# Health Sciences (Clinical & Medical Sciences) & Master of Science in Health Informatics & Analytics 3+1

**PROGRAM OVERVIEW**

With the use of summer school and J-term, as well as using graduate course work to fulfill elective requirements, Clinical & Medical Sciences students are able to complete the four-year degree program plus the Master of Science in Health Informatics & Analytics (MS HIA) in a shorter time period than if they were to complete the two separately.

## 4-Year Guide

<table>
<tr><td colspan="6"><b>First Year</b></td></tr>
<tr><td colspan="3"><b>Fall Semester</b></td><td colspan="3"><b>Spring Semester</b></td></tr>
<tr><td>FYS ---</td><td>First Year Seminar</td><td>3 CR</td><td><b>HSCI 021</b></td><td><b>Professionalism in Health Care</b></td><td><b>2 CR</b></td></tr>
<tr><td><b>HSCI 020</b></td><td><b>Introduction to Health Sciences</b></td><td><b>2 CR</b></td><td>CHEM 002/4</td><td>General Chemistry II & Lab</td><td>4 CR</td></tr>
<tr><td>CHEM 001/3</td><td>General Chemistry I & Lab</td><td>4 CR</td><td>BIO 013/L</td><td>Pre-Professional Biology II & Lab</td><td>4 CR</td></tr>
<tr><td>BIO 012/L</td><td>Pre-Professional Biology I & Lab <i>(SCI AOI)</i></td><td>4 CR</td><td>MATH 050</td><td>Calculus I <i>(QUAN AOI)</i></td><td>3 CR</td></tr>
<tr><td>ELEC ---</td><td>Drake Curriculum/Electives</td><td>3 CR</td><td>ELEC ---</td><td>Drake Curriculum/Electives</td><td>3 CR</td></tr>
<tr><td><b>Total Semester Credit Hours</b></td><td></td><td><b>16</b></td><td><b>Total Semester Credit Hours</b></td><td></td><td><b>16</b></td></tr>
<tr><td colspan="6"><b>Second Year</b></td></tr>
<tr><td colspan="3"><b>Fall Semester</b></td><td colspan="3"><b>Spring Semester</b></td></tr>
<tr><td>HSCI 025*</td><td>Introduction to the US Health Care System</td><td>3 CR</td><td>HSCI 125/L</td><td>Physiology/Lab[1]</td><td>4 CR</td></tr>
<tr><td>CHEM 097/98</td><td>Org Chem I/Lab (OR PHY 011 OR BIO 103/L[4])</td><td>4 CR</td><td>HSCI 060*</td><td>Statistics in Health Sciences[3]</td><td>3 CR</td></tr>
<tr><td>PSY 001</td><td>Introduction to Psychology</td><td>4 CR</td><td>HSCI 106*</td><td>Culture Care & Health Literacy <i>(GLOB/CITZ AOI)</i></td><td>3 CR</td></tr>
<tr><td>HSCI 141/L</td><td>Human Anatomy/Lab</td><td>4 CR</td><td>ELEC ---</td><td>Drake Curriculum/Electives</td><td>4 CR</td></tr>
<tr><td><b>Total Semester Credit Hours</b></td><td></td><td><b>15</b></td><td><b>Total Semester Credit Hours</b></td><td></td><td><b>14</b></td></tr>
<tr><td colspan="6"><b>Third Year (Apply to Drake MS HIA Program)</b></td></tr>
<tr><td colspan="3"><b>Fall Semester</b></td><td colspan="3"><b>Spring Semester</b></td></tr>
<tr><td><b>HSCI 172</b></td><td><b>Evaluating Research Literature</b> <i>(INFO AOI)</i></td><td><b>3 CR</b></td><td><b>HSCI 105</b></td><td><b>Values & Ethics in Health Sciences</b> <i>(VE AOI)</i></td><td><b>3 CR</b></td></tr>
<tr><td>HSCI 095*</td><td>Medical Terminology</td><td>1 CR</td><td>HSCI 055*</td><td>Innovation & Leadership in Health Sciences</td><td>3 CR</td></tr>
<tr><td>HSCI 102</td><td>Health Economics[2]</td><td>3 CR</td><td>ELEC ---</td><td>Drake Curriculum/Electives</td><td>9 CR</td></tr>
<tr><td>ELEC ---</td><td>Drake Curriculum/Electives</td><td>9 CR</td><td></td><td></td><td></td></tr>
<tr><td><b>Total Semester Credit Hours</b></td><td></td><td><b>16</b></td><td><b>Total Semester Credit Hours</b></td><td></td><td><b>15</b></td></tr>
<tr><td colspan="6"><b>Fourth Year</b></td></tr>
<tr><td colspan="3"><b>Fall Semester</b></td><td colspan="3"><b>Spring Semester</b></td></tr>
<tr><td><b>HSCI 196</b></td><td><b>Health Sciences Internship I</b></td><td><b>3 CR</b></td><td><b>HSCI 197</b></td><td><b>Health Sciences Internship II</b></td><td><b>3 CR</b></td></tr>
<tr><td><b>HSCI 155</b></td><td><b>Guided Research in Health Sciences I</b></td><td><b>2 CR</b></td><td><b>HSCI 156</b></td><td><b>Guided Research in Health Sciences II</b></td><td><b>2 CR</b></td></tr>
<tr><td>MS HIA ---</td><td>Electives</td><td>12 CR</td><td>MS HIA ---</td><td>Electives</td><td>9 CR</td></tr>
<tr><td><b>Total Semester Credit Hours</b></td><td></td><td><b>17</b></td><td><b>Total Semester Credit Hours</b></td><td></td><td><b>14</b></td></tr>
<tr><td colspan="6"><b>Total Program Hours:  123</b></td></tr>
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Click here to view the remaining MS HIA requirements that should be taken in the above course slots. Students may take summer course work or courses the semester after graduation to complete the MS HIA.

**Bolded courses** must be taken in the designated semester unless prior approval by the College is provided.

**\*Asterisked HSCI courses** have multiple offerings each year; they should be taken within the designated year but can be taken during an alternative semester.

1 = BIO 129/L – Mammalian Physiology or PHAR 125 can be substituted for requirement (courses offered only in fall semester)
2 = ECON 002 – Microeconomics can be substituted for requirement
3 = STAT 071: Statistics I – an exception to program policy request may be submitted to fulfill this requirement
4 = BIO 103/L – Microbiology is offered only in spring semester and is 5 credits

**Electives (minimum 45 credits):** Elective credits include Drake Curriculum requirements not fulfilled by required coursework (outlined below) as well as non-required coursework that permits exploration of and/or advanced study in areas of professional interest within the student's primary degree. Students should review the student handbook for the complete elective policy. A maximum of 18 graduate level credits can be equated to this undergraduate Health Sciences degree.

**Drake Curriculum Areas of Inquiry not fulfilled by required coursework (12 credits):** Artistic Literacy, Engaged Citizen, Historical Foundations, and Written Communication.

**\*\*If not admitted to the MS HIA program, all credit minimums for Electives** must be fulfilled to earn a Bachelor of Science in Health Sciences degree.