

BS Chemical Engineering, BS Mathematics, BA Chemistry,
and Green Engineering Minor *in four years*: (179 credits!)

First Year	
<i>First Semester</i>	
ENGE 1024: Engineering Explorations	2
MATH 1114 : Linear Algebra	2
ENGE 1034: Galileo	2
ES1	5
Credits	11
<i>Second Semester</i>	
CHEM 1036: General Chemistry	3
CHEM 1046: General Chemistry Lab	1
ENGE 1114: Exploration Engineering Design	2
MATH 2214: Intro to Diff. Equations	3
MATH 3034: Intro to Proofs	3
ENGL 1106: Freshman English	3
ES2	5
Credits	20
Second Year	
<i>First Semester</i>	
CHEM 2535: Organic Chemistry I	3
ENGR 2054: Galileo	1
CHEM 3615: Physical Chemistry	3
PHYS 2306: Foundations of Physics II	4
ES3	5
Credits	16
<i>Second Semester</i>	
CHE 2114: Mass and Energy Balances	3
CHEM 2536: Organic Chemistry II	3
CHEM 25**: Organic Syn-Tech Lab	2
MATH 3214: Vector Calculus	3
ES4	5
Credits	16

Third Year	
<i>First Semester</i>	
CHE 3114: Fluid Transport	3
CHE 3134: Separation Processes	3
CHEM 2164: Thermo	3
STAT 4604: Statistical Methods for Engineers	3
MATH 3*** (will be done with math minor after)	3
Intro to Green Engineering	3
Credits	18
<i>Second Semester</i>	
ChE 3015: Process Meas. and Controls	3
CHE 3044: Heat Transfer	2
CHE 3144: Mass Transfer	3
CHE 3184: Chemical Reactor Analysis and Design	3
CHE 2124: Simulations	3
Math 3***	3
Credits	17
Fourth Year	
<i>First Semester</i>	
CHE 4104: Process Materials	3
ChE 4185: Process and Plant Design (WI)	4
ESM 2214: Statics and Mechanics of Materials	3
Math 3*** and Math 4***	6
Credits	16
<i>Second Semester</i>	
ChE 4186: Process and Plant Design (WII)	4
Technical Elective	3
CHE 4134: Chemical Process Modeling	2
Green Engineering LCA	3
Two Math 4***	6
Credits	16

Legend	
Elective (Other)	
MATH	
ENGE	
Math/Enge Overlap	

Transfer	28
CHEM 1035: General Chemistry	3
CHEM 1045: General Chemistry Lab	1
ENGL 1105: Freshman English	3
MATH 1205: Calculus	3
MATH 1206: Calculus	3
MATH 1224: Vector Geometry	2
PHYS 2305: Foundations of Physics I	4
MATH 2224: Calculus	3

And I'll need to squeeze these in:

Phcem lab (1)

Survey of chem. Lit (1)

ENG 3764: Technical Writing	3
<i>Summer Term (must precede senior year)</i>	
MATH 4564: Oper. Methods	3
ChE 4014: ChE Laboratory	5

^ all of that totals 171 credits...damn

And the rest for BA Chemistry: (another 11 credits, BUT one of them will count as the tech elective for CHE)

CHEM 2154: Analytical Chemistry for Majors (4)

CHEM 2164: Analytical Chemistry Lab for Major (1)

CHEM 2424: Descriptive Inorganic Chemistry (3)

CHEM 4615: Physical Chemistry for Life Sciences (second semester of it, 3)

Useful:

Math requirements: <http://www.undergradcatalog.registrar.vt.edu/0910/science/math.html>

Chem req: <http://www.undergradcatalog.registrar.vt.edu/0910/science/chem.html>

Green eng: <http://www.eng.vt.edu/green/concentration.php>