

BS Mathematics, Minor in Chemistry

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>	
MATH 3124: Modern Algebra	3
MATH 3144: Linear Algebra I	3
STAT 4714: Prob & Stat for EE	3
CS 1054: Intro to Java	3
MATH 4994: Undergraduate Research	3
Credits	15
<i>Second Semester</i>	
MATH 3XXX: Advanced Calculus	3
MATH 4XXX: ...	3
Brewing Science	
Issues in Humanites, Science, and the Env	
Credits	6
Fourth Year	
<i>First Semester</i>	
MATH 4XXX: Real Analysis I	3
MATH 4XXX: ...	3
CHEM 3XXX: for chem. minor!	
Credits	6
<i>Second Semester</i>	
MATH 4XXX: Real Analysis II	3
MATH 5XXX: start of masters	3
Credits	6

Notes: In the third and fourth year, the blue and purple should be all I need to graduate. The one Chem course would be enough for the minor.

<u>Legend</u>	
CLE	
MATH	
Chem	
MATH Electives (“Math-related Courses”)	

<u>Transfer</u>	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

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>