



Master of Science in Biomedical Engineering  
 Shared Credit Program with B.S.C.H.E.  
 Biomedical Engineering Graduate Program

Please use the following worksheet to plan out what courses you will be taking each semester to apply to your MS degree. Your planned courses must add up to 30 hours total.

Name: \_\_\_\_\_ UNM ID #: \_\_\_\_\_ Graduation Date: \_\_\_\_\_

Shared Credit Courses (Fulfills Requirements for Both BS & MS Degrees)					
Semester/Year	Course	Title	Hours	Grade	UG Degree Requirement
FA	CBE 586	Introduction to Statistics and Design of Experiments	3		CBE 486
			3		Technical Elective
			3		Technical Elective
Acknowledgement					
By initialing this document, I understand that in order to make any changes to the planned shared credit courses above, I must gain the written approval from a CBE academic advisor. If I do not obtain approval, a course substitution is not guaranteed to count toward my degree.					
Student Initials: _____ Date: _____					

Master of Science in Biomedical Engineering - 30 hrs

Required Core Courses					
Semester/Year	Course	Title	Hours	Grade	Used as Shared Credit?
	BME 547	BME Research Practices	3		
	BME 558	Methods of Analysis	3		
	BME 567	Biomedical Engineering Seminar*	1		

Biomedical Engineering Electives					
Semester/Year	Course	Title	Hours	Grade	Used as Shared Credit?
	BME 517	Applied Biology for Biomedical Engineers	3		
	BME 518	Introduction to Bioinformatics	3		
	BME 544	Thermodynamics of Biological Systems	3		
	BME 556	Protein and Nucleic Acid Engineering	3		
	BME 568	Computational Modeling for Bioengineering	3		
	BME 572	Biomaterials Engineering	3		
	BME 579	Tissue Engineering	3		
	BME 581	Colloidal Nanocrystals for Biomedical Applications	3		
	BME 598	Special Topics	1-3		

Additional Electives					
Semester/Year	Course	Title	Hours	Grade	Notes
	BIOM 507	Advanced Molecular Biology	4		
	BIOM 510	Physiology	3		
	BIOM 515	Cancer Biology	3		
	CBE 512	Characterization Methods for Nanostructures	3		
	CBE 515	Special Topics	1-3		
	CBE 521	Advanced Transport Phenomena I	3		
	CBE 530	Surface and Interfacial Phenomena	3		
	CBE 551	Problems**	1-3		

	CBE 561	Kinetics of Chemical Processes	3		
	CBE 586	Introduction to Statistics and Design of Experiments***	3		
	CS 521	Data Mining Techniques	3		
	CS 527	Principles of Artificially Intelligent Machines	3		
	CS 529	Introduction to Machine Learning	3		
	CS 530	Geometric and Probabilistic Methods in Computer Science	3		
	CS 561	Algorithms/Data Structure	3		
	CS 564	Introduction to Database Management	3		
	CS 567	Principles and Applications of Big Data	3		

Other Electives					
Not listed above					
Semester/Year	Course	Title	Hours	Grade	Notes
Total Hours toward MS****					

Refer to course catalog to plan which semester you will take the courses listed above

\*Up to 4 credits of this seminar may be applied to the MS degree

\*\*Problems credits may be taken in units of 1, 2, or 3 credits per semester. Maximum of 3 problem credits for this program

\*\*\*Undergraduates from CBE must take the 586 version of CBE 486/586 to receive graduate credit for this course

\*\*\*\*Minimum total credits for Plan III (coursework only) MS degree is 30

Comments/Notes	
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