

# M.S. in Biochemistry

If interested in any degree offering in the Department of Chemistry and Biochemistry, please review the department webpage: <http://www.chemistry.montana.edu/graduate/>.

The Master of Science (M.S.) Degree in Biochemistry requires a minimum of 30 credits and can include only those courses listed on an approved Program of Study. A student's Program of Study requires approval from the student's research advisor, committee members and department head. The M.S. degree can include creative scholarship and an accompanying thesis (Plan A) or be based solely on coursework (Plan B). A thesis M.S. requires that a student take at least 10 credits of BCH 590 (Master's Thesis). A coursework M.S. degree culminates with a professional paper or project and requires enrollment in BCH 575 (Professional Paper). In Plan B, at least 15 course credits on the student's MS program of study will need to come from BCH courses offered in the department. Graduate Classes outside of the department are permissible with approval from the student's advisor.

Nine credits at the 400-level are allowed. Additional information about both types of M.S. programs – coursework and thesis – is published on the Graduate School's Degree Requirements site: [https://www.montana.edu/gradschool/policy/degreq\\_masters.html](https://www.montana.edu/gradschool/policy/degreq_masters.html).

Acceptable courses on a program of study for Plans A and B - Student must consult with advisor. The department recognizes that certain courses outside of the department are available and acceptable alternatives to course listed below.

BCH 524	Mass Spectrometry	3
BCH 525	Metabolomics and Systems Biology	
BCH 526	Adv Protein NMR Spectroscopy	3
BCH 543	Proteins	3
BCH 544	Molecular Biology	3
BCH 545	Advanced Physical Biochemistry	3
BCH 546	Metabolomics and Systems Biology	3
BCH 547	Bioinorganic Chemistry	3
BCH 550	X-ray Crystallography	3
BCH 553	Protein Structure, Function, and Evolution	3
BCH 575	Professional Paper	1-6
BCH 591	Special Topics	3
BCH 592	Independent Study	1-3
BCH 594	Seminar	1
CHMY 501	Advanced Inorganic Chemistry	3
CHMY 513	Computational Chemistry	3
CHMY 515	Structure and Bonding in Inorganic Chemistry	3
CHMY 517	Synthetic Chemistry	3
CHMY 523	Organic Reaction Mechanisms	3
CHMY 524	Mass Spectrometry	3
CHMY 526	Solution NMR Spectroscopy;practical applications to the structural determination of small molecules	3
CHMY 533	Physical Organic Chemistry	3