

Comp #	Competency	Course	Course Work/ Exam	Written Comps	Thesis Committee Review	School Preliminary Orals	Working Groups	Mentoring	Seminars	Professional Meetings	Thesis	Public Thesis Presentation/Defense	Non-Thesis Research	Research Assistantship	Teaching Assistantship	Annual Teaching Assistantship Workshop	Primary or Reinforcing?
PhD_Biostat_1	Identify the development of human health across the lifespan; the major root and proximate cause of morbidity and mortality; and the most effective strategies for promoting health and preventing disease and disability in a population		X		X						X		X	X			
PhD_Biostat_1	Identify the development of human health across the lifespan; the major root and proximate cause of morbidity and mortality; and the most effective strategies for promoting health and preventing disease and disability in a population	260.600															P
PhD_Biostat_1	Identify the development of human health across the lifespan; the major root and proximate cause of morbidity and mortality; and the most effective strategies for promoting health and preventing disease and disability in a population	550.865															P

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PhD_Biostat_2	Identify the scientific methods used in public health research and practice		X	X	X	X	X	X	X	X	X	X	X	X			
PhD_Biostat_2	Identify the scientific methods used in public health research and practice	260.600															R
PhD_Biostat_2	Identify the scientific methods used in public health research and practice	340.601															P
PhD_Biostat_2	Identify the scientific methods used in public health research and practice	550.865															P
PhD_Biostat_3	Acquire knowledge and skills in research methodologies to collaborate with substantive investigators		X	X	X	X	X	X	X	X	X	X	X	X			
PhD_Biostat_3	Acquire knowledge and skills in research methodologies to collaborate with substantive investigators	140.751															P
PhD_Biostat_3	Acquire knowledge and skills in research methodologies to collaborate with substantive investigators	140.752															P

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PhD_Biostat_3	Acquire knowledge and skills in research methodologies to collaborate with substantive investigators	140.753															P
PhD_Biostat_3	Acquire knowledge and skills in research methodologies to collaborate with substantive investigators	140.754															P
PhD_Biostat_3	Acquire knowledge and skills in research methodologies to collaborate with substantive investigators	260.600															R
PhD_Biostat_3	Acquire knowledge and skills in research methodologies to collaborate with substantive investigators	550.860															R
PhD_Biostat_3	Acquire knowledge and skills in research methodologies to collaborate with substantive investigators	550.600															P
PhD_Biostat_3	Acquire knowledge and skills in research methodologies to collaborate with substantive investigators	340.601															P

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PhD_Biostat_4	Communicate effectively with public health experts, relying upon a basic understanding of human health and disease		X	X	X	X	X	X	X	X	X	X	X	X			
PhD_Biostat_4	Communicate effectively with public health experts, relying upon a basic understanding of human health and disease	140.751															R
PhD_Biostat_4	Communicate effectively with public health experts, relying upon a basic understanding of human health and disease	140.752															R
PhD_Biostat_4	Communicate effectively with public health experts, relying upon a basic understanding of human health and disease	140.753															R
PhD_Biostat_4	Communicate effectively with public health experts, relying upon a basic understanding of human health and disease	140.754															R

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PhD_Biostat_4	Communicate effectively with public health experts, relying upon a basic understanding of human health and disease	260.600															P
PhD_Biostat_4	Communicate effectively with public health experts, relying upon a basic understanding of human health and disease	550.865															P
PhD_Biostat_4	Communicate effectively with public health experts, relying upon a basic understanding of human health and disease	340.601															P
PhD_Biostat_5	Choose a study design to address a public health question		X	X			X	X	X		X		X	X			
PhD_Biostat_5	Choose a study design to address a public health question	140.751															P
PhD_Biostat_5	Choose a study design to address a public health question	140.752															P
PhD_Biostat_5	Choose a study design to address a public health question	140.753															P

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PhD_Biostat_5	Choose a study design to address a public health question	140.754															P
PhD_Biostat_5	Choose a study design to address a public health question	260.600															R
PhD_Biostat_5	Choose a study design to address a public health question	550.860															R
PhD_Biostat_5	Choose a study design to address a public health question	550.600															R
PhD_Biostat_5	Choose a study design to address a public health question	340.601															P
PhD_Biostat_5	Choose a study design to address a public health question	140.642															R
PhD_Biostat_5	Choose a study design to address a public health question	140.665															R
PhD_Biostat_5	Choose a study design to address a public health question	550.865															R
PhD_Biostat_6	Ensure the quality and security of information used in a statistical study		X					X		X			X	X			
PhD_Biostat_6	Ensure the quality and security of information used in a statistical study	140.776															P

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PhD_Biostat_6	Ensure the quality and security of information used in a statistical study	140.778															P
PhD_Biostat_6	Ensure the quality and security of information used in a statistical study	140.630															R
PhD_Biostat_6	Ensure the quality and security of information used in a statistical study	550.860															P
PhD_Biostat_6	Ensure the quality and security of information used in a statistical study	550.600															P
PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.		X	X	X	X	X	X	X	X	X	X	X	X			

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PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.751															P
PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.752															P

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PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.753															P
PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.754															P

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PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	260.600															R
PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	340.601															R

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PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.664															R
PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.665															R

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PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.641															R
PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.655															R

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PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.656															R
PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	330.657															R

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PhD_Biostat_7	For a particular data set: 1) choose and justify an appropriate statistical model to address a public health question; 2) implement and correctly interpret the results of the analysis, documenting the analysis and results in a reproducible way; and 3) present orally and in writing a summary of the study, results, and interpretations.	140.658															R
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology		X		X	X	X	X	X	X	X	X		X			
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.751															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.752															P

