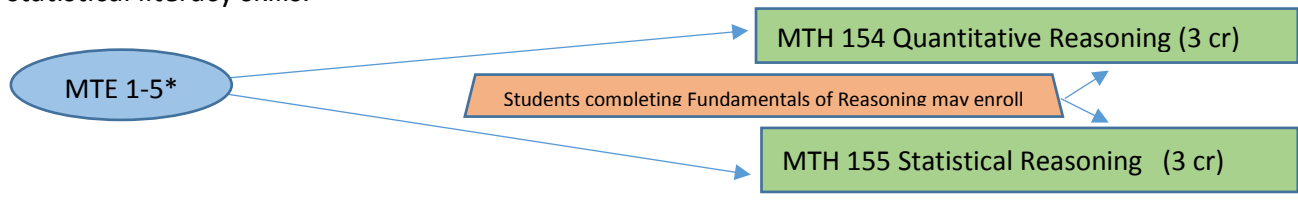
Career-Technical and Health Science Pathway

Serving students in career, technical, and health sciences fields requiring both broad and technical math components.



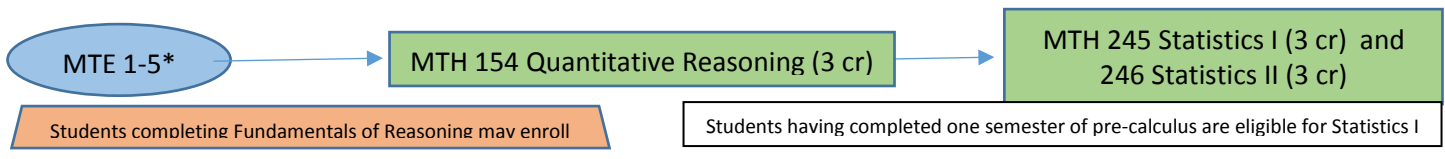
Quant-Stat Reasoning Pathway

Serving the liberal arts/general studies, humanities, service industry, and fine arts students needing mathematical and critical thinking skills with the ability to apply mathematics in problem solving and/or basic statistical literacy skills.



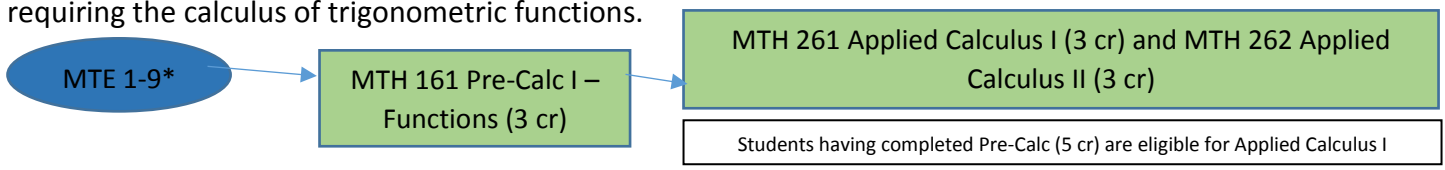
Applied Statistics Pathway

Serving both liberal arts, business, social science, and STEM students needing a study in statistical thinking, reasoning, and applications that prepares students to put statistical concepts into practice.



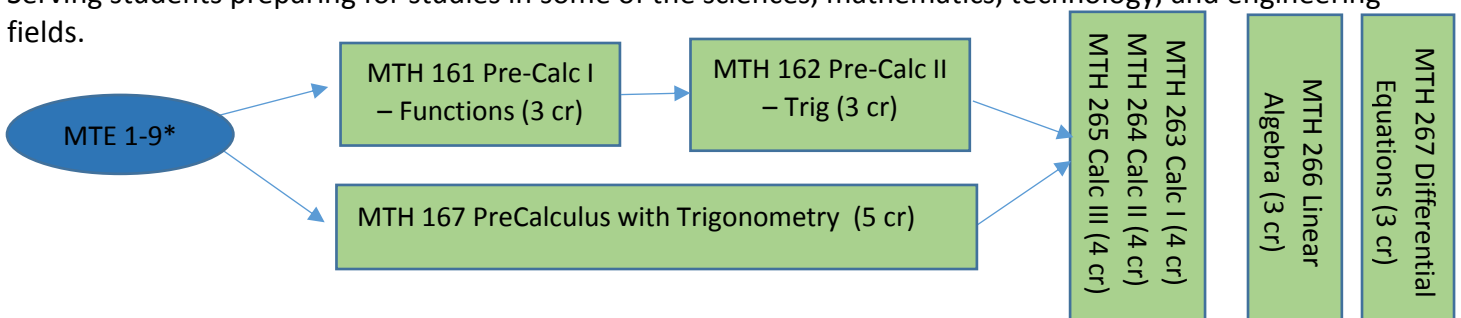
Applied Calculus Pathway

Serving some business and STEM students needing a study in calculus with focus on its applications and not requiring the calculus of trigonometric functions.



STEM Pathway

Serving students preparing for studies in some of the sciences, mathematics, technology, and engineering fields.



* For all gateway courses with MTE prerequisites, students may enroll in the credit course with a co-requisite support course if 2 or fewer developmental math modules remain to be satisfied.

Sample Math Pathways List

The table below was developed by the University of Texas Dana Center – NMP after collecting transfer from community and four year colleges as well as national associations. The titles above each column are Virginia’s corresponding pathways. Programs listed under Applied Statistics Pathway may consider the QR/SR pathway to meet student needs based on the level of statistical knowledge needed in regards to literacy versus application.

STEM or Applied Calc Pathways	Quant-Stat Reasoning Pathway	Applied Statistics Pathway
Algebra pathway	Quantitative Reasoning (QR) pathway	Statistics pathway
Architecture Astronomy Environmental Science Psychology (at some colleges) Biochemistry Biology Business degrees Chemistry Computer Science Economics Engineering degrees Mathematics Physics Some Education degrees	Administrative Asst. Specializations Anthropology Applied Arts and Sciences Applied Behavior Analysis Applied Technology and Performance Improvement Art History Automotive Technology Broadcast Media Classics Communications Computer Programming Culinary Arts Dance Design: Fashion, Interior Development and Family Studies Digital Retailing Emergency Admin and Planning English [Ethnic Group] Studies French German Heating, AC, and Refrigeration Tech History Hospitality Management Information Science/Technology International Studies Journalism* Linguistics Music: Composition, General, Jazz, Theory, Performance Paralegal Pharmacy Technician* Philosophy Psychology (at some colleges) Radio, TV, Film Recreation and Leisure Studies Rehabilitation Studies Religious Studies Some education majors Spanish Speech Communication Studio Arts Surgical Technician Theater Urban Studies Visual Arts	Archaeology Accounting Specialist or Tech Criminal Justice Dental Hygiene Ecology for Environmental Science Environmental Studies or Technology Geography GIS Government** Health Promotion** Health Studies** Health Information Technology** Human Resource Development Industrial Technology Kinesiology Management Medical Laboratory Sciences Merchandising Nursing Political Science Psychology Sociology Social Sciences Social Work** Speech-Language Pathology and Audiology

* Degree/major math requirement may be Statistics.

** Degree/major math requirement may be QR.