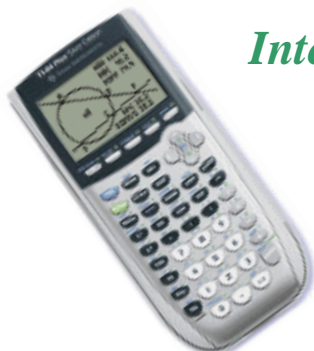


INT 359

Integrated Applications with the TI Calculator

Spring 2012 Syllabus



Instructor: John M. Newman, Ed.D.

Office: WCC 117

Phone: 623-1808

Fax: 623-1812

email: Please use WebCampus email

Skype: john_newman_gbc

Office Hours: Tuesday, Wednesday, and Thursday 2:00pm – 5:00pm
and by appointment.

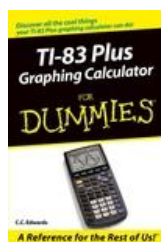
Course Information

| | |
|------------------------------|---|
| Course Title: | Integrated Applications with the TI Calculator |
| Course Number: | INT 359 |
| Course Discipline: | Integrative Seminar |
| Course Description: | This course will explore the capabilities of the TI-83 Plus, TI-84 Plus, and TI-84 Plus Silver Edition. Students will explore all aspects of the TI which includes all keyboard operations, program applications (statistical and financial packages), programming, and interfacing with the PC and Internet. |
| Course Prerequisites: | 40 or more total credits including ENG 102 or ENG 333, MATH 116 or MATH 120 |
| Course Location: | WCC 108 |
| Course Times: | Tuesday and Thursday 5:30 – 6:45pm |
| Course Credits: | Three (3) credits |

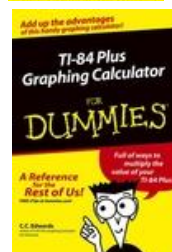
Textbooks

| | |
|----------------------------|------|
| Required Textbooks: | None |
|----------------------------|------|

Reference Textbooks:



TI-83 Plus Graphing Calculator For Dummies
C. C. Edwards
ISBN: 978-0-7645-4970-0
Paperback
288 pages
December 2003



TI-84 Plus Graphing Calculator For Dummies
C. C. Edwards
ISBN: 978-0-7645-7140-4
Paperback
288 pages
June 2004

Additional Materials:

Graphing calculator: TI-83 Plus, TI-83 Plus SE, TI-84 Plus, or **TI-84 Plus Silver Edition (preferred)**.
TI Graph Link cable for TI-83 users only.

Learner Outcomes and Measurements

Objective 1: Communication Skills–Strong

Due to the nature of the course, Internet delivery, students must communicate clearly and effectively in written and form, embracing discussion, reading, listening, and assessing information.

| Learner Outcomes | Measurements |
|---|----------------------|
| Communicate mathematical concepts clearly and effectively in writing. | Student assignments. |

Objective 2: Critical Thinking–Strong

Integrate creativity, logic, quantitative reasoning, and the hierarchy of inquiry and knowing in social and scientific understanding.

| Learner Outcomes | Measurements |
|---|--|
| Solve a variety of applied problems using problem-solving techniques from a variety of mathematical topics. Be able to compose programs on the TI-84 using the TI Basic language. | Student assignments, quizzes, final project. |
| Learn to associate mathematical ideas with calculating processes. | Student assignments. |

Objective 3: Personal and Cultural Awareness–Some Degree

Understand the role of calculators in society.

| Learner Outcomes | Measurements |
|---|----------------------|
| Develop an understanding of how mathematics helps shape societies through number systems, intellectual curiosity, probability, statistics and technological/scientific advancement. | Student assignments. |

Objective 4: Personal Wellness–Some Degree

Develop knowledge, skills, and behaviors which promote personal well-being.

| Learner Outcomes | Measurements |
|---|---|
| Use financial applications to find interest, future value, present value, and monthly payments. | Assignment and assessment on Finance section of course. |

Objective 5: Technological Understanding–Strong

Function effectively in modern society through the use of technology.

| Learner Outcomes | Measurements |
|---|--|
| Develop ability to correctly use the TI calculator solving various types of problems. | Use of scientific calculator on assignments, quizzes, and the final project. |
| Gain appreciation for the power of calculators. | Student assignments. |
| Gain understanding of how calculators process information | Final Project. |

Method of Instruction

INT 359 will utilize several methods of instruction. They will include:

1. Lecture.
2. Classroom discussions.
3. Electronic interaction via WebCampus.
4. Student written work.

Course Requirements

The INT 359 seminar will be based upon the following requirements:

- Student Assignments
- Quizzes
- Final Exams
- Final project

Policy Statements

Attendance Policy:

Class attendance is essential for student success. Without full participation and regular class attendance, students will find themselves at a severe disadvantage for achieving success in this course. Attendance will be taken electronically through WebCampus (login and material access) and may be reported to financial aid agencies. Attendance may also be used to determine the last day a student attended class if a student drops the class without doing a formal withdrawal.

Work Policy:

All course work is due on the assigned date and time.

