M.S. and Ph.D. in Chemistry; M.S. in Biochemistry; Ph.D. in Radiochemistry Learning Outcomes

Program	M.S. and Ph.D. in Chemistry; M.S. in Biochemistry; Ph.D. in Radiochemistry
Department(s)	Chemistry
College	Sciences

1. Student Learning Outcomes for the program. List the Student Learning Outcomes for the program. *Number for later reference.*

1. Technical Competency: Thesis Committees will assess the technical competency of student grades in program courses identified by each committee.

2. Communication Skills: Assessed by Thesis Committees and others who evaluate student performance on seminars, prospectus, oral and written reports, papers presented and/or submitted, and thesis.

3. Analytical and/or Critical Thinking Skills: Assessed by Thesis Committees and others who evaluate student performance on seminars, prospectus, oral and written reports, publication reviews, papers presented and/or submitted, and thesis.

4. Expertise: Thesis presentation, written and oral. Assessed by Thesis Committees.

2. Curriculum Alignment of Student Learning Outcomes. Where is the information covered in the courses required in the program? At what developmental stage is it covered (Beginning, Middle, or End)?

Student Learning Outcomes for the Program →

Courses in program (required & electives) ↓

Program Courses	1 (use #s from 1st page)	2	3	4						
	B, M									
CHEM 790	B	M								
CHEM 791		M	M							
CHEM 792		M	M							
CHEM 796		M	M							
CHEM 797		M	M							
CHEM 798	M	M	M							
CHEM 799	E	E	E	E						

B = Beginning, M = Middle, E = End

B = outcome introduced in beginning of development, such as in introductory course

M = outcome covered in middle stages of development

E = outcome fully developed at the end of career, such as in a capstone course