Planner Requirements Overview

CHEMXXXBBS 2025 Sequence (Requirement: 000020045, Effective Date: 08/01/2025)

Acad Prog:	UBACH	Undergraduate	Default Units Per Term:	15	Send to Degree Search:	Yes
Acad Plan:	CHEMXXXBBS	Chemistry BS	Total Units to Graduate:	120	Use Catalog Prefs:	Yes
			Reporting Only:	No		

[01] 1st Semester (Units: 17, Lines: 7)

01.01 **CHEM 150 (Fulfills Subject Area 5A)**
0010, Major Requirement (GE-5A Physical Science)
Units: 4,CRITICAL
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Co-Req

CHEM 150L (Fulfills Subject Area 5C) (1 of 1)
0020, Major Requirement (GE-5C Laboratory), Units: 1

Pre-Requirement	
	o CHEM 101 (1605/0010) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0020) [Same Term OK] and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0080) [Same Term OK] and o (1602/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0080) [Same Term OK]

01.02 **CHEM 150L (Fulfills Subject Area 5C)**
0020, Major Requirement (GE-5C Laboratory)
Units: 1
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Co-Req

CHEM 150 (Fulfills Subject Area 5A) (1 of 1)
0010, Major Requirement (GE-5A Physical Science), Units: 4

Pre-Requirement	
	o CHEM 101 (1605/0010) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0020) [Same Term OK] and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0080) [Same Term OK] and o (1602/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0080) [Same Term OK]

01.03 **MATH 160 (Fulfills Subject Area 2)** Typically Offered: Fall/Spring/Summer
0040, Major Requirement (GE-2 Math/Quant Reasoning), Units: 5
Min Grade Points/Unit: 2
Notes: A strong background in HS MATH (Algebra I & II, Geometry & Trig) or MATH 125 with a grade of C or better.

Pre-Requirement	
	o MATH 125 or MATH 126 (1541/0010) o see above and o MATH 125 or MATH 126 (1644/0010) o see above and o MATH 125 or MATH 126 (1644/0020) o see above

01.04 **Additional Elective - 3 Units** Display Note: Y
0350, Elective Requirement (Elective), Units: 3 Typically Offered: Intermittently
Allow Any Course: Unused Courses
Notes: Additional Elective - 3 Units: For First Year Freshman Students UNIV 180-5 is recommended.

01.05 **GEW 101B (formerly GEW 101) (Fulfills Subject Area 1A)** Major 1 Only: Y
0270, CAL GETC (GE-1A English Composition), Units: 3
Min Grade Points/Unit: 1.7

Pre-Requirement	o (1603/0010) and o [Support Course] GEW 101A (1603/0020) and o (1604/0010) and o [Support Course] GEW 101A (1604/0020) and o (1603/0030) and o (1603/0040) and o (1603/0050) and o DSP 3/4 [Support Course] GEW 101A - GE A3 (1603/0060) and o [REQUIRED Support Course] DSP 2 (1603/0070) [Same Term OK] and o (1604/0030) and o (1604/0040) and o (1604/0050) and o DSP 3/4 [Support Course] GEW 101A - Subject Area 1B (1604/0060) and o [REQUIRED Support Course] DSP 2 (1604/0070) [Same Term OK]

01.06 **CHEM 100** Typically Offered: Fall and/or Spring
0005, Major Requirement (Major Requirement), Units: 1
Min Grade Points/Unit: 2

[02] 2nd Semester (Units: 15, Lines: 5)

02.01 **CHEM 162** Typically Offered: Fall and/or Spring
0070, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o CHEM 150 (Fulfills Subject Area 5A) (20045/0010) o see above and o CHEM 150L (Fulfills Subject Area 5C) (20045/0020) o see above and o MATH 125 or MATH 126 (1541/0010) o see (01.03) above and o MATH 125 or MATH 126 (1644/0010) o see (01.03) above and o MATH 125 or MATH 126 (1644/0020) o see (01.03) above and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0080) and o (1602/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0040) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0080)

02.02 **MATH 162** Typically Offered: Fall/Spring/Summer
0050, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (20045/0040) o see above

02.03 **PHYS 201** Typically Offered: Fall and/or Spring
0060, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (20045/0040) o see (02.02) above

02.04 **GEO 102 (Fulfills Subject Area 1C)** Major 1 Only: Y
0250, CAL GETC (GE-1C Oral Communication), Units: 3
Min Grade Points/Unit: 1.7

[03] 3rd Semester (Units: 13, Lines: 5)

03.01 **CHEM 201**
0080, Major Requirement (Major Requirement)
Units: 3
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Co-Req

