

Tech Tools FALL 2008 Course Calendar

CLASS	DATE	TOPICS	ASSIGNMENTS
1	Sept. 8	Intro to Course, Class Materials TI-Connect with TI-83/84 and TI-89 (screen captures, back-ups, downloads, updates on operating system), and TI Website MathType and Equation Editor	HW: Quiz 1 RDG: K. Goldberg book -- Preface and Intro (pp. ix – xiv) NCTM -- Position Statement, 2005 NCTM -- Position Statement, 2008 NCTM – The Technology Principle L. Stiff – Making Calculator Use Add Up, 2001
2	Sept. 15	TI-Nspire introduction TI-Nspire Computer Link (screen captures, back-ups, downloads, updates on operating system)	turn in: Quiz 1 from previous class HW: Quiz 2, TI-Nspire tutorials RDG: K. Goldberg book – The Scientific Calculator (pp. 1 – 3) K. Goldberg book – The Graphing Calculator (pp. 35-36) Dunham & Dick – Research on Graphing Calculators, 1994 P. Dunham – Hand-held Calculators in Mathematics Education: A Research Perspective, 1998 (skim) TI – Using Handheld Graphing Technology in Secondary Mathematics: What Scientifically Based Research Has to Say, 2003
<i>Friday</i>	<i>Sept 19</i>	<i>TI-Nspire Preservice Workshop – Robinson 212 (participants receive TI-Nspire computer software, \$80-value)</i>	<i>HW: online TI-Nspire tutorials Find a calculus topic for Project 1</i>
3	Sept. 22	<i>TI-Nspire Workshop Evaluation online http://education.ti.com/educationportal/sites/US/sectionHome/preservice_workshop.html</i> TI-Nspire	turn in: Quiz 2 from previous class HW: Quiz 3, Project 1 RDG: NCTM – Mathematics Education Dialogues, May/June 1999 H. Pomerantz – The Role of Calculators in Math Education, 1997
4	Sept. 29	CAS -- Derive (TI-89), TI-Nspire CAS, Mathematica	turn in: Quiz 3 from previous class HW: Quiz 4, Project 1 RDG: J. Podlesni – A New Breed of Calculators: Do They Change the Way We Teach?, 1999 Waits & Demana – A New Breed of Calculators: They WILL Change the Way and What You Teach!, 2000 J. Mahoney – Computer Algebra Systems in Our Schools: Some Axioms and Some Examples, 2002

5	Oct. 6	List Management, Matrices, Plots, and Statistics with TI-73, TI-83/84, TI-89, TI-Nspire	turn in: Quiz 4 from previous class HW: Quiz 5, Project 1 RDG: Herman – Experimentation with Transformations of a Puppy using Lists and Matrices on the TI-83/84 Graphing Calculator, 2006 TI – Guidebooks for various calculators
6	Oct. 13	Data Collection and Analysis (Mathematical Modeling): CBR with TI-Nspire CBR and CBL with TI-83/84	turn in: Quiz 5 from previous class HW: Quiz 6, Project 1 RDG: Herman & Laumakis – Using the CBR to Enhance Graphical Understanding Lapp & Cyrus – Using Data-Collection Devices to Enhance Students’ Understanding, 2000 C. Pilipczuk – Graphing Functions: Resolving Students’ Misconceptions by Using “Messy” Data and Calculator-Based Laboratory Activities, 2008
***	Oct. 20	*** NO CLASS (DAY OFF) *** Lab/Classroom will be available	FINISH PROJECT 1 Send Project 1 files electronically as email attachments to herman@rowan.edu before 3 pm on Oct 27
7	Oct. 27	Excel Spreadsheets	turn in: PROJECT 1 hardcopy Quiz 6 from previous class HW: Quiz 7 RDG: E. Glazer – Creating Technology-Enhanced Mathematical Investigations, 2003 J. Kerrigan – Using Mathematics Software to Enhance Elementary Students’ Learning, 2004
8	Nov. 3	Statistical Packages -- SPSS, FATHOM, JMP, Tinkerplots	turn in: Quiz 7 from previous class HW: Quiz 8, Project 2 RDG: Ploger, Klingler, & Rooney – Spreadsheets, Patterns, and Algebraic Thinking, 2000 D. Beigie – Investigating Limits in Number Patterns, 2002 M. Albrecht – The Volume of a Pyramid: Low-Tech and High-Tech Approaches, 2001
9	Nov. 10	Programming and use of APPS on TI-83/84 and TI-89 Memory management on TI-83/84 and TI-89	turn in: Quiz 8 from previous class HW: Quiz 9, Project 2 RDG: H. Shultz – The Postage-Stamp Problem, Number Theory, and the Programmable Calculator, 1999 TI – Guidebooks, read about APPS

10	Nov. 17	Geometry - Geometer's Sketchpad, Cabri, TI-Nspire Power Point	turn in: Quiz 9 from previous class HW: Quiz 10, Project 2 RDG: K. Goldberg book – Dynamic Geometry Software (pp. 125 – 126) Guidebook for Geometers Sketchpad -- GSP Learning Guide Guidebook for Geometers Sketchpad -- GSP Workshop Guide
11	Nov. 24	TI-Navigator TI-Interactive TI-Smart View	turn in: Quiz 10 from previous class HW: Quiz 11, Project 2 RDG: SRI – Research Relating to TI-Navigator Stroup, Carmona, & Davis – Improving on Expectations: Preliminary Results from Using Network-Supported Function-Based Algebra, 2005
12	Dec. 1	Internet resources for mathematics	turn in: Quiz 11 from previous class HW: Quiz 12, Project 2 RDG: J. Ameis book – Mathematics on the Internet: A Resource for K-12 Teachers (3 rd Ed), 2006
13	Dec. 8	15-minute Project Presentations (6 groups)	turn in: Quiz 12 from previous class HW: Quiz 13, Project 2
14	Dec. 15-19 Finals Week	15-minute Project Presentations (6 groups)	turn in: PROJECT 2 Quiz 13 from previous class