

UNIVERSITY DELL REQUIREMENTS (42 Credits)

<u>Core (12 Credits)</u>		SEM	GR
COMM 101	Oral Argumentation & Advocacy	_____	_____
ENGL 123W	College Writing Workshop	_____	_____
<i>Integrative Seminars</i>		NMBR	
DELL 100-level	First-Year Seminar	_____	_____
DELL 400-level	Senior-Year Seminar	_____	_____

Artistic & Creative Thinking* (3 Credits)

Ethics or Civic Engagement* (3 Credits)

Historical Interpretation* (3 Credits)

Language & Intercultural Competence** (6 Credits)

Literary Analysis* (3 Credits)

Living Well* (2 Credits)

Quantitative Reasoning* (3 Credits)

MATH 103 Calculus I

Scientific Literacy* (4 Credits)

CHEM 111 Fundamentals of Chemistry I

Social Science Literacy* (3 Credits)

GENERAL ELECTIVES*** (26-33 Credits)

MAJOR REQUIREMENTS (56 Credits)

<u>Chemistry Core (50 Credits)</u>		SEM	GR
CHEM 111	Fundamentals of Chemistry I	_____	_____
CHEM 112	Fundamentals of Chemistry II	_____	_____
CHEM 221	Organic Chemistry I	_____	_____
CHEM 222	Organic Chemistry II	_____	_____
CHEM 242	Research Methods	_____	_____
CHEM 359	Analytical Chemistry I	_____	_____
CHEM 360	Analytical Chemistry II	_____	_____
CHEM 441	Chemistry Seminar	_____	_____
CHEM 421	Physical Chemistry I	_____	_____
CHEM 422	Physical Chemistry II	_____	_____
MATH 103	Calculus I	_____	_____
MATH 104	Calculus II	_____	_____
PHYS 141 or 161 ^A		_____	_____
PHYS 142 or 162 ^A		_____	_____

Research (3 Credits)

CHEM 461	Senior Research	_____	_____
CHEM 462	Senior Research	_____	_____

Chemistry Elective^B (3 credits)

NOTES

*Refer to the catalog and class schedule for lists of courses that satisfy University requirements.

**Must take two sequential courses.

***Courses that do not satisfy a major or DELL requirement. Can include coursework for a minor.

^APHYS 161/162 strongly suggested for BS track

^BChoose one CHEM course 200+ or above including CHEM 206 (environmental chemistry), CHEM 320 (biochemistry), fermentation chemistry, CHEM special topics offerings, or BIOL 322.

Total credits required for graduation: 124 Credits

For graduation with Honors, see Undergraduate Catalog

Chemistry Major (Bachelor of Science)

Sample Four-Year Plan

While not all students will take all the courses in the same sequence, the guide below can be used in combination with the online graduation progress report as a pathway to degree completion. See the Academic Regulations in the University of Lynchburg Undergraduate Catalog for all academic degree requirements. Students should consult their major advisor for more specific guidance.

Blue = Classes for Chemistry Major = 42

Pink = Core Curriculum = 12

Green = Electives = 48

Yellow = DELL Gen Ed Classes = 23

*** CHEM111 counts towards major and DELL, MATH 103 counts towards major and DELL***

Neither a second Quantitative Reasoning nor a second Scientific Literacy course is required to fulfill DELL requirements

Semester 1	Credits	Semester 2	Credits
College Success Strategies (G S 104)*	1	(CHEM 112) – Fundamentals of Chemistry II	4
***(CHEM 111) – Fundamentals of Chemistry I	4	(MATH 104) - Calculus II	3
***(MATH 103) - Calculus I	3	Language & Intercultural Competence II	3
Language & Intercultural Competence I	3	ENGL 123W	3
(DELL 100-level) First-Year Seminar	3	COMM 101	3

Semester Credits: 14

Semester Credits: 16

Semester 3	Credits	Semester 4	Credits
(CHEM 242) – Research Methods	3	(CHEM 222) – Organic Chemistry II	4
(CHEM 221) – Organic Chemistry I	4	(PHYS 162) – Physics II	4
(PHYS 161) – Physics I	4	Artistic & Creative Thinking	3
Living Well	2	Elective	3
Elective	3	Elective	3

Semester Credits: 16

Semester Credits: 17

Semester 5	Credits	Semester 6	Credits
(CHEM 200 level) – Chemistry elective**	3	(CHEM 360) – Analytical Chemistry II	4
(CHEM 359) – Analytical Chemistry I	4	Literary Analysis	3
Ethics or Civic Engagement	3	Social Science Literacy	3
Elective	3	Elective	3
Elective	3	Elective	3

Semester Credits: 16

Semester Credits: 16

Semester 7	Credits	Semester 8	Credits
(CHEM 421) - Physical Chemistry I	4	(CHEM 422) - Physical Chemistry II	4
(CHEM 461) - Senior Research	2	(CHEM 462) - Senior Research	1
(CHEM 441) – Chemistry Seminar	1	(DELL 400W-level) Senior-Year Seminar	3
Historical Interpretation	3	Elective	3
Elective	3	Elective	3
Elective	3		

Semester Credits: 16

Semester Credits: 14

Total Credits under this specific plan: 126
Minimum Credits Required to Graduate: 124

* Not required but strongly suggested.

** Any CHEM course 200 level or above. Also, BIOM 312 – Forensic Science is also accepted