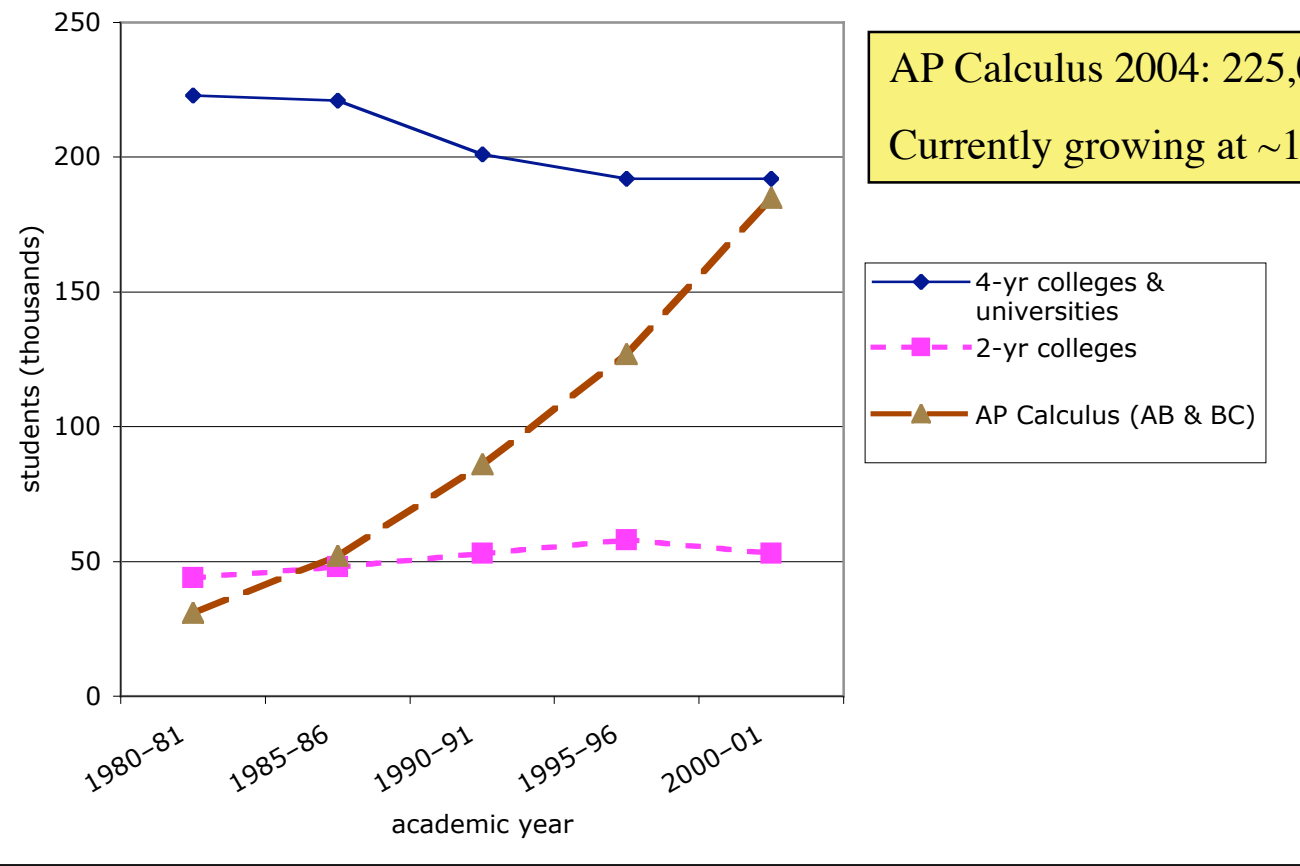


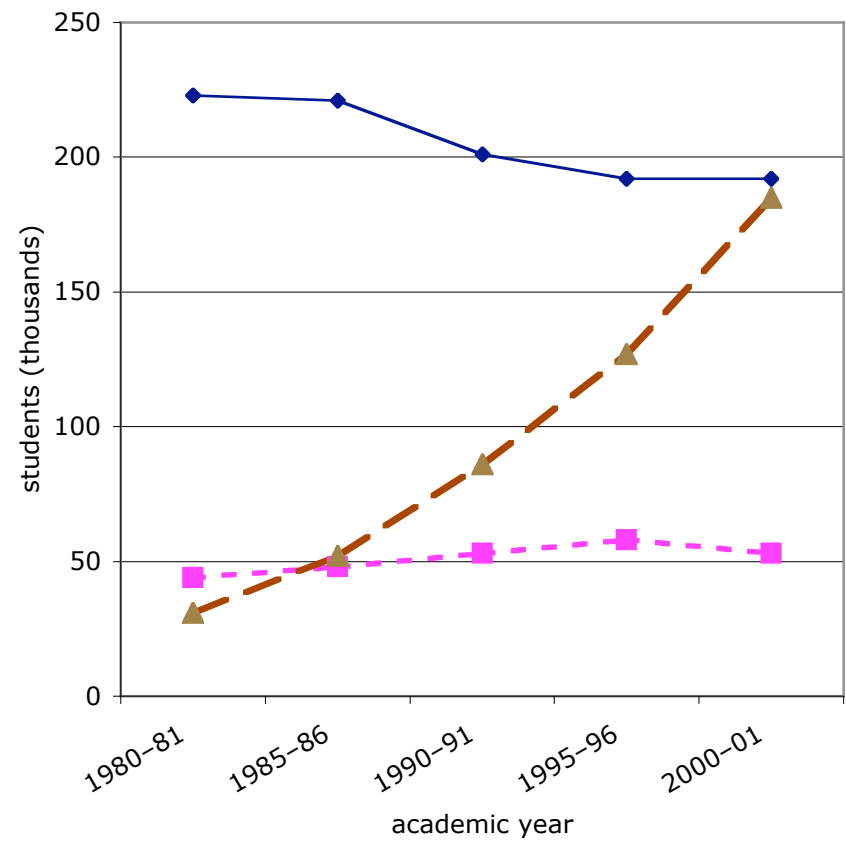
Mainstream Calculus I Enrollments
(fall only for 2- & 4-yr colleges & universities)



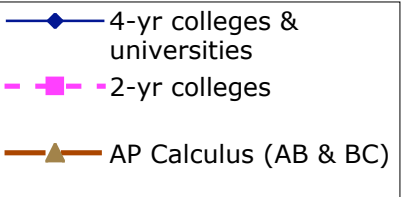
