

## ARTIFICIAL INTELLIGENCE DEGREE (A25710)

The Artificial Intelligence (AI) curriculum is designed to provide students with the knowledge and skills necessary for employment and growth in the AI profession.

Course work includes various subject areas related to AI fundamentals, machine learning, deep learning theory, and hands-on training in multiple AI domains for the purpose of creating and implementing artificial intelligence across a broad range of applications.

Graduates may qualify for entry-level AI positions such as AI engineer, AI project manager, AI researcher, AI consultant, AI architect, conversational AI specialist, AI automation engineer, AI software engineer, and machine learning specialist.

*Wilson Community College is authorized to offer select courses leading to an Associate in Applied Science Degree in Artificial Intelligence through a cooperative agreement with Wayne Community College\*. Wayne Community College will award the Associate in Applied Science Degree in Artificial Intelligence to any student successfully completing all the stated requirements of the program.*

*First Fall and First Spring Semester courses are completed at Wilson Community College. All remaining courses are completed at Wayne Community College. All required courses at Wayne Community College can be completed 100% online.*

*\*Contact person at Wayne Community College is Jennifer Tyndall, Department Chair of Information Systems Technology ([jbtyndall@waynecc.edu](mailto:jbtyndall@waynecc.edu)).*

### COURSE & HOUR REQUIREMENTS

| Course Number & Name                                                                               | Class Hours | Lab Hours    | Credit Hours |
|----------------------------------------------------------------------------------------------------|-------------|--------------|--------------|
| <b>FALL SEMESTER (Courses taken at Wilson CC)</b>                                                  |             |              |              |
| ACA 111 College Student Success                                                                    | 1           | 0            | 1            |
| CSC 121 Python Programming (1 <sup>st</sup> 8 weeks)                                               | 2           | 3            | 3            |
| CSC 221 Advanced Python Programming (2 <sup>nd</sup> 8 weeks)                                      | 2           | 3            | 3            |
| ENG 111 Writing and Inquiry                                                                        | 3           | 0            | 3            |
| MAT 152 Statistical Methods I                                                                      | 3           | 2            | 4            |
| <b>Total</b>                                                                                       | <b>11</b>   | <b>8</b>     | <b>14</b>    |
| <b>SPRING SEMESTER (Courses taken at Wilson CC)</b>                                                |             |              |              |
| ENG 112 Writing/Research in the Disciplines <b>OR</b><br>ENG 114 Professional Research & Reporting | 3           | 0            | 3            |
| MAT 171 Precalculus Algebra (1 <sup>st</sup> 8 weeks)                                              | 3           | 2            | 4            |
| MAT 263 Brief Calculus (2 <sup>nd</sup> 8 weeks)                                                   | 3           | 2            | 4            |
| <b>**Humanities/Fine Arts Elective</b>                                                             | 3           | 0            | 3            |
| <b>Total</b>                                                                                       | <b>12</b>   | <b>4</b>     | <b>14</b>    |
| <b>SUMMER SEMESTER (Courses taken at Wayne CC)</b>                                                 |             |              |              |
| CSC 112 Machine Learning Computation                                                               | 2           | 3            | 3            |
| CTS 285 Systems Analysis & Design                                                                  | 3           | 0            | 3            |
| CSC 113 Artificial Intelligence Fundamentals                                                       | 2           | 2            | 3            |
| <b>**Social/Behavioral Science Elective</b>                                                        | 3           | 0            | 3            |
| <b>Total</b>                                                                                       | <b>10</b>   | <b>5</b>     | <b>12</b>    |
| <b>FALL SEMESTER (Courses taken at Wayne CC)</b>                                                   |             |              |              |
| CSC 114 Artificial Intelligence I                                                                  | 2           | 3            | 3            |
| CSC 115 Machine Learning I                                                                         | 2           | 3            | 3            |
| CSC 128 Chatbot Programming I                                                                      | 2           | 3            | 3            |
| CSC 162 Computer Vision                                                                            | 2           | 3            | 3            |
| CTS 210 Computer Ethics                                                                            | 3           | 0            | 3            |
| <b>Total</b>                                                                                       | <b>11</b>   | <b>12</b>    | <b>15</b>    |
| <b>SPRING SEMESTER (Courses taken at Wayne CC)</b>                                                 |             |              |              |
| CSC 161 Deep Learning                                                                              | 2           | 3            | 3            |
| CSC 214 Artificial Intelligence II                                                                 | 2           | 3            | 3            |
| CSC 215 Machine Learning II                                                                        | 2           | 3            | 3            |
| CSC 228 Chatbot Programming II                                                                     | 2           | 3            | 3            |
| WBL 110 World of Work <b>OR</b><br>WBL 111 Work-Based Learning I                                   | 1<br>0      | 0<br>10      | 1<br>1       |
| <b>Total</b>                                                                                       | <b>9</b>    | <b>12/22</b> | <b>13</b>    |
| <b>TOTAL SEMESTER CREDIT HOURS FOR DEGREE</b>                                                      |             |              | <b>68</b>    |