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PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.753															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.754															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.721															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.722															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.723															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.724															P

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PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.731															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.732															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.733															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.734															P
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.771															R
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.772															R

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PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.773															R
PhD_Biostat_8	Critically review and interpret the statistical literature relevant to a particular methodology	140.774															R
PhD_Biostat_9	Identify important methodologic problems through participation in collaborative research, and formulate methodologic questions so that improved theory and/or methods can be derived		X	X	X	X	X	X	X	X	X	X	X	X			
PhD_Biostat_9	Identify important methodologic problems through participation in collaborative research, and formulate these so that improved theory and/or methods can be derived	140.751															P

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PhD_Biostat_9	Identify important methodologic problems through participation in collaborative research, and formulate these so that improved theory and/or methods can be derived	140.752															P
PhD_Biostat_9	Identify important methodologic problems through participation in collaborative research, and formulate these so that improved theory and/or methods can be derived	140.753															P
PhD_Biostat_9	Identify important methodologic problems through participation in collaborative research, and formulate methodologic questions so that improved theory and/or methods can be derived	140.754															P

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PhD_Biostat_9	Identify important methodologic problems through participation in collaborative research, and formulate methodologic questions so that improved theory and/or methods can be derived	260.600															R
PhD_Biostat_9	Identify important methodologic problems through participation in collaborative research, and formulate methodologic questions so that improved theory and/or methods can be derived	550.860															R
PhD_Biostat_9	Identify important methodologic problems through participation in collaborative research, and formulate methodologic questions so that improved theory and/or methods can be derived	550.600															R

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PhD_Biostat_9	Identify important methodologic problems through participation in collaborative research, and formulate methodologic questions so that improved theory and/or methods can be derived	340.601															R
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools		X					X			X						
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	110.405 (through the Dept of Mathematics, JHU Krieger School of Arts & Sciences)															R
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.721															P

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PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.722															P
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.723															P
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.724															P
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.731															P
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.732															P
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.733															P

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PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.734															P
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.771															R
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.772															R
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.773															R
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.774															R
PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.776															P

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PhD_Biostat_10	Determine the statistical properties of new methods using mathematical and computer tools	140.778															P
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods		X		X	X		X			X	X	X	X			
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.751															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.752															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.753															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.754															R

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PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.721															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.722															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.723															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.724															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.731															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.732															R

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PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.733															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.734															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.771															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.772															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.773															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	140.774															R

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PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	550.860															R
PhD_Biostat_11	Write and publish peer-reviewed articles that effectively communicate new theory and methods	550.600															R
PhD_Biostat_12	Clearly present biostatistical research findings in a research seminar format				X	X	X	X	X	X		X		X			
PhD_Biostat_13	Apply innovative statistical theory and methods to the solution of public health problems		X		X	X	X	X	X	X	X	X		X			
PhD_Biostat_13	Apply innovative statistical theory and methods to the solution of public health problems	140.751															R
PhD_Biostat_13	Apply innovative statistical theory and methods to the solution of public health problems	140.752															R

Primary = The course learning opportunities and assessments introduce knowledge and skills necessary for achieving the competency

Reinforcing = The course learning opportunities and assessments reinforce knowledge and skills necessary for achieving the competency

Comp #	Competency	Course	Course Work/ Exam	Written Comps	Thesis Committee Review	School Preliminary Orals	Working Groups	Mentoring	Seminars	Professional Meetings	Thesis	Public Thesis Presentation/Defense	Non-Thesis Research	Research Assistantship	Teaching Assistantship	Annual Teaching Assistantship Workshop	Primary or Reinforcing?
PhD_Biostat_13	Apply innovative statistical theory and methods to the solution of public health problems	140.753															R
PhD_Biostat_13	Apply innovative statistical theory and methods to the solution of public health problems	140.754															R
PhD_Biostat_14	Identify statistical skills needed by a group of students		X					X							X	X	
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.721															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.722															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.723															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.724															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.731															R

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PhD_Biostat_14	Identify statistical skills needed by a group of students	140.732															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.733															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.734															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.751															P
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.752															P
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.753															P
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.754															P
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.771															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.772															R

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PhD_Biostat_14	Identify statistical skills needed by a group of students	140.773															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	140.774															R
PhD_Biostat_14	Identify statistical skills needed by a group of students	300.750															P
PhD_Biostat_14	Identify statistical skills needed by a group of students	Non-credit workshops offered by the School of Public Health's Center for Teaching & Learning															P
PhD_Biostat_15	Communicate to students the importance and utility of the course material and your own appreciation of it		X		X										X	X	

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PhD_Biostat_15	Communicate to students the importance and utility of the course material and your own appreciation of it	300.750															P
PhD_Biostat_15	Communicate to students the importance and utility of the course material and your own appreciation of it	Non-credit workshops offered by the School of Public Health's Center for Teaching & Learning															P
PhD_Biostat_16	Communicate clearly and effectively in lectures and in written materials		X		X	X		X	X	X	X	X			X	X	
PhD_Biostat_16	Communicate clearly and effectively in lectures and in written materials	140.751															R
PhD_Biostat_16	Communicate clearly and effectively in lectures and in written materials	140.752															R
PhD_Biostat_16	Communicate clearly and effectively in lectures and in written materials	140.753															R

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PhD_Biostat_16	Communicate clearly and effectively in lectures and in written materials	140.754															R
PhD_Biostat_16	Communicate clearly and effectively in lectures and in written materials	340.601															R
PhD_Biostat_16	Communicate clearly and effectively in lectures and in written materials	300.750															P
PhD_Biostat_16	Communicate clearly and effectively in lectures and in written materials	Non-credit workshops offered by the School of Public Health's Center for Teaching & Learning															P

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