

**PENN STATE UNIVERSITY**  
**MATH 081: TECHNICAL CALCULUS I(Tentative)**

Text: Basic Technical Mathematics with Calculus

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Publisher: Pearson Addison-Wesley ISBN: 0-321-13194-0

**Course Outline** (This is an old outline used in 1995 )

Chapter	Sections	Topics	Period
1	1,2,3	Numbers, Laws of Alg. Order of Operations, Ops w /Zero	1
	4,5,6	The Calculator, Exponents, Scientific Notation	2
	7	Roots and Radicals	3
	8	Addition and Subtraction of Algebraic Expressions	4
	9	Multiplication of Algebraic Expression	5
	10	Division of Algebraic Expression	6
	11	Equations	7
	12	Formulas and Literal Equations	8
	13	Applied Verbal Problems	9
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	3,4	Rectangular Coordinates, Graph of a Function	11
	5,6	Functions Defined by Tables of Data, Solving Equations Graphically	12
3	1,2	Angles, Defining the Trigonometric Function	13
	3	Values of the Trigonometric Function	14
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	3	Factoring Trinomials	24
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