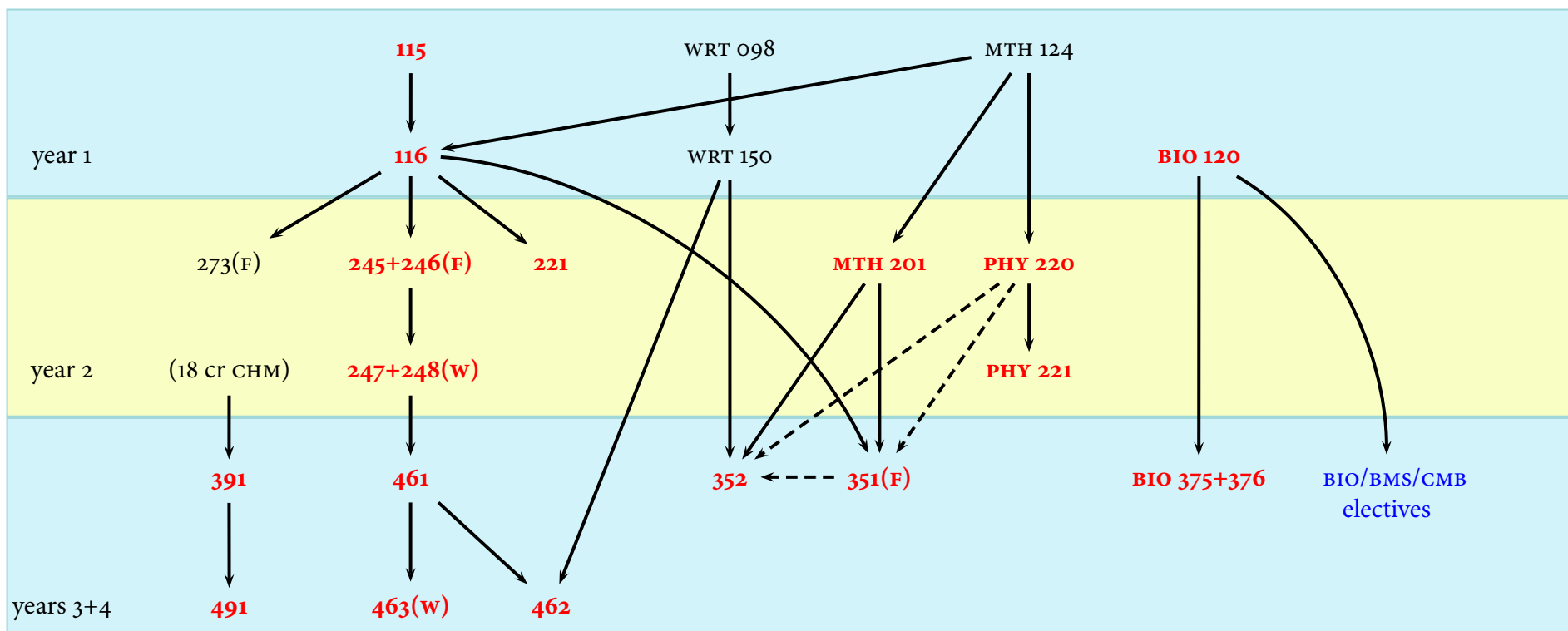


Prerequisite Structure
 Biochemistry Major
 Catalog years 2016 and later



- 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 must take 8 credits of **electives** from BIO 357, 416, 423, 432; BMS 212, 213, 290, 291, 306, 312, 313, 410, 422, 423, 431; CMB 405, 406, 411, 414, 426, 452. These courses may have prerequisites in addition to BIO 120.
- CHM 356+358 may substitute for CHM 351; this sequence additionally requires MTH 202 and PHY 230+231 in place of 220+221. See Chemistry major map for prerequisite structure. In this case CHM 352 may be taken concurrently with 358.
- Students seeking a degree certified to meet American Chemical Society guidelines must take CHM 273 plus additional CHM courses above the 200 level totaling at least 1 credit and 106 lab hours. 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			