

CLUSTER: HEALTH SCIENCE

MAJOR: SUPPORT SERVICES

High School

9
Algebra 1
English 1
Physical Science
Global Studies
Computer Science
Physical Education or Jr. ROTC

10
Geometry
English 2
Biology
Social Studies Elective
Introduction to Health Science
Foreign Language

11
Algebra 2
English 3
Biology
U. S. History
Health Science Technology 1 or
Biotechnical Engineering (PLTW)
Foreign Language

12
Precalculus
English 4
Biology 2 or Chemistry 2
Economics/Government
Anatomy and Physiology
Medical Terminology
Foreign Language
Health Science Technology 2

Recommended Electives: Based on a student's career goals and college requirements, the recommended electives may include an additional course in the same foreign language, or specific math, science, or language arts courses.

Note: Core academic courses listed represent the more commonly chosen courses and sequences. Any number of course combinations are possible depending on local school district offerings

York Technical College

Major: Environmental Elective of the Associate in Science (EEAS)

First Semester	Second Semester	Third Semester	Fourth Semester
ENG 101 – English Composition I	ECO 210 CHM 111	CHM 220	CHM 225
MAT 110 – College Algebra	ENG 102 HIS 201	MAT 165	BIO 225 or 210
CHM 110 – College Chemistry I	EVT 206 – Introduction to Environmental Compliance	EVT 206	EVT 254 Industrial Safety and Emergency Response OR EVT 110 Introduction to Treatment Facilities
COL 101		PSY 201 ENG 201	ENG 208 HIS 202

Source: York Technical College <http://www.yorktech.com/department/science/Environment/>

**Clemson University – Major: Biosystems Engineering
Concentration: Applied Biotechnology (Bachelor of Science)**

Freshman	Sophomore	Junior	Senior
CES 102 Introduction to Engineering (portfolio)	BE 210 Introduction to Biosystems Engineering	BE 312 Biological Kinetics / Reactor Modelling	BE 474 Engineering Project Management / Portfolio
CH 101 General Chemistry	BIOL 103 or 110	Ch Organic Chemistry Option	Life Science Option
MTHSC 106 Calculus of one Variable I	MTHSC 206 Calculus of Several Variables	EM 304 Mechanics of Materials	BE 438 Bioprocess Engineering Design
ENGL 103 Composition I or Humanities	PHYS 221 Physics w/Calculus II	CE 341 Introduction to Fluid Mechanics	BE 414 BE Unit Operations
Social science Req	EG 209 Intro to Engr/Computer Graphics	or ChE 230 Fluids/Heat Transfer	STS Requirement
Humanities/Social Science Requirement	BE 212 Fundamentals of BE	E&CE 307 Basic Electrical Engineering	Humanities/Social Science Req.
ENGR 130 Intro Engr Design/Problem Solving	MICRO 305 General Microbiology	BE 412 Heat & Mass Transport BE	BE 475 Biosystems Capstone Design
CH 102 General Chemistry	MTHSC 208 Intro Ord Differential Equations	BIOCH Biochemistry Option ³	BE 435 Applications in Biotech Engr
MTHSC 108 Calculus of one Variable II	CE 203 Engr Mech Statics/Dynamics	BE 314 BE Mechanical Design or ME 306 Fund of Machine Design	Minor/Communication Option
PHYS 122 Physics w/Calculus I	or ME 201 Statics /Dynamics ME	BE 428 Biochemical Engineering	Humanities/Social Science Requirement
ENGL 103 Composition I or Humanities	ME 310 Thermodynamics/Heat Transfer	BE 415 Instrumentation/Control BE	
Social Science Req.	or ChE 220 ChE Thermodynamics		

Source: Clemson University
<http://www.registrar.clemson.edu/publicat/catalog/2005/hehd.html>

Note: Course requirements and program plans are subject to change based on institution requirements. Check Websites for the latest information.