

NORTHERN ARIZONA UNIVERSITY

Accelerated Master of Science in Chemistry
Department of Chemistry and Biochemistry

ACCELERATED PROGRAM: **BS Chemistry – MS Chemistry (General Emphasis)**

Overview

Note: This plan includes 12 units that are used to complete both the undergraduate and the graduate requirements: 0 at the undergraduate level and 12 at the graduate level. Students must receive a grade of "B" or higher in this coursework used towards both degrees.

Undergraduate requirements for students in the accelerated program

The following 39 units of core courses, maintaining a 3.0 GPA:

- [CHM 151](#), [CHM 151L](#), [CHM 152](#), and [CHM 152L](#)
- [CHM 235](#), [CHM 235L](#), [CHM 238](#), and [CHM 238L](#)
- [CHM 341](#)
- Select one from: [CHM 300W](#), [ENG 302W](#), or [ENG 305W](#)
- [MAT 136](#) and [MAT 137](#)
- [PHY 161](#) and [PHY 262](#)* (*Note: [PHY 262L](#) is not required.)

The following 29-32 units*, maintaining a 3.0 GPA in these courses:

- Select 8 additional CHM units from: [CHM 320](#), [CHM 320L](#), [CHM 338L](#), [CHM 350](#), or (CHM 360 or CHM 461) in consultation with research advisor and thesis committee to determine best coursework pathways (NOTE: CHM 360 and CHM 461 are duplicative. CHM 462C must be taken with CHM 461, and can be used towards the capstone or elective credits.)
- Select two of these capstone options (8-10 units):
 - [CHM 425C](#) and CHM 425LC (5 units)
 - [CHM 442C](#) and CHM 442LC (5 units)
 - [CHM 450C](#) and CHM 450LC (4 units)
 - [CHM 462C](#) and [CHM 460LC](#) (4 units)
- [CHM 485](#) (1-2 units)
- Select two CHM graduate-level courses (500- or 600-level) chosen with your advisor's and committee's approval (6 units)
- CHM 685 (6 units)

*Note that some courses have prerequisites that are not otherwise required for the major.

Students in the accelerated program are also required to:

- Select a research advisor and thesis committee upon acceptance to the program
- Maintain satisfactory progress (as determined by the research advisor and thesis committee) on a research project commencing with Year 3

Graduate requirements for students in the accelerated program

Coursework: The following courses while remaining in [good academic standing](#):

General Emphasis (32-35 units)

Formal coursework (a minimum of 18 units):

- [CHM 698](#) (4 units)

- Graduate level courses (500- or 600-level) chosen with your advisor's and committee's approval, consisting of at least 9 units in CHM; [CHM 595](#) does not count towards the 9 units with a CHM prefix, but may count towards the 14 unit minimum with advisor and committee approval (14-15 units)

Research units (a minimum of 14 units):

- [CHM 685](#) for the research of an approved thesis (8-11 units)
- [CHM 699](#) for the writing and oral defense of an approved thesis* (4-6 units)
* NOTES: Once you begin taking CHM 699, you must continue to enroll each semester in at least 1 unit of CHM 699 until you graduate.
- [CHM 697](#) (1 unit)

Additional requirements:

- Passing proficiency exams in three of the five subdisciplines of chemistry (see the Program Rules and Guidelines)
- Successful completion of a research thesis.

Suggested Progression Plan

[^] Denotes undergraduate course applied towards the undergraduate degree

[%] Denotes a course that applies towards both degrees

^{*} Denotes graduate course applied towards the graduate degree

Fall Year 1 (Term 1: 16 units)	Spring Year 1 (Term 2: 17 units)
[^] CHM 151 (4)	[^] CHM 152 (3)
[^] CHM 151L (1)	[^] CHM 152L (1)
[^] MAT 136 (4)	[^] MAT 137 (4)
[^] ENG 105 (4)	[^] Liberal Studies/Diversity (3)
[^] Liberal Studies/Diversity (3)	[^] Liberal Studies/Diversity (3)
	[^] undergraduate elective (3)

Fall Year 2 (Term 3: 18 units)	Spring Year 2 (Term 4: 16 units)
[^] CHM 235 (4)	[^] CHM 238 (3)
[^] CHM 235L (1)	[^] CHM 238L (1)
[^] PHY 161 (4)	[^] PHY 262 (3)
[^] Liberal Studies/Diversity (3)	[^] Liberal Studies/Diversity (3)
[^] Liberal Studies/Diversity (3)	[^] Liberal Studies (3)
[^] undergraduate elective (3)	[^] undergraduate elective (3)

Fall Year 3 (Term 5: 14-16 units)	Spring Year 3 (Term 6: 13-15 units)
[^] CHM 341 (3)	[^] undergraduate elective (3)
[^] additional units of CHM (3-4)	[^] additional units of CHM (3-4)
[^] additional units of CHM or undergraduate elective (2-3)	[^] CHM 300W, ENG 302W, or ENG 305W (3)
[^] Liberal Studies/Diversity (3)	[^] CHM 485 (1-2)
[^] undergraduate elective (3)	[^] undergraduate elective (3)

Fall Year 4 (Term 7: 16-18 units)	Spring Year 4 (Term 8: 14-15 units; graduate with BS)
[^] CHM 350 (3)	[^] undergraduate elective (3)
[^] first capstone option (4-5)	[^] second capstone option (4-5)
[%] CHM 5XX or CHM 6XX (3)	[%] CHM 5XX or CHM 6XX (3)
[%] CHM 685 (3)	[%] CHM 685 (3)
[*] CHM 595 (2) or CHM 5XX or CHM 6XX (3)	[*] CHM 698 (1)
[*] CHM 698 (1)	

Fall Year 5 (Term 9: 9 units)	Spring Year 5 (Term 10: 9 units; graduate with MS)
[*] CHM 5XX or CHM 6XX (3)	[*] CHM 5XX, CHM 6XX, or graduate-level course (3)
[*] CHM 685 (4)	[*] CHM 685 (3)
[*] CHM 698 (1)	[*] CHM 698 (1)
[*] CHM 697 (1)	[*] CHM 699 (2)

