

**SAMPLE SCHEDULE - CURRENT**  
**Bachelor of Science Computer Information Science**  
**with Concentration in Data Science and Artificial Intelligence**

| First Year         |                                                      |           |                    |                                                       |           |
|--------------------|------------------------------------------------------|-----------|--------------------|-------------------------------------------------------|-----------|
| Fall               |                                                      |           | Spring             |                                                       |           |
| Course             | Title                                                | Hours     | Course             | Title                                                 | Hours     |
| CM 111             | Introduction to Structured Programming <sup>a</sup>  | 4         | CM 231             | Computer Organization/Assembler Language <sup>a</sup> | 3         |
| CM 1/2XX           | Lower Division Elective <sup>a</sup>                 | 3         | CM 245             | Contemporary Programming Methods <sup>a</sup>         | 3         |
| MA 140             | Statistics (SGE) <sup>070, a</sup>                   | 3         | PH 220             | Symbolic Logic (SGE) <sup>060, a, d</sup>             | 3         |
| WU 101             | The Washburn Experience                              | 3         | CN XXX             | Suggested: Public Speaking (SGE) <sup>020, a</sup>    | 3         |
| EN 101             | Introductory College Writing (SGE) <sup>010, a</sup> | 3         | SO 100 /<br>PY 100 | Social and Behavioral Sciences (SGE) <sup>050</sup>   | 3         |
| <b>Total Hours</b> |                                                      | <b>16</b> | <b>Total Hours</b> |                                                       | <b>15</b> |

| Second Year        |                                                                                                                 |           |                    |                                                      |              |
|--------------------|-----------------------------------------------------------------------------------------------------------------|-----------|--------------------|------------------------------------------------------|--------------|
| Fall               |                                                                                                                 |           | Spring             |                                                      |              |
| Course             | Title                                                                                                           | Hours     | Course             | Title                                                | Hours        |
| CM 261             | Networked Systems <sup>a</sup>                                                                                  | 3         | CM 1/2XX           | Lower Division Elective <sup>a</sup>                 | 3            |
| MA 151             | Calculus & Analytic Geometry (SGE) <sup>030, a</sup>                                                            | 5         | MA 206             | Discrete Mathematics for Computing <sup>a</sup>      | 3            |
| EC 200 /<br>EC 201 | Principles of Microeconomics (SGE) <sup>050, a</sup> or<br>Principles of Macroeconomics (SGE) <sup>050, a</sup> | 3         | EN 200             | Intermediate College Writing (SGE) <sup>010, a</sup> | 3            |
| XXX                | Institutional-Inclusion & Belonging (SGE) <sup>070</sup>                                                        | 3         | XXX                | Natural and Physical Sciences (SGE) <sup>040</sup>   | 4-5          |
|                    |                                                                                                                 |           | PH 329             | AI Ethics <sup>a</sup>                               | 3            |
| <b>Total Hours</b> |                                                                                                                 | <b>14</b> | <b>Total Hours</b> |                                                      | <b>16-17</b> |

| Third Year         |                                                                                                                                                            |           |                              |                                                                                                                                                            |           |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|
| Fall               |                                                                                                                                                            |           | Spring                       |                                                                                                                                                            |           |
| Course             | Title                                                                                                                                                      | Hours     | Course                       | Title                                                                                                                                                      | Hours     |
| CM 307             | Data Structures & Algorithmic Analysis <sup>a</sup>                                                                                                        | 3         | CM 336                       | Database Management Systems <sup>a, c</sup>                                                                                                                | 3         |
| CM 322             | Operating Systems <sup>a, b</sup>                                                                                                                          | 3         | CM 334                       | Applied Computational Modeling <sup>a, c</sup>                                                                                                             | 3         |
| EN 300 /<br>EN 308 | Advanced College Writing <sup>a</sup> or Scientific<br>and Technical Writing <sup>a</sup>                                                                  | 3         | CN 340/<br>CN 341/<br>CN 342 | Interviewing <sup>a</sup> or Persuasive Speaking (SGE) <sup>060, a, d</sup><br>or Communication – Teams and Groups<br>(SGE) <sup>060, a, d</sup>           | 3         |
| MA 3XX             | MA301 <sup>a</sup> / 307 <sup>a</sup> / 340 <sup>a</sup> / 341 <sup>a</sup> / 342 <sup>a</sup> /<br>344 <sup>a</sup> / 346 <sup>a</sup> / 348 <sup>a</sup> | 3         | BU 342 /<br>BU 346           | Organization & Management <sup>a</sup> or<br>Organizational Behavior <sup>a</sup>                                                                          | 3         |
| CM 3XX             | CM Upper-Division Elective                                                                                                                                 | 3         | MA3XX                        | MA301 <sup>a</sup> / 307 <sup>a</sup> / 340 <sup>a</sup> / 341 <sup>a</sup> / 342 <sup>a</sup> / 344 <sup>a</sup> /<br>346 <sup>a</sup> / 348 <sup>a</sup> | 3         |
| <b>Total Hours</b> |                                                                                                                                                            | <b>15</b> | <b>Total Hours</b>           |                                                                                                                                                            | <b>15</b> |

| Fourth Year        |                                                                                                                                                            |           |                    |                                         |           |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------|-----------------------------------------|-----------|
| Fall               |                                                                                                                                                            |           | Spring             |                                         |           |
| Course             | Title                                                                                                                                                      | Hours     | Course             | Title                                   | Hours     |
| CM 333             | Software Engineering <sup>a, b</sup>                                                                                                                       | 3         | CM 465             | CIS Capstone Project                    | 3         |
| CM 332             | Machine Learning <sup>a, b</sup>                                                                                                                           | 3         | CM 331             | Artificial Intelligence <sup>a, c</sup> | 3         |
| CM 3XX             | Upper-Division Elective <sup>a</sup>                                                                                                                       | 3         | BS CON             | Math/Biology/Chemistry/Physics Elective | 3         |
| BS CON             | Math/Biology/Chemistry/Physics Elective                                                                                                                    | 3         | XXX                | Elective                                | 3         |
| MA3XX              | MA301 <sup>a</sup> / 307 <sup>a</sup> / 340 <sup>a</sup> / 341 <sup>a</sup> / 342 <sup>a</sup> / 344 <sup>a</sup> /<br>346 <sup>a</sup> / 348 <sup>a</sup> | 3         | XXX                | Elective                                | 3         |
| <b>Total Hours</b> |                                                                                                                                                            | <b>15</b> | <b>Total Hours</b> |                                         | <b>15</b> |

<sup>a</sup> Grade of "C" or higher is required

<sup>b</sup> Offered in Fall semester only

<sup>c</sup> Offered in Spring semester only

<sup>d</sup> Course can also fulfill a general education requirement; discuss with advisor

| Systemwide General Education (SGE) Key |                                  |        | Encourage to earn the AI Certificate |
|----------------------------------------|----------------------------------|--------|--------------------------------------|
| 010 English                            | 050 Social & Behavioral Sciences | AI 108 |                                      |
| 020 Communications                     | 060 Arts & Humanities            | AI 208 |                                      |
| 030 Math & Statistics                  | 070 Institutionally Designated   | PH 329 |                                      |
| 040 Natural & Physical Sciences        |                                  |        |                                      |