

**Montana State University 2016-2017 Catalog**  
**POST BACCALAUREATE SEEKING LICENSURE: CHEMISTRY MAJOR**

GID -	Last Name	First Name	Initial	Date
Previous Names				
Local Address		City	State	Zip
Email			Phone	

ACADEMIC COURSES					Substitution Courses				
Subject	#	Course Title	Cr	Grade	Subject	#	Course Title	Cr	Grade
<b>TAKE ALL OF THE FOLLOWING</b>									
CHMY	311	Fundamental Analytical Chem	4						
CHMY	361	Elements of Physical Chemistry	4						
CHMY	362	Elements of Physical Chem. Lab	1						
CHMY	490R	Undergraduate Research	4						
CHMY	499	Senior Thesis/Capstone (opt)	1						
BCH	441	Biochem of Macromolecules	3						
M	151Q	Precalculus	4						
M	161Q	Survey of Calculus	4						
PHYX	205	College Physics I	4						
PHYX	207	College Physics II	4						
<b>TAKE ONE (1) OF THE FOLLOWING</b>									
CHMY	141	College Chemistry I	4						
CHMY	151	Honors General Chemistry I	4						
<b>TAKE ONE (1) OF THE FOLLOWING</b>									
CHMY	143	College Chemistry II	4						
CHMY	153	Honors General Chemistry II	4						
<b>TAKE ONE (1) OF THE FOLLOWING</b>									
BIOB	160	Principles of Living Systems	4						
BIOB	260	Cellular & Molecular Biology	4						
<b>TAKE ONE (1) OF THE FOLLOWING</b>									
CHMY	194	Seminar/Workshop	1						
BCH	194	Seminar/Workshop	1						
<b>TAKE ONE (1) OF THE FOLLOWING</b>									
CHMY	294	Seminar/Workshop	1						
BCH	294	Seminar/Workshop	1						
<b>TAKE ONE (1) OF THE FOLLOWING</b>									
CHMY	321	Organic Chemistry I	4						
CHMY	331	Honors Organic Chemistry I	4						

**POST BACCALAUREATE SEEKING LICENSURE: CHEMISTRY MAJOR Continued**

<i>Subject</i>	<i>#</i>	<i>Course Title</i>	<i>Cr</i>	<i>Grade</i>	<i>Subject</i>	<i>#</i>	<i>Course Title</i>	<i>Cr</i>	<i>Grade</i>
<b>TAKE ONE (1) OF THE FOLLOWING</b>									
CHMY	323	Organic Chemistry II	4						
CHMY	333	Honors Organic Chemistry II	4						
<b>TAKE ONE (1) OF THE FOLLOWING</b>									
CHMY	394	Seminar/Workshop	1						
BCH	394	Seminar/Workshop	1						
<b>TAKE ONE (1) OF THE FOLLOWING</b>									
CHMY	494	Seminar/Workshop	1						
BCH	494	Seminar/Workshop	1						
<b>TAKE NINE (9) CREDITS OF CHEMICAL &amp; BIOCHEMICAL ELECTIVE COURSES</b>									
CHMY	350	Astrobiology	3						
CHMY	401	Advanced Inorganic Chemistry	3						
CHMY	417	Synthetic Chemistry	3						
CHMY	421	Advanced Instrument Analysis	3						
BCH	442	Metabolic Regulation	3						
BCH	444R	Biochem & Molecular Bio	3						
<b>TAKE ONE OF THE FOLLOWING</b>									
FCS	101IS	Ind. & Family Dev.: Lifespan	3						
EDEC	160	Early Childhood - Adolescent	3						
<b>SECONDARY PROFESSIONAL PREPARATION</b>									
EDU	202	Early Field Experience	1						
EDU	223IS	Ed Psych & Adolescent Dev	3						
EDU	211D	Multicultural Education	3						
EDU	370	Integrating Technology into Ed	2						
EDU	382	Assessment, Curr and Inst	3						
EDU	497	Methods: 5-12 Science	3						
EDU	395	Practicum: 5-12	3						
EDU	495	Student Teaching: 5-12	12						
EDU	408	Professional Issues: 5-12	2						
EDSP	306	Exceptional Learners	3						

*ALL professional and content courses must have grades of "C" or above and have a 2.75 GPA in all areas.*

*PRAXIS II: The Praxis II exam should be taken prior to student teaching. It must be successfully completed in every major and minor prior to recommendation for licensure.*

STUDENT'S SIGNATURE	DATE
CONTENT AREA ADVISOR'S SIGNATURE	DATE
ADVISING CENTER DIRECTOR'S SIGNATURE	DATE