LATE WORK WILL BE ACCEPTED UP TO THREE (3) DAYS AFTER THE DUE DATE FOR UP TO 50% CREDIT MAXIMUM. NO CREDIT AFTER THREE DAYS.

The instructor assumes no responsibility for making sure you receive any course material. LiveNet archives will be available for you to review at your convenience.

THE LAST DAY TO DROP A CLASS FOR NO GRADE IS FRIDAY, APRIL 27th.

Student Responsibilities

It is the student's responsibility to:

1. Read and understand the contents of the Great Basin College catalog.
2. Become familiar with all Great Basin College policies and procedures.
3. Be aware of all college deadlines, including dates for registration, change of registration and fee payment.
4. Contribute to the maintenance of a campus environment conducive to intellectual curiosity, civility and diversity.
5. Keep the college informed of changes in address, phone number, enrollment changes which might affect financial aid awards and/or any other circumstances which could affect satisfactory progress toward a degree.

Student Expectations

Students are expected to:

1. Attend class and complete all assignments in accordance with the expectations established by their instructors and programs of study.
2. Conduct themselves in the classroom in a manner which contributes to a positive learning

environment for all.

3. Familiarize themselves with all Great Basin College policies and procedures.

4. Ask questions and seek clarification, direction and guidance to any class assignment, Great Basin College policy or procedure which is unclear.

Students may be expected to complete class requirements beyond the published meeting times. This varies by course and instructor.

Policy of Academic Integrity:

The NSHE Code (Board of Regents Handbook 6.2.2q) expressly forbids all acts of academic dishonesty, including but not limited to “cheating, plagiarism, falsifying research data or results, or assisting others to do the same”. Academic honesty is expected in this course. All student work must be original and authentic. Any acts of cheating, copying, and/or plagiarizing are violations of the NSHE code of conduct and will be taken seriously. Students who cheat, copy another’s work, or plagiarize from the Internet or other sources will fail the course regardless of other course work and are subject to dismissal from the academic institution.

The Bottom Line. To do well in this course, you need to be organized, plan your time well, study your notes and handouts outside class, finish all the homework, and pay attention to directions. You don’t have to be a math whiz — good work habits count for more than native math ability. If you want to do well, you’ll do the work. If you don’t, you’re just wasting your time and money. GBC is a learning-centered institution. The faculty are here to help you, **but learning is your job.**

“Always bear in mind that **your own resolution to succeed, is more important than any other one thing.**” —Abraham Lincoln, 5 Nov 1855

Students with Disabilities:

GBC supports providing equal access for students with disabilities. An advisor is available to discuss appropriate accommodations with students. Please contact the ADA Officer (Julie Byrnes) in Elko at 775.753.2271 at your earliest convenience to request timely and appropriate accommodations.

Grading Policy and Grading Scale

Grades for INT 359 are based upon the following:

Quizzes: 10 – 50 points each.

Student Projects: 10-50 points each.

Final Exams: 100 points.

Final Project: 300 points.

Please keep the following in mind: Your grade is determined by grade points. Points are earned by demonstrating what you have learned, not what you have endured during this course.

Grading Scale

| | |
|----|------------|
| A | 95% – 100% |
| A- | 90% – 94% |
| B | 85% – 89% |
| B- | 80% – 84% |
| C | 75% – 79% |
| C- | 70% - 74% |
| D | 65% - 69% |
| D- | 60% - 64% |
| F | Below 60% |

Course Outline/Content/Schedule

Tentative Schedule of Class Meetings – Spring 2012

Please check WebCampus for the latest updates on topic information

The instructor reserves the right to modify the schedule at any time during the semester.

| Week | Date | Topic |
|----------------|--------------------|---|
| 1 | Jan. 23 Jan. 25 | Introduction, Syllabus, Course Expectations History of the Calculator Screen Captures, Using TI Connect, APP4MATH |
| 2 | Jan. 30 Feb. 1 | Basic Operations Getting to know the calculator Downloading/Uploading Programs |
| 3 | Feb. 6 Feb. 8 | Graphing Functions |
| 4 | Feb. 13 Feb. 15 | Programming |
| 5 | Feb. 20 Feb. 22 | Programming – Drawing Functions |
| 6 | Feb. 27 Feb. 29 | Applications – CellSheet, StudyCards, NoteFolio |
| 7 | Mar. 5 Mar. 7 | Probability and Combinatorics |
| 8 | Mar. 12 Mar. 14 | Statistics I |
| 9 | Mar. 19 Mar. 21 | Statistics II |
| | Mar. 26 Mar. 28 | Spring Recess – No Classes |
| 10 | Apr. 2 Apr. 4 | Finance Using the TVM Solver |
| 11 | Apr. 2 Apr. 11 | Algebra |
| 12 | Apr. 16 Apr. 18 | Advanced Algebra |
| 13 | Apr. 23 Apr. 25 | Trigonometry |
| 14 | Apr. 30 May 2 | Geometry – Cabri Jr. application |
| 15 | May 7 May 9 | Data Collection – External Probes |
| Finals Week | May 14-18 | Final Exam Final Project Due |