



S.M.A.R.T. RECOMMENDED HIGH SCHOOL COURSES FOR MATH, SCIENCE, AND ENGINEERING COLLEGE MAJORS

ENGLISH

Four years of English classes. The classes you take should include the grammatical structure of sentences, paragraph construction methods, different type of composition essays, and fundamentals of writing a research paper.

SOCIAL STUDIES

A minimum of two years of social studies classes

FORGIEN LANGUAGES

A minimum of two years of a foreign language

MATH

A minimum of three years of math classes: Algebra One, Algebra Two, and Geometry

Higher level classes include Trigonometry, Math Analysis, Pre-Calculus, Calculus, Advance Placement Calculus.

The more higher level math classes you take, the better prepared you will be for your major: engineering, mathematics, physics, chemistry, computer science

SCIENCE

A minimum of three of science classes: A combination of Biology, Chemistry, Physics, Earth Science

Higher level classes include Advanced Placement Biology, Chemistry, Physics courses

COMPUTER SCIENCE (Computer Science, Engineering, Mathematics, Physics College Majors)

At least one computer science class: Visual Basic, Visual C#, Visual C++, Robotics

S.M.A.R.T. CRITICAL SKILLS

The S.M.A.R.T. Critical Skills are skill sets that you can be introduced to by taking classes or self study. A basic understanding of a S.M.A.R.T. critical skill relative to your college major will better prepare you for academic success

Database Programming - Engineering, Math, Computer Science, Science Majors

HMTL/Multimedia Programming- Math, Engineering, Computer Science Majors

Spreadsheet Modeling - Mathematics, Engineering, Chemistry Majors

Computer Aided Design - Civil Engineering, Mechanical Engineering, Physics Majors

Drawing/Painting - Civil Engineering, Mechanical Engineering, Biology, Physics Majors

Technical/Business Writing- Engineering Majors

S.M.A.R.T. PARENTAL/ STUDENT

COURSE GUIDANCE SYSTEM

GRADE LEVEL

5 6 7 8 9 10 11 12

MATHEMATICS		5	6	7	8	9	10	11	12
GMATH	General Math								
PREALG	Pre Algebra								
ALG1	Algebra 1								
GEO	Geometry								
ALG2	Algebra 2								
TRIG	Trigonometry								
MTANAL	Math Analysis								
PRECAL	Pre Calculus								
CAL	Calculus								
APCAL	AP Calculus								
SCIENCE		5	6	7	8	9	10	11	12
GSCI	General Science								
EARSCI	Earth Science								
PHSCI	Physical Science								
BIO	Biology								
APBIO	Biology AP								
CHEM	Chemistry								
APCHEM	Chemistry AP								
PHYSIC	Physics								
APPHYSIC	Physics AP								
COMPUTER SCIENCE		5	6	7	8	9	10	11	12
CSVB	Visual Basic								
CSVCS#	Visual C#								
CSVCS++	Visual C++								
CSROB	Robotics								
S.M.A.R.T. CRITICAL SKILLS		5	6	7	8	9	10	11	12
DBPROG	Database Programming								
HTMPRG	HTML/Multimedia Programming								
SPREMOD	Spreadsheet Modeling								
CAD	Computer Aided Design								
DRAWPT	Drawing/Painting								
TBSWRT	Technical/ Business Writing								