

Computer Science BS with Early Entry Machine Learning MS V1

| | | Fall | | | | | Spring | | | | | |
|-------------------------|-----|------|--|--------------------------|---|---------------------------|--------|------|--|---|---|---|
| Year 1 | CSC | 1110 | Software Development | 3 | 2 | 4 | CSC | 1120 | Data Structures and Graphical Interfaces | 3 | 2 | 4 |
| | MTH | 1110 | Calculus I | 4 | 0 | 4 | MTH | 1120 | Calculus II | 4 | 0 | 4 |
| | PHY | 1110 | Physics I – Mechanics and Thermodynamics | 3 | 2 | 4 | | | Elective (Lab Science) | 3 | 2 | 4 |
| | COM | 1001 | College Writing | 3 | 0 | 3 | | | Elective (Exhibit Curiosity) | 3 | 0 | 3 |
| | | | | | | | IDS | 2020 | Career Development | 1 | 0 | 0 |
| Year 1 – Fall – 13-4-15 | | | | | | Year 1 – Spring – 13-4-15 | | | | | | |
| Year 2 | CSC | 2611 | AI Tools | 2 | 2 | 3 | CSC | 2721 | Intro to Data Science | 2 | 2 | 3 |
| | SWE | 2410 | Design and Cloud Patterns | 2 | 2 | 3 | SWE | 2710 | Software Tools and Process | 3 | 2 | 4 |
| | MTH | 2340 | Linear Algebra with Applications | 3 | 0 | 3 | MTH | 2310 | Discrete Math | 3 | 0 | 3 |
| | MTH | 2130 | Calculus III | 4 | 0 | 4 | MTH | 2480 | Probability and Statistics | 3 | 0 | 3 |
| | COM | 2001 | Writing for the STEM Disciplines | 3 | 0 | 3 | PHL | 3102 | Ethics of AI | 3 | 0 | 3 |
| Year 2 – Fall – 15-4-17 | | | | | | Year 2 – Spring – 14-4-16 | | | | | | |
| Year 3 | CSC | 4601 | Theory of Machine Learning | 2 | 2 | 3 | CSC | 4611 | Deep Learning | 2 | 2 | 3 |
| | CSC | 3511 | Security and Networking | 2 | 2 | 3 | CSC | 4801 | Data Science Practicum | 2 | 2 | 3 |
| | CSC | 2210 | Procedural and Object-Oriented C++ | 4 | 0 | 4 | CSC | 3210 | Operating Systems | 3 | 0 | 3 |
| | CSC | 3310 | Algorithms and Advanced Data Structures | 3 | 0 | 3 | CSC | 3320 | Databases | 3 | 0 | 3 |
| | COM | 3001 | Professional Presentations | 3 | 0 | 3 | BUS | 2411 | Building Inclusive Teams | 3 | 0 | 3 |
| Year 3 – Fall – 13-6-16 | | | | | | Year 3 – Spring – 14-4-16 | | | | | | |
| Year 4 | CSC | 4901 | Computer Science Capstone I | 1 | 0 | 3 | CSC | 4902 | Computer Science Capstone II | 1 | 0 | 3 |
| | CSC | 4631 | Artificial Intelligence | 2 | 2 | 3 | | | Elective (Free) | 3 | 0 | 3 |
| | | | Elective (Embrace Diversity) | 3 | 0 | 3 | | | Elective (Raider Core – Any) | 3 | 0 | 3 |
| | | | Elective (ML Master's) | 4 | 0 | 4 | CSC | 5201 | Microservices and Cloud Computing | 4 | 0 | 4 |
| | | | Elective (ML Master's) | 4 | 0 | 4 | | | Elective (ML Master's) | 4 | 0 | 4 |
| Year 4 – Fall – 14-2-17 | | | | | | Year 4 – Spring – 15-0-17 | | | | | | |
| Summer | | CSC | 6621 | Applied Machine Learning | 4 | 0 | 4 | | | | | |
| | | PHL | 6001 | AI Ethics and Governance | 4 | 0 | 4 | | | | | |
| Year 4 – Summer – 8-0-8 | | | | | | | | | | | | |
| Yr 5 | CSC | 6605 | ML Production Systems | 4 | 0 | 4 | | | | | | |
| | CSC | 7901 | Capstone Project | 4 | 0 | 4 | | | | | | |
| Year 5 – Fall – 8-0-8 | | | | | | | | | | | | |

Computer Science BS with Early Entry Machine Learning MS V1

