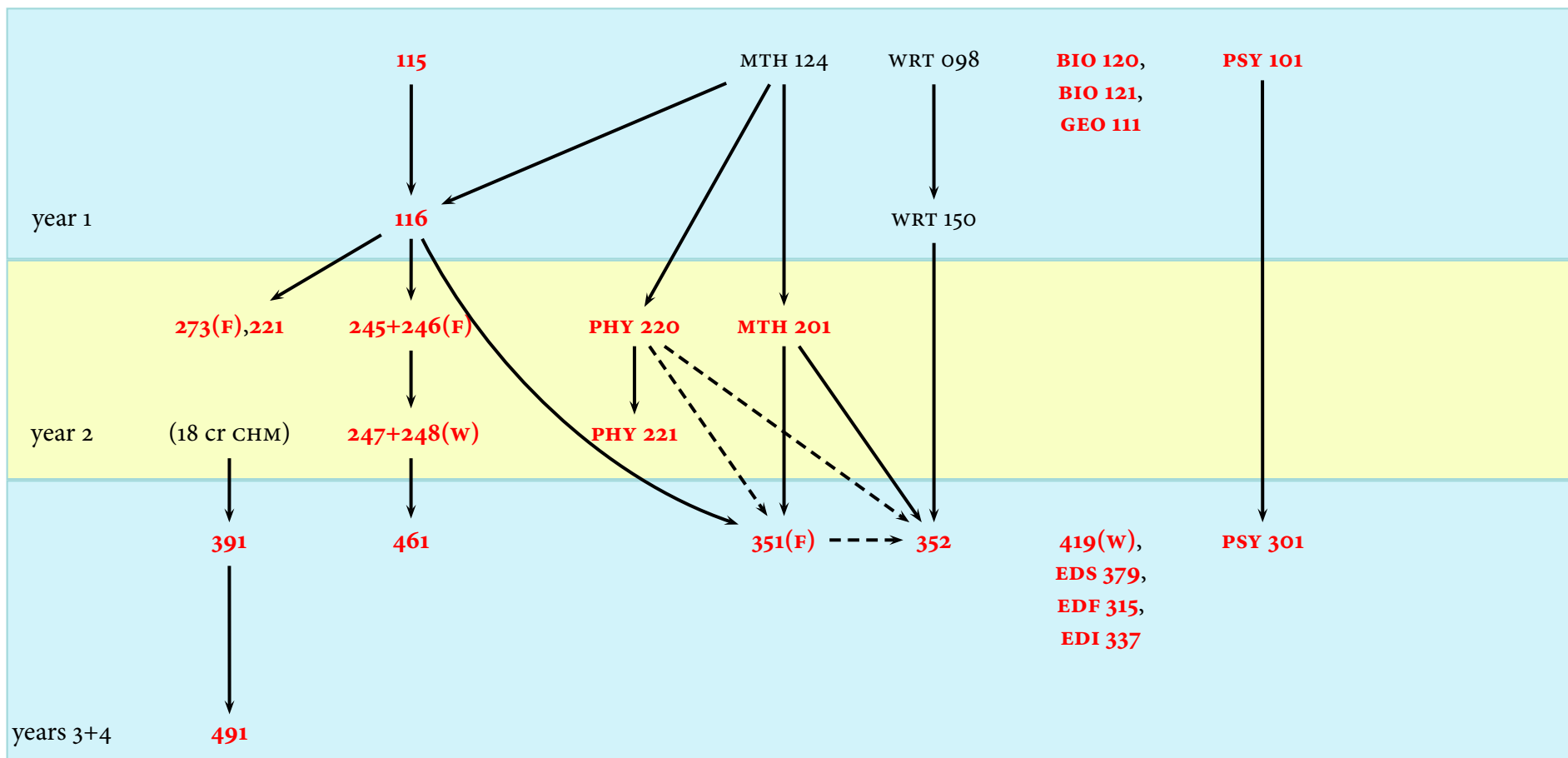


Prerequisite Structure
Chemistry Major — Education Emphasis
Catalog years 2016 and later



- Solid arrows indicate strict prerequisites (one course must be taken before the other.) Dashed arrows indicate prerequisites that may be taken concurrently. Recommended scheduling within a 4-year program is indicated by shaded bands but is not required.
- (F) and (w) indicate courses that are taught only in fall or winter semesters.
- **These courses** are required.
- Students seeking a degree certified to meet American Chemical Society guidelines must take additional CHM courses above the 200 level totaling at least 7 credits and at least 190 hours of lab, and including either CHM 462 or 477. CHM 490 and 499 can contribute toward this requirement.

Course titles, credits (Cr), and upper-level laboratory hours (LH)

| | | Cr | LH | | | Cr | |
|-----|-----|--|-----|--------|-----|--|---|
| CHM | 115 | Principles of Chem I | 4 | MTH | 201 | Calculus I | 4 |
| | 116 | Principles of Chem II | 5 | | 202 | Calculus II | 4 |
| | 221 | Survey of Analytical Chem | 4 | PHY | 220 | General Physics I | 5 |
| | 245 | Principles of Organic Chem I | 4 | | 221 | General Physics II | 5 |
| | 246 | Principles of Organic Chem I Lab | 1 | | 230 | Principles of Physics I | 5 |
| | 247 | Principles of Organic Chem II | 3 | | 231 | Principles of Physics II | 5 |
| | 248 | Principles of Organic Chem II Lab | 1 | BIO | 120 | General Biology I | 4 |
| | 273 | Principles of Inorganic Chem | 3 | | 121 | General Biology II | 4 |
| | 325 | Instrumental Analysis | 4 | 42 | 375 | Genetics | 3 |
| | 351 | Introduction to Phys Chem | 3 | | 376 | Genetics Lab | 1 |
| | 352 | Applied Phys Chem | 1 | GEO | 111 | Exploring the Earth | 4 |
| | 356 | Phys Chem I | 3 | PSY | 101 | Introductory Psychology | 3 |
| | 358 | Phys Chem II | 3 | | 301 | Child Development | 3 |
| | 391 | Chem Seminar I | 1 | EDF | 315 | Diverse Perspectives on Education | 3 |
| | 419 | Chem in Secondary Education | 3 | EDI | 337 | Intro to Learning and Assessment | 3 |
| | 421 | Green Chem For Sustainable Environment | 3 | EDS | 379 | Universal Design for Learning: Secondary | 3 |
| | 427 | Green and Environmental Chem Lab | 3 | 56 | | | |
| | 441 | Advanced Organic Chem | 3 | | | | |
| | 442 | Polymer Chem Green Indust Proc | 3 | | | | |
| | 447 | Advanced Organic Lab | 3 | 70 | | | |
| | 457 | Advanced Phys and Instrum Chem Lab | 3 | 56 | | | |
| | 461 | Biochemistry I | 4 | | | | |
| | 462 | Techniques in Biochemistry | 3 | 84 | | | |
| | 463 | Biochemistry II | 3 | | | | |
| | 471 | Advanced Inorganic Chem | 3 | | | | |
| | 475 | Electrochemistry | 3 | | | | |
| | 477 | Synthetic Inorganic Chem | 3 | 70 | | | |
| | 490 | Chem Laboratory Internship | 1-4 | varies | | | |
| | 491 | Chem Seminar II | 1 | | | | |
| | 499 | Investigation Problems | 1-5 | 42/cr | | | |