BYU
Chemistry BS

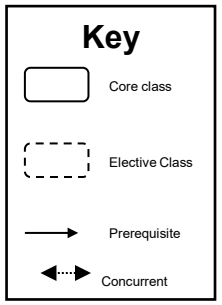
Requirements / Prerequisites
2024-2025 Academic Year

Major (76 Hours)

1. Complete the following: Chem 111, Chem 112, Chem 113, Chem 201, Chem 227, Chem 351M, Chem 352M, Chem 354, Chem 381M, Chem 391, Chem 460, Chem 462, Chem 463, Chem 464, Chem 465, Chem 495, Chem 514, Chem 518, Chem 594R
2. Complete the following: Math 112, Math 113, Math 213, Math 215, Phscs 121, Phscs 220
3. Complete either Chem 455 or Chem 521 & 523.
4. After consulting with an advisor, complete 12 hours from the following: Bio, 130, Cell 120, Chem 384, Chem 397R, Chem 455, Chem 482, Chem 496R, Chem 498R, Chem 521, Chem 523, Chem 552, Chem 553, Chem 555, Chem 563, Chem 565, Chem 567, Chem 569, Chem 581, Chem 584, Chem 586, Chem 596R, HONRS 499R, Phscs 123

Minor (20.5-21.5 Hours)

1. Complete one of the following options:
   a. Chem 111, Chem 112, Chem 113.
   b. Chem 105, Chem 106, Chem 107.
2. Complete two courses from the following: Chem 351, Chem 352, Chem 357, Chem 462, Chem 463, Chem 467, Chem 468, Chem 481.
3. Complete Chem 201.
4. Complete two hours from the following: Chem 353, Chem 354, Chem 355, Chem 464, Chem 465.
5. Complete 1 of the following courses: Chem 227 or Chem 455.



CORE

Freshman

Chem 111 F
Chem 112 W
Chem 113 W
Chem 201 FWSp
Math 112 FWSS, S-S
Math 113 FWSS, S-S

Sophomore

Chem 351M F
Chem 227 FSp
Phscs 121 FWSp
Math 213 & 215 FWSS
Chem 354 Pre-Req: Chem 201 FWSp
Chem 352M W
CHEM 381M W
Phscs 220 FWSp
If research is chosen for elective Chem 497R* Pre-req: Chem 201 & Consent FF2WW2SpSu

Junior

Chem 514 Pre-req: Chem 462 or concurrent F
Chem 518 Pre-req: Chem 201 F
Chem 460 Pre: req: Math 113 & 213 F
Chem 462 Chem 227 or concurrent F
Chem 391 Pre-req: Chem 227 & 351M FW
Chem 464 W
Chem 463 Pre-Req: PHSCS 220 W
Chem 465 W
If research is chosen for elective Chem 497R* Pre-req: Chem 201 & Consent FF2WW2SpSu

Senior

Requirement #4 Elective if not doing Research
Chem 594R FW
Requirement #4 Elective if not doing Research
Chem 521 or 455** See pre-reqs in elective List below F
If research is chosen for elective Chem 498R* Pre-Req: Chem 201 & Consent FWSS
Requirement #4 Elective if not doing Research
Chem 495 FW
Requirement #4 Elective if not doing Research
**Chem 523 Pre-req: See pre-reqs In electives below W
If research is chosen for elective Chem 498R* Pre-Req: Chem 201 & Consent FWSS

After consulting with an advisor, complete 12 hours from the following to fulfill requirement #4.

With approval, certain 300-level and above courses in allied fields of physics, statistics, engineering, and biology

*Bio 130 or CELL 120 FWSS (depending on class)
Chem 482 Pre-Req: Chem 381M Or Chem 481 W
CHEM 384 Chem 201 & Chem 227 See department
Chem 496R Pre-req: Chem 201 & Instructor's consent FWSpSu
Chem 397R Pre-req: Chem 111, Chem 112, & Chem 113 When taught: Contact Dept
Chem 498R* Pre-Req: Chem 201 & Consent FWSS
Chem 455 Pre-Req: Chem 354 & Chem 201 F
Chem 521 Pre-Req: Chem 462 & PHSCS 220 F
Chem 523 Pre-Req: Chem 201 & 521 W
Chem 552 Pre-Req: Chem 352 (M), Chem 462 & Chem 463 (or 468) F
Chem 553 Pre-Req: Chem 352(M) W
Chem 555 F
Chem 563 Pre-Req: Chem 462 & Chem 463 Contact Department
Chem 565 Pre-Req: Chem 462 W
Chem 567 Pre-Req: Chem 462 & 463 Contact Department
Chem 569 Pre-Req: Chem 462 or Chem 468 F
Chem 581 Pre-Req: Chem 482 F
Chem 584 Pre-Req: Chem 227, Chem 381M, & Chem 384 F
Chem 586 Pre-Req: Chem 584 W
Chem 596R Pre-Req: None, Contact Department
Honrs 499R FWSpSu
PHSCS 123 Pre-req: PHSCS 121, Calculus FWSp

*Enrolling in CHEM 497R and 498R gives students an opportunity to be mentored in a faculty's research lab and receive class credit. Enrollment in 497R can be repeated for several successive semesters, usually followed by 498R. Permission is required from the faculty member. Contact the department office for specific details.

** Take either Chem 521 & 523 or 455 for the required class(s). The other course(s) may be used towards the 12 credits of electives.

Please note: When Taught is subject to change.
Only Bio 130 or Cell 120 may be used, not both.
Guide only—please consult MyMAP for full requirements.

Updated 08/28/2024