**Ph.D. in Public Health Sciences**

**Biostatistics Concentration**

**Individualized Program of Study (*IPS)***

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| Student: Miao Cai | | Date: | | | |
| **Email: miao.cai@slu.edu** | | **Banner ID #: 966596** | | | |
| **Mentor: Steve Rigdon** | | **Address:** | | | |
| **Semester Program Began: Fall 2017** | | **Phone:** | | | |
| **Date of Written Examination: 1/14/2019** | | **Request for Advance Standing? Yes** | | | |
| **Date of Oral Examination: 10/07/2019** | | **Date of Dissertation Defense** | | | |
| **General Petition for Curricular Changes?** | | **Date of Publication on ProQuest:** | | | |
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| **Doctoral Course Series** | *Must be taken by all doctoral students prior to written exams; cannot be taken until student has fulfilled requirements for a master’s degree* [18 credits] | | **Credits** | **Semester** | Taken **17** |
| PHS 6050 | Science, Theory and Public Health | | **3** | F Yr 1 | FL 2017-YES |
| BST 5100 | Introduction to General Linear Modeling | | **3** | F Yr 1 | FL 2017-YES |
| PHS 6040 | Applied Research Skills I: Primary Data Collection | | **3** | SP Yr 1 | SP 2018-YES |
| PHS 6010/516.505 | Design and Analysis in Public Health (Sub with Huazhong “Social Science Research Methods and Design”) | | **2** | Sp Yr 1 | Adv. Standing |
| 516.510 | Sub with Huazhong-516.510 “Pharmaceutical Policy Analysis” | | **1** |  | Adv. Standing |
| PHS 6900\* | Professional Development | | **3** | Any\* | 2nd year + CTTL |
| PHS 6060 | Applied Research Skills II: Grantwriting | | **3** | F Yr 2 | FL 2018 - YES |
| **Methods Core** | *Determined by department. Some may be required of all students, some determined by mentor and some transferred into program.* [15 credits] | |  |  |  |
| BST 5020 | Theory of Biostatistics | | **3** | F Yr 1 | FL 2017-YES |
| BST 5030/516.503 | Statistical Programming and Study Planning: SAS  (Sub with Huazhong “Health Econometric Analysis”) | | **2** | SP Yr 1 | Adv. Standing |
| 516.518 | Sub with Huazhong “Improving Health Service Quality” | | **1** |  | Adv. Standing |
| BST 5400/516.501 | Applied Data Management (Sub with Huazhong “Econometric Analysis in Mgmt) | | **2** | F | Adv. Standing |
| 516.514 | Sub with Huazhong “Hospital Financial Management” | | **1** |  | Adv. Standing |
| EPI 5000 | Principles of Epidemiology (sub SOC5670 Spatial Demography) | | **3** | F or SP | Sub? |
| EPI 5020 | Epidemiology Methods II | | **3** | SP | Spring 2018-YES |
| **Concentration Courses** | *Determined determined by mentor and if any waived, students must substitute to ensure 60 credit hours. .* [9 credits] | |  |  |  |
| BST 5210 | Categorical Data Analysis | | **3** | F | FL 2018-YES |
| BST 5200 | Survival Data Analysis | | **3** | F | FL 2018-YES |
| BST 5220 | Multilevel and Longitudinal Data Analysis | | **3** | SP | SP 2019-YES |
| **Written Examination (January 2019 passed)** | | | | | |
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| **Elective Courses** | *To be determined by the student and mentor based on the needs for the overall plan of study* [18 credits] | |  |  | **12 SLU; 7 Adv. Standing** |
| \*\*BST 5230 | Bayesian statistics | | **3** |  | SP 2018 - YES |
| \*\*BST 5025 | Theory of Biostatistics II | | **3** |  | SP 2018 - YES |
| \*\*BST 5420 | Sampling Theory and Survey Design in Public Health | | **3** |  | SP 2019 - YES |
| \*\*BST 5920 | Data Visualization | | **3** |  | FL 2018 - YES |
| HDS5230 | High Performance Computing | | **3** |  | SP 2019 - YES |
| Huazhong-516.519 | Hospital Governance Reform and Development | | **1** |  | Adv. Standing |
| Huazhong-516.504 | Public Policy Analysis | | **2** |  | Adv. Standing |

Note: \*\*12 of 18 credit hours must be taken from biostatistics courses.

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| **Request for Advance Standing must be submitted and approved BEFORE Oral Examination is Scheduled** | | | | |
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| **Oral Examination (Semester *planned: September 2019*\_)** | | | | |
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| Dissertation Hours | *Students cannot register for dissertation research until they have passed their written exam and concurrent with the semester they are taking their oral exam.* [12 credits] |  |  |  |
| PHS 6990 | Dissertation Research | **3** |  |  |
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|  | **Total Degree Hours** | **72** |  |  |

***A prerequisite for the program is a successfully completed graduate level introductory statistics course that has been taken in the past 5 years*.**

\*Professional Development will be offered in the Fall and Spring semesters. Students must enroll in the course for a total of three credits for either 3 semesters at 1 credit or 2 semesters at 1 credit and the 3rd credit awarded after successful completion of the [CTS (Certificate in Teaching Skills](http://www.slu.edu/cttl/programs-and-services/certificate-program/certificate-in-university-teaching-skills)) via the Reinhart Center (academic year long) Students are encouraged to enroll in Professional Development beginning in the Spring semester of their first year. If students would like to be considered for GTA funding in their 2nd or 3rd year, they should take the CUTS certificate their first year.

\*\* Elective courses should be discussed with and approved by mentor, including, but not limited to: BST 5960 Capstone in Biostatistics, PSY 6600 Structural Equations Modeling, ORES 5420 Clinical Trials Design and Analysis, ORES 5430 Outcomes Measurement, and ORES 5400 Pharmacoeconomics.

**Any deviation from this plan will likely result in extending the length to degree completion. Failure to do so places you in jeopardy.**