The FVCC Math Department would like to create a new course and redesign another course in order to "streamline" our Foundational Math program. This would shorten the developmental course sequence for most of our students, thereby shortening the time to degree. We are also proposing a fork in the Foundational Math sequence with a STEM path and a non-STEM path. In order to make this happen, given the large number of sections/faculty/students impacted, it will take a significant amount of effort that goes above and beyond the normal scope of work for faculty. Therefore, we are requesting some additional compensation to get this up and running for Fall 2016. We feel that the benefits to students will be significant and that this redesign will help the college meet its goals and objectives, as they relate to the strategic plan.

Our proposal is to create a new course, M094 - Quantitative Reasoning, that will serve as the primary prerequisite for all non-STEM students. We also plan to delete M061 (Basic Mathematics), as it is no longer eligible for state or federal financial aid. We will absorb students from M061 into M065 (Prealgebra) by restructuring the format and adjusting the content of M065. Students who do not place into M094 or M090 (Introductory Algebra) would be put into M065 and this course would be repeatable, so as to accommodate our lowest level of students who still need the fundamentals of arithmetic. From there, a student would identify themselves as either STEM or non-STEM (although there is some room to move back and forth in the sequence). All non-STEM students who do not place at the college-level would go through M094 and then directly into M115, M132/133, or M145. STEM students would continue the traditional track of M090 and M095 (Intermediate Algebra) before moving into M152 (Precalculus Algebra). This will benefit both STEM and non-STEM students alike: we can focus the content of M090 and M095 on a more rigorous and traditional algebra preparation, while the content of M094 can focus on more quantitative reasoning and problem solving skills without the heavy dose of algebra.

We have outlined a budget to make this happen, along with a general time-line. The "core" is lead on the project and is comprised of Don Hickethier, Laura VanDeKop, and Erin Wenner.

Task(s) to be completed:	Person(s) responsible:	Timeframe:
Look at Quantways curriculum	Core	Jan 2016
Determine platform, text, etc	Core	Jan/Feb 2016
Develop Learning Outcomes for M094	Core	Jan/Feb 2016
Propose M094 to Curriculum Committee	Laura VanDeKop	Feb 2016
Review/adjust M090 & M095 Learning Outcomes	Core STEM Math Colloquium	Feb/Mar 2016
Discuss M090 & M95 content w/other STEM disciplines	Core STEM Math Colloquium	Feb/Mar 2016
Identify programs utilizing M090/M095 as QL RI	Core - Laura (lead) assistance from Sam K?	Feb/Mar 2016
Pilot M065 format in M061	Don Hickethier	Spring 2016
Update Math course sequence flowchart	Laura VanDeKop	Mar/Apr 2016
Meet with LC advisors	Core	Apr 2016
Meet with Faculty Senate & Division Chairs	Laura VanDeKop Don Hickethier	Apr 2016
M090 & M095 content sequencing & course format	STEM Math Colloquium	Apr/May 2016
Initial content and course build for M065 & M094	Core - Erin (lead)	Apr/May 2016
Final course build & course format for M065 & M094	Foundational Math Colloquium Erin - lead	May 2016
Final course build for M090 & M095	Erin Wenner	May 2016
Test Compass vs MyMathTest in all Foundational courses	Erin Wenner Mike McGarvey	Spring 2016
Data analysis of Compass/MyMathTest/course results	Maya Tsidulko	May 2016
Determine final placement policy & cut scores	FT Math Dept	May/Jun 2016
Pilot all courses	Erin Wenner	Summer 2016

Budget:

Core Meeting - January 14-15, 2016 2 half-day meetings identify M094 Outcomes/profile/text/platform M061 deletion proposal M065 Outcomes/profile/proposal Quantways curriculum review	$400/person	$1,200
Course build - M065/M090/M094/M095 Erin Wenner	$30/hour 100 hours (est)	$3,000
Colloquium - Foundational Math two, 2hr meetings (2 Saturdays in April) open to all FT Math faculty & Math adjuncts	$100/person/meeting est 10 - 15 people	$2,000 - 3,000
Colloquium - STEM Math two, 2hr meetings (1 in early Feb, 1 in April) suggested participants: Effat Rady, Mike Severino, Molly Maxwell, Don Hickethier, Erin Wenner, Laura VanDeKop, Chemistry rep, Tim Price	$100/person/meeting	$1,800
LC Advisor "boot camp" prerequisite discussion; review new flowchart; advising Q&A w/mock scenarios; etc Core to present to appropriate LC staff Evening meeting (4 - 6) w/pizza (M or W in Apr)	$50/person + food	$700 - 900
Testing students in Compass, Spring semester 2016 additional staff for FMC proctoring (50 hr est) mass enroll students in MyMathTest (10 hr est)	$5/student test fee (??) (1500 codes left??) 300 - 400 students $15/hr - FMC proctoring $10/hr - enrolling students	$850 - 2,850
Data analysis - Maya Tsidulko	already budgeted ??	
FT Math Department Placement Retreat Quinn's Hot Springs Resort Lodging, dinner/breakfast, transportation (FVCC van/gas); Fri - Sat in May/June	approx $250/person	$1,750
Summer pilot - curriculum review & adjustments/advising	stipend for Erin	$1,500
Estimated total budget:		$12,800 - 16,000