Typical 4-year plan: ACS Chemistry Major

(11 chem, 2 physics, 3 math, independent study)

Year	Term	Courses for the ACS Chemistry Major
1	Fall	Gen Chem, Calc I
1	Spring	Organic I, Calc II
2	Fall	Organic II, Physics I, Math (MCS 221 or 222)
2	Spring	Inorganic I, Physics II, Quant, Chem Seminar*
3	Fall	P Chem I, Biochemistry and/or Organic III, Chem Seminar*
3	Spring	P Chem II, Biochemistry or elective, Chem Seminar*
4	Fall	Instrumental Methods, Biochemistry and/or Organic III, Independent Study, Chem Seminar*
4	Spring	Inorganic II, Biochem or elective, Chem Seminar*

CHEMISTRY

GUSTAVUS ADOLPHUS COLLEGE

Typical 4 year plan for the Chemistry Major

8.25 chem, 2 physics, 2 math courses

Year	Term	Courses for the Chemistry Major (Liberal Arts Perspective)
1	Fall	Intro Chem (CHE-106) or Gen Chem (CHE-107), Calc I (MCS-121)
1	J-term	Chem Thermodynamics w/lab (CHE-108) (if Intro Chem was taken in the fall)
1	Spring	Organic I (CHE-141), Calc II (MCS-122)
2	Fall	Organic II (CHE-241/242), Physics I (PHY-121/122)
2	Spring	Inorganic I (CHE-258), Physics II (PHY-171/172), Chem Seminar (CHE-399)*
3	Fall	P Chem I (CHE-371), Chem Seminar (CHE-399)*
3	Spring	Quantitative Analysis (CHE-270) or Env Chem (CHE-246), Chem Seminar*
4	Fall	Level III elective (Organic III [no lab] CHE-375 or Instrumental Methods CHE-380) and/or Biochemistry (CHE-255), Chem Seminar*
4	Spring	Biochemistry (CHE-255) and/or level III elective (P Chem II CHE-372 or Inorganic II CHE-385), Chem Seminar*

CHEMISTRY

GUSTAVUS ADOLPHUS COLLEGE

4-year Plan for Chemistry Teaching Major

Year	Term	Courses for the Chemistry Teaching Major
1	Fall	Intro Chem w/lab (CHE-106) or Gen Chem w/lab (CHE-107), General Psychology (PSY-100), Principals of Biology w/lab (BIO-101), FTS
1	J-term	Chem Thermodynamics w/lab (CHE-108) if CHE-106 was taken in the fall Or Career Orientation to Teaching (EDU-268)
1	Spring	Organic I w/lab (CHE-141), Calc I (MCS-121), Organismal Biology w/lab (BIO-102), Social Foundations of Education (EDU-230), Educational Technology (EDU-241)
2	Fall	Organic II w/lab (CHE-241/242), Calc II (MCS-122) Physics I w/calc (PHY-122) Physics Lab (PHY-121), either Causes of Climate Change w/lab (GEG-125) or Our Planet w/lab (GEO-111)
2	J-term	Career Orientation to Teaching (EDU-268) (if not taken freshman J-term) Or CHE-215 Research Methods
2	Spring	Inorganic I w/lab (CHE-258), Physics II w/calc (PHY-172), Physics Lab (PHY-171) Chem Seminar (CHE-399)*, Science Connections (EDU-248 [offered even years only] or Astronomy (PHY-102) [offered occasionally], Adolescent Health (HES-221) **Note: Apply for admission to Teacher Education Program**
3	Fall	Physical Chem I w/lab (CHE-371), Chem Seminar (CHE-399)*, either Causes of Climate Change w/lab (GEG-125) or Our Planet w/lab (GEO-111), Literacy for the K-12 Teacher (EDU-320), Developmental & Educational Psychology (EDU-330), Middle School: Teaching (EDU-340) or tale EDU-396 in J-term
3	J-term	Middle Level Directed Teaching (EDU-396)
3	Spring	Quantitative Analysis w/lab (CHE-270) or Environmental Chem w/lab (CHE-246), Chem Seminar*, Science Connections (EDU-248 [offered even years only] or Astronomy (PHY-102) [offered occasionally], Methods and Materials Inclusive Class (EDU-389), Human Relations in Education (EDU-398), Level III Chem elective (Physical Chem II CHE-372 or Inorganic Chem II CHE-385), or Biochemistry (CHE-255) or take fall of Senior year
4	Fall	Biochemistry (CHE-255) or take spring of Junior year, Level III elective (Organic III [no lab] CHE-375 or Instrumental Methods CHE-380 or take spring of Junior year), Chem Seminar*, Reading in the Content Area (EDU-350), Methods & Materials of Secondary Education (EDU-351), Chemistry Methods (EDU-355), Secondary Educ. Practicum (EDU-368)
4	Spring	**Student Teaching**, Secondary Directed Teaching (3 courses) (EDU-394) or K-12 Directed Teaching (3 courses) (EDU-395), Seminar (EDU-399)