CHEM 201L (1 of 1)
0090, Major Requirement (Major Requirement), Units: 2

Pre-Requirement	o CHEM 150 (Fulfills Subject Area 5A) (20045/0010) o see (02.01) above and o CHEM 150L (Fulfills Subject Area 5C) (20045/0020) o see (02.01) above and o CHEM 162 (20045/0070) o see above

03.02 **CHEM 201L**
0090, Major Requirement (Major Requirement)
Units: 2
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Co-Req

CHEM 201 (1 of 1)
0080, Major Requirement (Major Requirement), Units: 3

Pre-Requirement	o CHEM 150 (Fulfills Subject Area 5A) (20045/0010) o see (02.01) above and o CHEM 150L (Fulfills Subject Area 5C) (20045/0020) o see (02.01) above and o CHEM 162 (20045/0070) o see (03.01) above

03.03 **PHYS 202** Typically Offered: Fall and/or Spring
0100, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o PHYS 201 (20045/0060) o see above and o MATH 162 (20045/0050) o see above

03.04 **MATH 260** Typically Offered: Fall/Spring/Summer
0110, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 162 (20045/0050) o see (03.03) above

[04] 4th Semester (Units: 15, Lines: 6)

Planner Requirements Overview

04.01 **CHEM 202**
0120, Major Requirement (Major Requirement)
Units: 3
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Co-Req

CHEM 202L (1 of 1)
0130, Major Requirement (Major Requirement), Units: 2

Pre-Requirement	o CHEM 201 (20045/0080) o see above and o CHEM 201L (20045/0090) o see above

04.02 **CHEM 202L**
0130, Major Requirement (Major Requirement)
Units: 2
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring

Co-Req

CHEM 202 (1 of 1)
0120, Major Requirement (Major Requirement), Units: 3

Pre-Requirement	o CHEM 201 (20045/0080) o see (04.01) above and o CHEM 201L (20045/0090) o see (04.01) above

04.03 **CHEM 275** Typically Offered: Fall and/or Spring
0140, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o MATH 160 (Fulfills Subject Area 2) (20045/0040) o see (02.02) above and o CHEM 201 (20045/0080) o see (04.01) above and o CHEM 201L (20045/0090) o see (04.01) above and o CHEM 162 (20045/0070) [Same Term OK] o see (03.01) above

04.04 **Subject Area 1B - Critical Thinking** Major 1 Only: Y
0290, CAL GETC (GE-1B Critical Thinking), Units: 3

04.05 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0280, CAL GETC (GE-3/4/6), Units: 3

[05] 5th Semester (Units: 16, Lines: 5)

05.01 **CHEM 300** Typically Offered: Fall and/or Spring
0170, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o CHEM 201 (20045/0080) o see (04.01) above and o CHEM 201L (20045/0090) o see (04.01) above

05.02 **CHEM 401** Typically Offered: Fall and/or Spring
0200, Major Requirement (Major Requirement), Units: 4
Min Grade Points/Unit: 2

Pre-Requirement	o CHEM 162 (20045/0070) o see (03.01) above and o MATH 162 (20045/0050) o see (03.03) above and o PHYS 202 (20045/0100) o see above

05.03 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0300, CAL GETC (GE-3/4/6), Units: 3

05.04 **GES 103 (Fulfills Subject Area 5B)** Typically Offered: Fall and/or Spring
0030, CAL GETC (GE-5B Biological Science), Units: 3

Pre-Requirement	o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0080) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1602/0040) and o (1602/0020) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0080) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0060) and o [Support Course] MATH 105 (Fulfills Subject Area 2) (1601/0040)

05.05 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0310, CAL GETC (GE-3/4/6), Units: 3

[06] 6th Semester (Units: 17, Lines: 6)
Semester 6 Notes: After Earning 85 Units Apply for Graduation Online Through Your Student Center

06.01 **CHEM 341** Typically Offered: Fall/Spring/Summer
0150, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o CHEM 201 (20045/0080) o see (04.01) above and o CHEM 201L (20045/0090) o see (04.01) above

06.02 **CHEM 416** Typically Offered: Fall and/or Spring
0180, Major Requirement (Major Requirement), Units: 5
Min Grade Points/Unit: 2

Pre-Requirement	o CHEM 202 (20045/0120) o see above and o CHEM 202L (20045/0130) o see above and o CHEM 275 (20045/0140) o see above and o MATH 160 (Fulfills Subject Area 2) (20045/0040) o see (02.02) above

06.03 **GE Upper Division** Major 1 Only: Y
0360, CAL GETC (Upper Division GE), Units: 3
Notes: Certain upper-division BIOL,MATH and PHYS courses can fulfill both the UD25 requirement and an upper-division elective for the major, but must be taken after 60 units has been completed. Consult with a CHEM faculty advisor to determine acceptable courses.

