

## **Student Guide to Math Course Selection**

Given below is some information that is designed to help you in your course selection for next year. Students are encouraged to take four years of high school mathematics for several reasons, including:

- 1) Many academic fields of study and professional programs require college level mathematics (see backside) .
- 2) Students that complete four years of high school mathematics may satisfy the core mathematics requirement for most colleges and universities.

Next year HCHS will offer three different courses that students may choose from for their fourth year mathematics course:

Integrated Math IV  
AP Calculus  
AP Statistics

Since there may be some confusion as to what course is best suited for you, we suggest you read the course descriptions found in your Registration Packet and review the chart on the backside of this page. Students wishing to leave open the door for taking calculus in college should sign up for Integrated Math IV.

### **Advanced Placement Courses**

Advanced Placement courses are offered at the high school level to enable accelerated students to earn college credit. Currently, HCHS offers several advanced placement courses including Calculus, Biology, Statistics , Spanish, Art, History and English. Successful completion of the AP Exam earns the following college credit:

AP Calculus: Math 161 (Calvin) , Math 131 (Hope) , Math 201 (Grand Valley)  
AP Statistics: Math 143 (Calvin) , Math 210 (Hope) , Statistics 215 (Grand Valley)

Note: Most other colleges and universities offer similar credit

## MATH REQUIREMENTS FOR ACADEMIC PROGRAMS

	<b>Calvin College</b>	<b>Hope College</b>	<b>Grand Valley University</b>
Accountancy	Statistics	Statistics**	Calculus** Statistics
Anthropology			Statistics
Architecture	Calculus		
Biology	Calculus ** Statistics **	Calculus**	Calculus** Statistics**
Business	Calculus ** Statistics	Calculus** Statistics**	Calculus** Statistics
Chemistry	Calculus	Calculus	Calculus
Computer Science	Calculus Statistics **	Calculus Statistics**	Calculus Statistics
Economics	Calculus Statistics	Calculus Statistics	Calculus** Statistics
Engineering	Calculus	Calculus	Calculus Statistics**
Environmental / Earth Science	Calculus ** Statistics	Statistics**	Statistics**
Geography	Statistics **		Statistics
Geology	Calculus	Calculus** Statistics**	Calculus** Statistics**
Legal Studies			Statistics
Mathematics	Calculus Statistics**	Calculus Statistics**	Calculus Statistics**
Medical Technology	Calculus** Statistics**		Calculus** Statistics**
Nursing	Statistics**	Statistics**	Statistics
Occupational Therapy	Statistics	Statistics	Statistics
Optometry	Calculus Statistics		
Pharmacy	Statistics	Calculus	
Physical Therapy / Physician Assistant		Statistics	Statistics
Physics	Calculus	Calculus	Calculus
Political Science		Statistics	Statistics
Pre-Med, Dentistry	Calculus Statistics	Calculus	Calculus** Statistics**
Psychology	Statistics**	Statistics	Statistics
Social Work	Statistics**	Statistics	Statistics
Sports Medicine	Statistics		Statistics

\*\* This course is not required but recommended

Academic programs that do not require Calculus or Statistics : Art, Communications, Dance, English, Foreign Languages, History, Music, Philosophy, Religion, Theater