AP Calculus 2004: 225,000
Currently growing at ~12,500/year

◆ 4-yr colleges & universities
■ 2-yr colleges
▲ AP Calculus (AB & BC)

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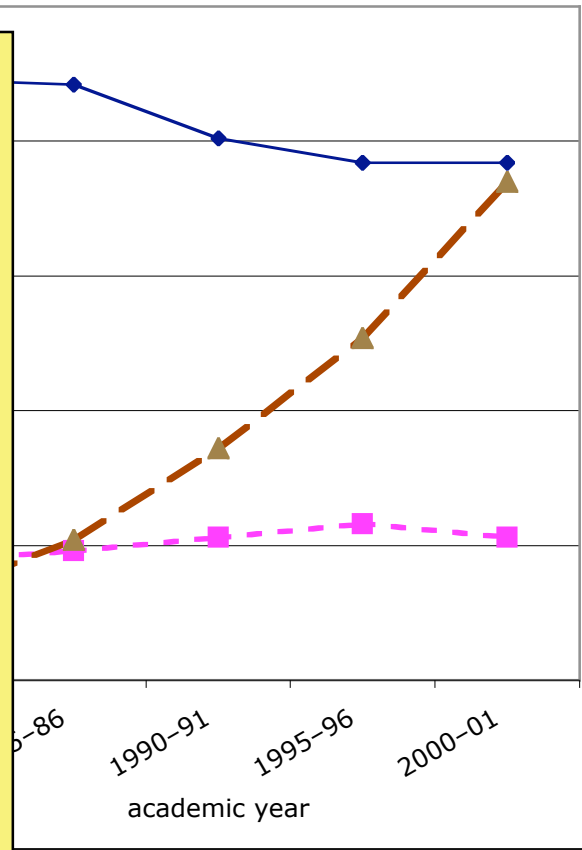


