

2013-2014 SYLLABUS INTRODUCTION TO CALCULUS

Kellenberg Memorial High School

Revised, August, 2013

Textbook: Calculus (8th Edition) Larson, Hofstetler, Edwards

Calculator – TI-84 Plus, Silver Edition

First Trimester:

Chapter P – Preparation

	Using the TI-84 Plus Silver Edition Calculator [Including graphing, solving, tables, functions]	1 week
P.1	Graphs and Models	3 days
P.2	Linear Models and Rates of Change	3 days [Test]
P.3	Functions and Their Graphs	4 days
P.4	Fitting Models to Data	3 days [Test]

Early-October

Chapter 1 - Limits and Their Properties

1.1	A Preview of Calculus	2 days
1.2	Finding Limits Graphically and Numerically	3 days
1.3	Evaluating Limits Analytically	1 week [Test]
1.4	Continuity and One-Sided Limits	1 week
1.5	Infinite Limits	3 days [Test]

End of October

Chapter 2 - Differentiation

2.1	The Derivative and the Tangent Line Problem	3 days
2.2	Basic Differentiation Rules and Rates of Change	1 week
2.3	Product and Quotient Rules and Higher-Order Derivatives	1 week [Test]
2.4	The Chain Rule	3 days
2.5	Implicit Differentiation	2 days [Test]

Mid-December

A Syllabus Calculus

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A Syllabus Calculus:

Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2016-02-12 Teaching Secondary and Middle School Mathematics combines the latest developments in research standards and technology with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics today In the fully revised fifth edition scholar and mathematics educator Daniel Brahier invites teachers to investigate the nature of the mathematics curriculum and reflect on research based best practices as they define and sharpen their own personal teaching styles The fifth edition has been updated and expanded with a particular emphasis on the continued impact of the Common Core State Standards for Mathematics and NCTM s just released Principles to Actions as well as increased attention to teaching with technology classroom management and differentiated instruction Features include A full new Chapter 7 on selection and use of specific tools and technology combined with Spotlight on Technology features throughout clearly illustrate the practical aspects of how technology can be used for teaching or professional development Foundational Chapters 1 and 2 on the practices and principles of mathematics education have been revised to build directly on Common Core State Standards for Mathematics and Principles to Actions with additional references to both documents throughout all chapters A new Chapter 4 focuses on the use of standards in writing objectives and organizing lesson plan resources while an updated Chapter 5 details each step of the lesson planning process A fully revised Chapter 12 provides new information on teaching diverse populations and outlines specific details and suggestions for classroom management for mathematics teachers Classroom Dialogues features draws on the author s 35 year experience as an educator to present real world teacher student conversations about specific mathematical problems or ideas How Would You React features prepares future teachers for real life scenarios by engaging them in common classroom situations and offering tried and true solutions With more than 60 practical classroom tested teaching ideas sample lesson and activities Teaching Secondary and Middle School Mathematics combines the best of theory and practice to provide clear descriptions of what it takes to be an effective teacher of mathematics

Teaching Mathematics in Grades 6 - 12 Randall E. Groth, 2012-08-10 A journey into the vibrant and intriguing world of mathematics education Teaching Mathematics in Grades 6 12 explores how research in mathematics education can inform teaching practice in grades 6 12 The author shows secondary mathematics teachers the value of being a researcher in the classroom by constantly experimenting with methods for developing students mathematical thinking and then connecting this research to practices that enhance students understanding of the material The chapters in Part I introduce secondary teachers to the field of mathematics education with cross cutting issues that apply to teaching and learning in all mathematics content areas The chapters in Part II are devoted to specific mathematics content strands and describe how students think about mathematical concepts The goal of the text is to have secondary math teachers gain a deeper understanding of the types of mathematical knowledge their students bring to grade 6 12 classrooms and how

students thinking may develop in response to different teaching strategies Bold Ventures S. Raizen, E.D. Britton, 2012-12-06 This book presents comprehensive results from case studies of three innovations in mathematics education that have much to offer toward understanding current reforms in this field Each chapter tells the story of a case in rich detail with extensive documentation and in the voices of many of the participants the innovators the teachers the students Similarly Volume 2 of Bold Ventures presents the results from case studies of five innovations in science education Volume 1 provides a cross case analysis of all eight innovations Many U S readers certainly will be very familiar with the name of at least if not all of the mathematics innovations discussed in this volume for one example the NCTM Standards and probably with their general substance Much of the education community's familiarity with these arises from the projects own dissemination efforts The research reported in this volume however is one of the few detailed studies of these innovations undertaken by researchers outside the projects themselves **MAA Notes** ,1983 ... *The Teaching of Mathematics in the United Kingdom* Great Britain. Board of Education, 1912 **Special Reports on Educational Subjects** ,1912 Special reports on educational subjects Education Ministry of, 1912 *The American Mathematical Monthly* ,1916 Includes section Recent publications **Bombay University Calendar: Calendar** University of Bombay, 1918 **The Bombay University Calendar** University of Bombay, 1920 **Bombay University Handbook** University of Bombay, 1926 **The Monist** ,1903 Vols 2 and 5 include appendices **The Mathematical Gazette** ,1912 *The Examination Statutes ... Together with the Regulations of the Boards of Studies and Boards of Faculties* University of Oxford, 1887 Catalogue of educational works, 1889 Ginn and co, 1889 *Brighton Free Public Library and Museum, Royal Pavilion. Catalogue of Books in the Library, 1873* BRIGHTON. Public Library, Museums and Fine Art Galleries, 1873 The Post Magazine and Insurance Monitor ,1915 *Journal of the Institute of Actuaries* ,1908 **UME Trends** ,1993 **Catalogue of books in the library of the University of Sydney** Sydney univ, libr, 1892

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