## ARTIFICIAL INTELLIGENCE DEGREE REQUIREMENTS

| Course Number & Name                                                                     | Class Hours | Lab Hours | Credit Hours |
|------------------------------------------------------------------------------------------|-------------|-----------|--------------|
| <b>**HUMANITIES/FINE ARTS ELECTIVE</b> <i>Select <b>one</b> from the following:</i>      |             |           |              |
| ART 111 Art Appreciation                                                                 | 3           | 0         | 3            |
| ENG 131 Introduction to Literature                                                       | 3           | 0         | 3            |
| ENG 231 American Literature I                                                            | 3           | 0         | 3            |
| ENG 232 American Literature II                                                           | 3           | 0         | 3            |
| ENG 241 British Literature I                                                             | 3           | 0         | 3            |
| ENG 242 British Literature II                                                            | 3           | 0         | 3            |
| HUM 115 Critical Thinking                                                                | 3           | 0         | 3            |
| MUS 110 Music Appreciation                                                               | 3           | 0         | 3            |
| MUS 112 Introduction to Jazz                                                             | 3           | 0         | 3            |
| PHI 215 Philosophical Issues                                                             | 3           | 0         | 3            |
| PHI 240 Introduction to Ethics                                                           | 3           | 0         | 3            |
| REL 110 World Religions                                                                  | 3           | 0         | 3            |
| <b>**SOCIAL/BEHAVIORAL SCIENCE ELECTIVE</b> <i>Select <b>one</b> from the following:</i> |             |           |              |
| ANT 210 General Anthropology                                                             | 3           | 0         | 3            |
| ECO 251 Principles of Microeconomics                                                     | 3           | 0         | 3            |
| ECO 252 Principles of Macroeconomics                                                     | 3           | 0         | 3            |
| GEO 111 World Regional Geography                                                         | 3           | 0         | 3            |
| GEO 112 Cultural Geography                                                               | 3           | 0         | 3            |
| HIS 111 World Civilizations I                                                            | 3           | 0         | 3            |
| HIS 112 World Civilizations II                                                           | 3           | 0         | 3            |
| HIS 121 Western Civilization I                                                           | 3           | 0         | 3            |
| HIS 122 Western Civilization II                                                          | 3           | 0         | 3            |
| HIS 131 American History I                                                               | 3           | 0         | 3            |
| HIS 132 American History II                                                              | 3           | 0         | 3            |
| POL 120 American Government                                                              | 3           | 0         | 3            |
| PSY 150 General Psychology                                                               | 3           | 0         | 3            |
| PSY 237 Social Psychology                                                                | 3           | 0         | 3            |
| PSY 241 Developmental Psychology                                                         | 3           | 0         | 3            |
| PSY 281 Abnormal Psychology                                                              | 3           | 0         | 3            |
| SOC 210 Introduction to Sociology                                                        | 3           | 0         | 3            |
| SOC 213 Sociology of the Family                                                          | 3           | 0         | 3            |
| SOC 220 Social Problems                                                                  | 3           | 0         | 3            |
| SOC 225 Social Diversity                                                                 | 3           | 0         | 3            |
| SOC 230 Race and Ethnic Relations                                                        | 3           | 0         | 3            |
| SOC 240 Social Psychology                                                                | 3           | 0         | 3            |