

**Yale School of Public Health**  
**Master of Science in Health Informatics**  
*Curriculum (2019-2020 Matriculation)*

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 The M.S. degree requires a total of 14 course units. The M.S. in Health Informatics requires the student to complete or acquire an exemption from the following courses. Full time students must carry a minimum of 4 course units each semester. If a course is waived, a substitute course must be identified.

Course	Title	Units	Term Offered	Term Taken	Notes
<b>MS Required Courses (10 course units)</b>					
BIS 633	Population and Public Health Informatics	1	Fall		Yr1
BIS 634	Computational Methods for Informatics	1	Fall		Yr1
CBB 740	Clinical and Translational Informatics	1	Fall		Yr1
CBB 750	Core Topics in Biomedical Informatics	1	Spring		Yr1
EPH 508	Foundations of Epidemiology and Public Health	1	Fall		Yr1
EPH 608	Frontiers of Public Health *	1	Fall or Spring		Yr1 (Offered both terms - only need to take 1 term)
BIS TBD	Clinical Database Management Systems	1	Fall		Yr2
BIS TBD	Clinical Decision Support	1	Spring		Yr2
EPH 600	Research Ethics and Responsibilities	0	Fall		Yr 1
BIS TBD	Capstone I and II	2	Fall & Spring		Yr2 Must take both terms
<b>MS Electives in Informatics, Statistics and Data Science (4 course units)</b>					
<i>Four of the following:</i>					
S&DS 565	Applied Data Mining and Machine Learning	1	Fall and Spring		
BIS 540	Fundamentals of Clinical Trials	1	Fall		
BIS 557	Computational Statistics	1	Fall		
BIS 623	Advanced Regression Models	1	Fall		
BIS 625	Categorical Data Analysis	1	Spring		
BIS 643	Theory of survival Analysis	1	Spring		
BIS 679	Advanced Statistical Programming in SAS and R	1	Fall		
CB&B 645	Statistical Methods in Computational Biology	1	Spring		
CPSC 477	Natural Language Processing	1	Spring		
EMD 533	Implementation Science	1	Fall		
EPH 510	Health Policy and Health Care Systems	1	Fall		
HPM 560	Health Economics and U.S. Health Policy	1	Spring		
HPM 570	Cost-Effectiveness Analysis and Decision-Making	1	Fall		
IMED 625	Principles of Clinical Research	1	Fall		
NURS 922	Introduction to Clinical Research Informatics	1	Fall		
MGT 534	Personal Leadership: Leading the Self Before Others	1	Fall and Spring		
MGT 656	Managing Software Development	1	Fall		

\*Students entering the program with an MPH or relevant graduate degree may be exempt from this requirement.