**Professional Science Master's in Biomedical and Health Informatics**

**Curriculum**

<table>
<thead>
<tr>
<th>General Informatics Core – 12 hours required</th>
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<tbody>
<tr>
<td>* INLS 523 Database Systems I: Introduction to Databases 3</td>
</tr>
<tr>
<td>* INLS 582 Systems Analysis and Design 3</td>
</tr>
<tr>
<td>INLS 541 Information Visualization 3</td>
</tr>
<tr>
<td>INLS 560 Programming for Information Professionals 3</td>
</tr>
<tr>
<td>INLS 572 Web Development 1.5</td>
</tr>
<tr>
<td>INLS 573 Mobile Web Development 1.5</td>
</tr>
<tr>
<td>INLS 623 Database Systems II: Intermediate Databases 3</td>
</tr>
<tr>
<td>INLS 690-224 Visual Analytics 3</td>
</tr>
<tr>
<td>INLS 718 User Interface Design 3</td>
</tr>
<tr>
<td>INLS 760 Web Databases 3</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Business Skills Courses – 6 hours from the following or approved alternatives</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRAD 710 Professional Communication: Writing 1.5</td>
</tr>
<tr>
<td>GRAD 711 Professional Communication: Presenting 1.5</td>
</tr>
<tr>
<td>GRAD 712 Leadership in Science Based Organizations 1</td>
</tr>
<tr>
<td>GRAD 713 Applied Project Management; Frameworks, Principles and Techniques 1.5</td>
</tr>
<tr>
<td>GRAD 714 Introduction to Financial Accounting 1.5</td>
</tr>
<tr>
<td>GRAD 715 Building your Leadership Practice 0.5</td>
</tr>
<tr>
<td>GRAD 720 Team-based Consulting for Technology Commercialization 3</td>
</tr>
<tr>
<td>GRAD 725 Professional Science Master’s seminar series 1</td>
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</tbody>
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<table>
<thead>
<tr>
<th>BMHI Foundations – 6 hours required</th>
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<tbody>
<tr>
<td>* INLS 725 Electronic Health Records 3</td>
</tr>
<tr>
<td>* HPM 600 Introduction to Health Policy and Management 3</td>
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<th>BMHI Foundations – 6 hours required</th>
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<tbody>
<tr>
<td>* NURS 870 Health Care Informatics 3</td>
</tr>
<tr>
<td>* INLS 770 Health Informatics Seminar 1</td>
</tr>
<tr>
<td>INLS 515 Consumer Health Informatics 3</td>
</tr>
<tr>
<td>NURS 874 Improving Quality, Safety, and Outcomes in Healthcare Systems 3</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Clinical Informatics Track Courses – 8 credits total</th>
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<tbody>
<tr>
<td>* HPM 620 Implementing Health Informatics Initiatives 3</td>
</tr>
<tr>
<td>* EPID 795 Introduction to Public Health Informatics 1</td>
</tr>
<tr>
<td>* INLS 770 Health Informatics Seminar 1</td>
</tr>
<tr>
<td>EPID 766 Epidemiologic Research with Healthcare Databases 3</td>
</tr>
<tr>
<td>EPID 750 Fundamentals of Public Health Surveillance 3</td>
</tr>
<tr>
<td>HPM 625 Applied Public Health Informatics 3</td>
</tr>
<tr>
<td>HPM 760 Healthcare Quality and Information Management 3</td>
</tr>
<tr>
<td>ENVR 468 Advanced Functions of temporal GIS 3</td>
</tr>
<tr>
<td>BIOS 613 Data Management in Clinical and Public Health Research 3</td>
</tr>
<tr>
<td>BIOS 511 Introduction To Statistical Computing And Data Management 4</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Public Health Informatics Track Courses – 8 credits total</th>
</tr>
</thead>
<tbody>
<tr>
<td>* HPM 620 Implementing Health Informatics Initiatives 3</td>
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<tr>
<td>* EPID 795 Introduction to Public Health Informatics 1</td>
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<td>* INLS 770 Health Informatics Seminar 1</td>
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<td>EPID 766 Epidemiologic Research with Healthcare Databases 3</td>
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<tr>
<td>HPM 625 Applied Public Health Informatics 3</td>
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<tr>
<td>HPM 760 Healthcare Quality and Information Management 3</td>
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<tr>
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<tr>
<td>BIOS 511 Introduction To Statistical Computing And Data Management 4</td>
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<table>
<thead>
<tr>
<th>Practicum - 3 credit hours</th>
</tr>
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<tbody>
<tr>
<td>* GRAD 989 Practicum 3</td>
</tr>
</tbody>
</table>

* Required
Professional Science Master's in Biomedical and Health Informatics

Suggested Course Sequence

Public Health Informatics Track

**Fall Start**

**Regular Track**

**Fall:** (11 credits)
- INLS 523 – Database Systems I (3)
- Core Elective (3)
- GRAD 725 – PSM Seminar Series (1)
- GRAD 710 – Professional Communication: Writing (1.5)
- GRAD 711 – Professional Communication: Presenting (1.5)
- INLS 770 – Health Informatics Seminar (1)

**Spring:** (12 credits)
- GRAD 713 – Applied Project Management (1.5)
- GRAD 714 – Intro to Financial Accounting (1.5)
- HPM 620 – Implementing Health Informatics Initiatives (3)
- INLS 725 – Electronic Health Records (3)
- INLS 582 – Systems Analysis and Design (3)

