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This quotation captures the essence of a need for understanding of mathematics developmental theory and a need for understanding of learning theories appropriate to the teaching and learning of math. Both are missing in many math education environments. There are many different learning theories.

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Avi Wigderson Mathematics and Computation Draft: March 27, 2018 Acknowledgments In this book I tried to present some of the knowledge and understanding I acquired in my four decades in the field. The main source of this knowledge was the Theory of Computation community, which has been my academic and social home throughout this period.

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Computer mathematics is often understood to mean the theory of numerical methods and algorithms for solving typical mathematical problems. This interpretation of the term was common in computer mathematics' early stages, when the use of computers imposed new demands on numerical methods.

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Other mathematical techniques covered in PHL 313K, e.g., recursive definitions, are widely used in programs. The set theory covered in PHL 313K is used in modern database designs. But computer science is not just programming. It includes the logical and mathematical analysis of programs.

Computer science majors have to learn a different kind of math compared to MOST other majors (with the exception of math majors, plus computer and software engineers).

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