

Advice with Regard to Courses:

Math 120, 122	Any graphing calculator
Stat 142	One of: TI-84, TI-84 Plus, TI-83, TI-83 Plus is required
Math 144, 145, Stat 146	
Math 154, 155, Stat 156	
Math 161, 162, 163, 164, 165	

Particular examples of what you should be able to do with a graphing calculator:

1. Produce the graph of a function within an arbitrary viewing window.
2. Find the zeros of a function.
3. Compute the derivative of a function numerically.
4. Compute definite integrals numerically.
5. Find the equation of a linear regression line and graph it on a scatter plot.

Calculators that do Symbolic Mathematics:

The TI-89, TI Voyage 200, and TI-92 calculators are very sophisticated machines with a built in computer algebra system. They have capabilities that go way beyond those of the other TI-8X calculators. Other manufacturers have calculators with similar capabilities. In our judgment, it is not fair for some students to have access to these calculators during tests while others do not.

We therefore prohibit the use of the TI-89, the TI-92, the TI Voyage 200, and all other calculators that do symbolic computation during classroom testing situations.

If you have one, you are free to use it outside of the testing environment.

Other Important Comments:

1. The Ohio Northern University Bookstore keeps a supply of graphing calculators on hand as a convenience for students and faculty.
2. Although the graphing calculator technology is of use in mathematics, it is clear that we need to be careful about the appropriate use of technology as a substitute for careful analysis and thinking.
3. You need to assume responsibility for knowing how to use the calculator you have. There are just too many models available for faculty to be familiar with all of them.
4. I expect that most instructors will give students assignments that require the use of a graphing calculator. Most textbooks on the market today have exercises that require some sort of graphing or computational technology.
5. I also expect that instructors will prohibit the use of a graphing calculator in certain situations. In spite of what calculators can do, there are many fundamental facts and concepts that must be internalized. Reaching for a calculator to find the square root of 81, find the cosine of π , plot $\sin(2x)$, or take the derivative of $\tan(x)$ does not reflect the appropriate use of technology.