**Summer:** (1 credit)
- GRAD 989 – Practicum (1)

**Fall:** (13 credits)
- GRAD 989 – Practicum (2)
- HPM 600 – Intro to Health Policy and Management (3)
- Public Health Informatics Elective (3)
- GRAD 725 – PSM Seminar Series (1)
- Core Elective (3)
- EPID 795 – Intro to Public Health Informatics (1)

**Fast Track**

**Fall:** (14 credits)
- INLS 523 – Database Systems I (3)
- Core Elective (3)
- GRAD 725 – PSM Seminar Series (1)
- GRAD 710 – Professional Communication: Writing (1.5)
- GRAD 711 – Professional Communication: Presenting (1.5)
- INLS 582 – Systems Analysis and Design (3)
- EPID 795 – Intro to Public Health Informatics (1)

**Spring:** (14 credits)
- GRAD 713 – Applied Project Management (1.5)
- GRAD 714 – Intro to Financial Accounting (1.5)
- HPM 620 – Implementing Health Informatics Initiatives (3)
- Public Health Track Elective (3)
- GRAD 725 – PSM Seminar Series (1)
- INLS 770 – Health Informatics Seminar (1)
- Core Elective (3)

**Summer:** (9 credit)
- GRAD 989 – Practicum (3)
- HPM 600 – Intro to Health Policy and Management (3)
- INLS 725 – Electronic Health Records (3)
Professional Science Master's in Biomedical and Health Informatics

Suggested Course Sequence

Public Health Informatics Track

**Spring Start**

**Regular Track**

**Spring: (13 credits)**
- INLS 523 – Database Systems I (3)
- INLS 582 – Systems Analysis and Design (3)
- GRAD 725 – PSM Seminar Series (1)
- GRAD 713 – Applied Project Management (1.5)
- GRAD 714 – Intro to Financial Accounting (1.5)
- Core Elective (3)

**Summer: (6 credits)**
- HPM 600 – Intro to Health Policy and Management (3)
- INLS 725 – Electronic Health Records (3)

**Fall: (8 credits)**
- GRAD 710 – Professional Communication: Writing (1.5)
- GRAD 711 – Professional Communication: Presenting (1.5)
- EPID 795 – Intro to Public Health Informatics (1)
- GRAD 989 – Practicum (1)
- Core Elective (3)

**Spring: (10 credits)**
- INLS 770 – Health Informatics Seminar (1)
- HPM 620 – Implementing Health Informatics Initiatives (3)
- Public Health Informatics Elective (3)
- GRAD 725 – PSM Seminar Series (1)
- GRAD 989 – Practicum (2)

**Fast Track**

**Spring: (14 credits)**
- INLS 523 – Database Systems I (3)
- INLS 582 – Systems Analysis and Design (3)
- GRAD 725 – PSM Seminar Series (1)
- GRAD 713 – Applied Project Management (1.5)
- GRAD 714 – Intro to Financial Accounting (1.5)
- INLS 770 – Health Informatics Seminar (1)
- HPM 620 – Implementing Health Informatics Initiatives (3)

**Summer: (10 credits)**
- HPM 600 – Intro to Health Policy and Management (3)
- INLS 725 – Electronic Health Records (3)
- Core Elective (3)
- GRAD 989 – Practicum (1)

**Fall: (13 credits)**
- GRAD 710 – Professional Communication: Writing (1.5)
- GRAD 711 – Professional Communication: Presenting (1.5)
- EPID 795 – Intro to Public Health Informatics (1)
- GRAD 989 – Practicum (2)
- Core Elective (3)
- GRAD 725 – PSM Seminar Series (1)
- Public Health Informatics Elective (3)
Professional Science Master's in Biomedical and Health Informatics

Suggested Course Sequence

Public Health Informatics Track

Summer Start

Regular Track

Summer: (6 credits)
INLS 725 – Electronic Health Records (3)
HPM 600 – Intro to Health Policy and Management (3)

Fall: (12 credits)
INLS 523 – Database Systems I (3)
INLS 770 – Health Informatics Seminar (1)
GRAD 725 – PSM Seminar Series (1)
GRAD 710 – Professional Communication: Writing (1.5)
GRAD 711 – Professional Communication: Presenting (1.5)
EPID 795 – Intro to Public Health Informatics (1)
Core Elective (3)

Spring: (13 credits)
HPM 620 – Implementing Health Informatics Initiatives (3)
Public Health Track Elective (3)
GRAD 725 – PSM Seminar Series (1)
GRAD 713 – Applied Project Management (1.5)
GRAD 714 – Intro to Financial Accounting (1.5)
INLS 582 – Systems Analysis and Design (3)

Fast Track

Summer: (9 credits)
INLS 725 – Electronic Health Records (3)
HPM 600 – Intro to Health Policy and Management (3)
Core Elective (3)

Fall: (15 credits)
INLS 523 – Database Systems I (3)
INLS 770 – Health Informatics Seminar (1)
GRAD 725 – PSM Seminar Series (1)
GRAD 710 – Professional Communication: Writing (1.5)
GRAD 711 – Professional Communication: Presenting (1.5)
EPID 795 – Intro to Public Health Informatics (1)
Core Elective (3)
INLS 582 – Systems Analysis and Design (3)

Spring: (13 credits)
HPM 620 – Implementing Health Informatics Initiatives (3)
Public Health Track Elective (3)
GRAD 725 – PSM Seminar Series (1)
GRAD 713 – Applied Project Management (1.5)
GRAD 714 – Intro to Financial Accounting (1.5)
GRAD 989 – Practicum (3)