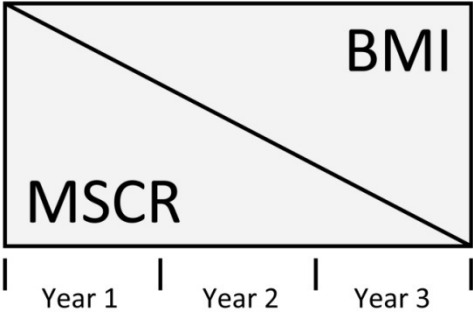


# Combined Master of Science in Clinical Research and Biomedical Informatics Fellowship Curriculum

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Introduction: This document describes the curriculum for the combined Master of Sciences in Clinical Research (MSCR) and Biomedical Informatics (BMI) Fellowship. The stand-alone MSCR Program is offered through the UNM Biomedical Research Education Program (BREP), and the BMI fellowship is offered through the UNM Health Sciences Library and Informatics Center. The combined curriculum is collaboration between the UNM BREP and HSLIC and represents a melding of the two individual curricula together. Upon successful completion of the combined program, the student will receive an MS degree in clinical research, a BMI fellowship certificate and a certificate from the Oregon Health and Sciences University Graduate Certificate Program in Biomedical Informatics.

Combined Curriculum Structure: The first year of the combined program is drawn primarily from the MSCR's curriculum (basic clinical research competencies) and then includes more BMI curriculum as the program progresses.



The following table lays out the coursework or other required training activities for the combined program by year:

Year:	Course:	Title:	Credits:
1/2/3		Participate as a faculty instructor in the SOM EBM curriculum (2 years)	P/F
1/2/3		Attend the HSLIC BioMISS conferences (all three years)	P/F
1		Health care USA : understanding its organization and delivery by Harry A. Sultz and Kristina M. Young	
1		Read "The Humane Interface" by Jef Raskin	P/F
1		Read "Revising Prose" by Richard Lanham	P/F
1	BIOM 556	Research Design in Clinical and Translational Research	1
1	BIOM 557	Measurement in Clinical and Translational Research	1
1	BIOM 558	Study Implementation in Clinical and Translational Research	1
1	BIOM 559	Biostatistics in Clinical and Translational Research	3
1	BIOM 560	Current and Emerging Technologies in Clinical and Translational Research	1
1	BIOM 561	Patient Outcomes in Clinical and Translational Research	1
1	BIOM 562	Epidemiology in Clinical and Translational Research	1
1	BIOM 563	Conducting Clinical and Translational Research within Health Care Systems	1
1	BIOM 564	Biomedical Informatics in Clinical and Translational Research	1
1	BIOM 565	Cultural Competence in Clinical and Translational Research	1
1	BIOM 566	Grantsmanship in Clinical and Translational Research	1
1	BIOM 567	Biomedical Ethics in Clinical and Translational Research	1
1	BIOM 568	Seminar in Clinical and Translational Research	2
1	BIOM	Level II MSCR Electives	~
		Attend the HSLIC BioMISS conferences (all three years)	P/F
2		Regional Seminars on Program Funding and Grants Administration	P/F
2	BMI 510	Introduction to Medical Informatics (OHSU Web Course)	3*
2	BMI 512	Clinical Systems (OHSU Web Course)	3*
2	BMI 514	Information Retrieval & Digital Libraries (OHSU Web Course)	3*
2	BMI 517	Organizational Behavior and Management (OHSU Web Course)	3*
2	BIOM 568	Seminar in Clinical and Translational Research	2
2	BIOM	Level II MSCR Electives	~
2	BIOM	Level III MSCR Electives	~
2		Author an HRRRC approved research protocol	P/F
2		Participate as a faculty reviewer on the UNM Medical School Research Committee (2 years)	P/F
2		Committee observation (e.g., hospital committees regarding electronic health record implementation, health science center committees regarding knowledge management and information technology)	P/F
2/3	BIOM	Level II MSCR Electives	~
2/3	BIOM	Level III MSCR Electives	~
2/3	BMI 570	Scientific Writing and Communication for Informatics Students (OHSU Web Course)	2*
2/3	BMI 560	Design and Evaluation in Health Informatics	3*
2/3	BMI Elect	(OHSU Elective Course 1)	*
2/3	BMI Elect	(OHSU Elective Course 2)	*
3	BOM 599	Thesis Preparation for Defense	6
3		Participate as a faculty instructor in the SOM EBM curriculum (years 2 & 3)	P/F
3		Participate as a faculty reviewer on the UNM Medical School Research Committee (years 2 & 3)	P/F
3		Completion of a manuscript acceptable for publication in a peer reviewed journal reporting results of the student's mentored research project	P/F
3		Attend the AMIA tutorial on Ontologies at the November Annual Meeting	P/F
3		Attend the AMIA tutorial on Standardized Terminologies at the November Annual Meeting	P/F
3		Complete tutorial on HL-7 at HL-7 Conference	P/F
3		Attend the HSLIC BioMISS conferences (all three years)	P/F
3		Committee observation (e.g., hospital committees regarding electronic health record implementation, health science center committees regarding knowledge management and information technology)	P/F

\*These credit hours are in the OHSU Graduate Certificate Program in Biomedical Informatics. Six of these credits are applied toward the 12 total elective credits (level 2 or higher) required for the MSCR. The OHSU elective courses in BMI should be chosen in consultation with the student's advisor and should be based on current competency, skills needed for the student's thesis/research project and the student's future research interests. This link takes you to a complete list of OHSU elective courses: <http://www.ohsu.edu/xd/education/schools/school-of-medicine/departments/clinical-departments/dmice/current-students/student-resources/course-catalog.cfm>.

~A total of 10 level II and level III MSCR elective credits must be taken. Selection of these should be conducted in consultation the student's advisor and should be based on current competency, skills needed for the student's thesis/research project and the student's future research interests. Information about the MSCR program is available here: <http://hsc.unm.edu/research/brep/graduate/mscr/index.html>