06.04 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0320, CAL GETC (GE-3/4/6), Units: 3

06.05 **Additional Elective - 3 Units** Typically Offered: Intermittently
0390, Elective Requirement (Elective), Units: 3
Allow Any Course: Unused Courses

[07] 7th Semester (Units: 16, Lines: 7)

Planner Requirements Overview

07.01 **CHEM 404**
0220, Major Requirement (Major Requirement)
Units: 4
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring



CHEM 404L (1 of 1)
0230, Major Requirement (Major Requirement), Units: 1

Pre-Requirement	o CHEM 201 (20045/0080) o see (04.01) above and o CHEM 201L (20045/0090) o see (04.01) above and o CHEM 162 (20045/0070) o see (03.01) above

07.02 **CHEM 404L**
0230, Major Requirement (Major Requirement)
Units: 1
Min Grade Points/Unit: 2
Typically Offered: Fall and/or Spring



CHEM 404 (1 of 1)
0220, Major Requirement (Major Requirement), Units: 4

Pre-Requirement	o CHEM 201 (20045/0080) o see (04.01) above and o CHEM 201L (20045/0090) o see (04.01) above and o CHEM 162 (20045/0070) o see (03.01) above

07.03 **GE Upper Division** Major 1 Only: Y
0370, CAL GETC (Upper Division GE), Units: 3
Notes: Certain upper-division BIOL,MATH and PHYS courses can fulfill both the UD25 requirement and an upper-division elective for the major, but must be taken after 60 units has been completed. Consult with a CHEM faculty advisor to determine acceptable courses.

07.04 **CHEM 402** Typically Offered: Fall Only
0160, Major Requirement (Major Requirement), Units: 3
Min Grade Points/Unit: 2

Pre-Requirement	o CHEM 162 (20045/0070) o see (03.01) above and o MATH 162 (20045/0050) o see (03.03) above and o PHYS 202 (20045/0100) o see (05.02) above

07.05 **CHEM 498 or 499** Advisor Approved: Y
0190, Major Requirement (Major Requirement), Units: 2
Min Grade Points/Unit: 2

07.06 **SUBJECT AREA - 3A, 3B, 4H, 4C, 6** Major 1 Only: Y
0330, CAL GETC (GE-3/4/6), Units: 3

[08] 8th Semester (Units: 11, Lines: 5)

08.01 **CHEM 405** Typically Offered: Spring Only
0210, Major Requirement (Major Requirement), Units: 2
Min Grade Points/Unit: 2

Pre-Requirement	o CHEM 401 (20045/0200) [Same Term OK] o see above

Planner Requirements Overview

08.02 **Upper-Division Science Elective**
0400, Major Requirement (Major Elective), Units: 2
Min Grade Points/Unit: 2
Notes: Must Complete a Total of 5 Units of Upper-Division Science Electives. Please check Pre-requisite requirements before selecting a course. Once ALL course selections are made on this page, please be sure to run your ARR Planned Report (see link at the top of this page) to make sure your selections complete all degree requirements.

Pre-Requirement	o MATH 162 (20045/0050) o see (03.03) above and o CHEM 201 (20045/0080) o see (04.01) above and o CHEM 201L (20045/0090) o see (04.01) above

08.03 **CHEM 498 or 499** Advisor Approved: Y
0240, Major Requirement (Major Requirement), Units: 2
Min Grade Points/Unit: 2

Pre-Requirement	o CHEM 498 or 499 (20045/0190) [Same Term OK]

08.04 **Upper-Division Science Elective**
0410, Major Requirement (Major Elective), Units: 3
Min Grade Points/Unit: 2
Notes: Must Complete a Total of 5 Units of Upper-Division Science Electives. Please check Pre-requisite requirements before selecting a course. Once ALL course selections are made on this page, please be sure to run your ARR Planned Report (see link at the top of this page) to make sure your selections complete all degree requirements.

Pre-Requirement	o MATH 162 (20045/0050) o see (03.03) above and o CHEM 201 (20045/0080) o see (04.01) above and o CHEM 201L (20045/0090) o see (04.01) above

08.05 **Additional Elective - 2 units** Typically Offered: Intermittently
0380, Elective Requirement (Elective), Units: 2
Allow Any Course: Unused Courses