Estimated # of students taking
Calculus in high school: ~ 400,000

Estimated # of students taking
Calculus I in college: ~ 500,000
(includes Business Calc)

Mainstream Calculus I Enrollments
(fall only for 2- & 4-yr colleges & universities)

250



~150,000 arrive with credit for Calculus I

~250,000–350,000 retake calculus taken in HS

~150,000–250,000 will take calculus for first time in college

AP Calculus 2004: 225,000

Currently growing at ~12,500/year

- ◆— 4-yr colleges & universities
- -■- - 2-yr colleges
- -▲- - AP Calculus (AB & BC)

Estimated # of students taking Calculus in high school: ~ 400,000

Estimated # of students taking Calculus I in college: ~ 500,000 (includes Business Calc)

Bachelors degrees each year*

400,000 SMET + social & behavioral sciences

of which

210,000 Science, Math, Engineering

of which

100,000 physical, biological, &
ag sciences

60,000 engineering

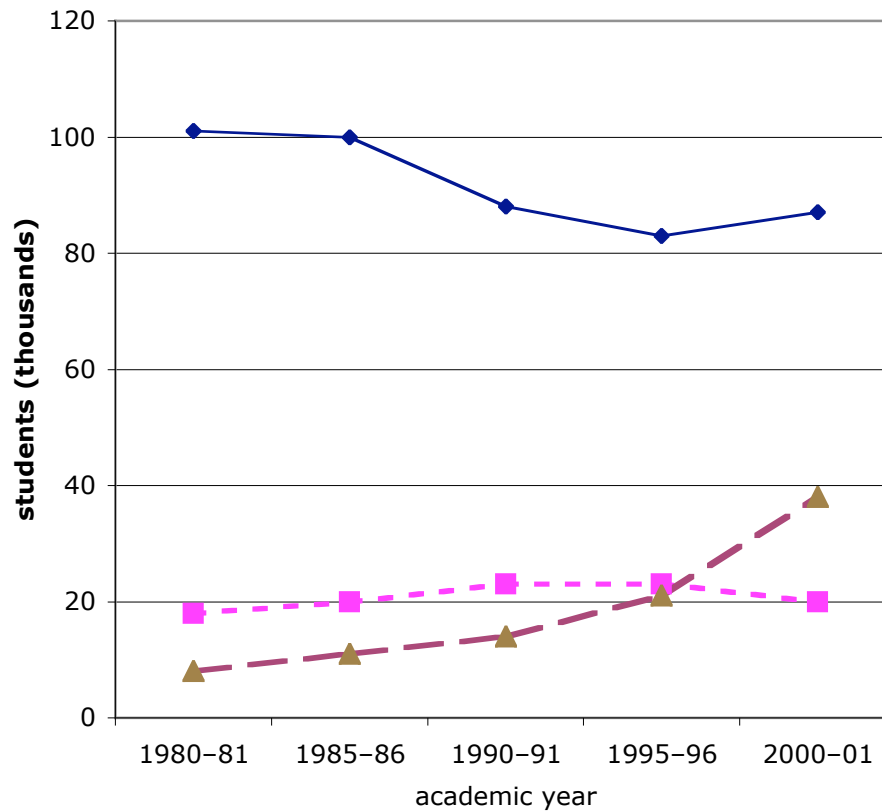
50,000 math, stat, comp sci

of which

11,000 mathematics

*NSF: among 24-year olds in 2000

Mainstream Calculus II Enrollments
(fall only for 2- & 4- year colleges and universities)



BC exam for 2004: 50,000

Still growing exponentially at over 9%/year

- 4-yr colleges & universities
- 2-yr colleges
- AP Calculus BC only

Implications:

1. The top 25% of students who 20 years ago would have taken Calculus I in college now take it and get credit for it while in high school. They have been replaced by an equal number of students who now make up the bottom 25%.
2. Students who take Calculus I in college either are retaking a course taken in high school or have had to overcome mathematical deficiencies. Calculus I is increasingly taken as a terminal course.
3. Especially at elite institutions but increasingly elsewhere, the traditional Calculus II which presupposes Calculus I at that institution does not serve the needs of the students who take it.