

Sample Pathway to Bachelor of Science in *Computer & Information Science*, concentration in **Artificial Intelligence** (120 credits) **Fall 2025**

SEMESTER 1	SEMESTER 2	Notes
<input type="checkbox"/> CIS 150+ CIS 150L (4) <i>Computer Science I</i> (MATH 115*) <input type="checkbox"/> COMP 105 (3) <i>Writing & Rhetoric I</i> DDC GEWO <input type="checkbox"/> MATH 115 (4) <i>Calculus I</i> (MATH 105 'C-' or placement); DDC GEQT <input type="checkbox"/> DDC course (3) GEHA See DDC master list for options	<input type="checkbox"/> CIS 200 + CIS 200L (4) <i>Computer Science II</i> (CIS 150 'C-', MATH 115) <input type="checkbox"/> CIS 275 (4) <i>Discrete Structures I</i> (CIS 200*, MATH 115) <input type="checkbox"/> MATH 116 (4) <i>Calculus II</i> (MATH 115 'C-') <input type="checkbox"/> DDC course (3) GEHA See DDC master list for options	<ul style="list-style-type: none"> The sample pathways were created with Fall and Winter semester enrollment in mind. Summer semesters can be used to lessen the workload, and/or participate in co-op or research. For DDC requirements, please see the University's guidelines
SEMESTER 3	SEMESTER 4	Notes
<input type="checkbox"/> Lab Science Sequence I (4) <i>Choose from: BIOL 130, GEOL 118 (Fall only), CHEM 134, PHYS 125, PHYS 150; DDC GENS</i> <input type="checkbox"/> CIS 350 (4) <i>Data Structures</i> (MATH 115, CIS 200 'C-', CIS 275) <input type="checkbox"/> CIS 306 (4) <i>Discrete Structures II</i> (CIS 275); DDC GEIN <input type="checkbox"/> MATH 227 (3) <i>Intro to Linear Algebra</i> (MATH 116 'C-') <input type="checkbox"/> DDC course (3) GESB See DDC master list for options	<input type="checkbox"/> Lab Science Sequence II (4) <i>Same subject from Sequence I: BIOL 320 (Summer only), GEOL 218 (Winter only), CHEM 136, PHYS 126, PHYS 151; DDC GENS</i> <input type="checkbox"/> CIS 310 (4) <i>Assembly Language</i> (MATH 115, CIS 200, CIS 275) <input type="checkbox"/> IMSE 317 (3) <i>Eng probability and Stats</i> (MATH 116) <input type="checkbox"/> COMP 270 (3) <i>Technical Writing</i> (COMP 105 or placement); DDC GEWO <input type="checkbox"/> DDC course (3) GESB See DDC master list for options	<ul style="list-style-type: none"> Each student's pathway is unique and may differ slightly from this one Please note that a course may fulfill multiple requirements; however, credit is only applied once. Using one course to fulfill multiple requirements may result in a deficiency in total credits

* denotes a corequisite course
 Courses listed in parentheses () are prerequisites for the listed course

SEMESTER 5	SEMESTER 6	
<input type="checkbox"/> CIS 450 (4) <i>Operating Systems</i> (CIS 310, CIS 350, IMSE 317*) <input type="checkbox"/> CIS 375 (4) <i>Software Engineering I</i> (COMP 270, CIS 350); DDC GEUW <input type="checkbox"/> CIS 298 (3) <i>Introduction to Python</i> Winter (CIS 200) <input type="checkbox"/> ECON 201 <i>Macroeconomics</i> , or ECON 202 <i>Microeconomics</i> (3) (MATH 105 recommended); DDC GESB	<input type="checkbox"/> CIS 427 (4) <i>Computer Networks</i> (IMSE 317, CIS 350) <input type="checkbox"/> Approved CIS Technical Elective (3) See individual courses for pre-reqs <input type="checkbox"/> Approved CIS Technical Elective (3) See individual courses for pre-reqs <input type="checkbox"/> Additional Lab Science (4) Choose course in different subject area from Lab Science Sequence on the previous page. Options include: ASTR 130 + 131, GEOL 118, GEOL 218, CHEM 134, PHYS 125, PHYS 150	
SEMESTER 7	SEMESTER 8	NOTES
<input type="checkbox"/> CIS 4951 (2) <i>Senior Design I</i> (CIS 375, 427, 450); DDC GECC, GECE <input type="checkbox"/> CIS 479 (3) <i>Intro to Artificial Intelligence</i> (CIS 350 and IMSE 317 or STAT 325) <input type="checkbox"/> CIS 411 (3) <i>Intro Natural Language Processing</i> <i>Fall only</i> (CIS 350 or CIS 3501) <input type="checkbox"/> Approved CIS Technical Elective (3) See individual courses for pre-reqs <input type="checkbox"/> Approved CIS Technical Elective (3) See individual courses for pre-reqs	<input type="checkbox"/> CIS 4952 (2) <i>Senior Design II</i> (CIS 4951); DDC GECC, GECE <input type="checkbox"/> CIS 481 (3) <i>Computational Learning</i> (<i>Winter only</i>) CIS 306 *Math 227 *IMSE 317 <input type="checkbox"/> CIS 483 (3) <i>Deep Learning</i> (CIS 350) <input type="checkbox"/> Approved CIS Technical Elective (3) See individual courses for pre-reqs <input type="checkbox"/> Approved CIS Technical Elective (3) See individual courses for pre-reqs	<p>APPROVED LIST OF TECHNICAL ELECTIVES (18 credits required)</p> <p>CIS 285 (3), CIS 316 (3), CIS 376 (4), CIS 381 (4), CIS 387 (4), CIS 400 (4), CIS 405 (3), CIS 412 (3cr) *CIS 421 (4), *CIS 422 (3), CIS 425 (4), CIS 435 (3), CIS 436 (3), CIS 437 (3), CIS 439 (3), CIS 446 (3), CIS 447 (3), CIS 449 (3), CIS 451 (3), CIS 452 (3), CIS 467 (3), CIS 474 (3), CIS 476 (3), CIS 482 (3cr), CIS 4851 (3), CIS 487 (3), CIS 488 (3), CIS 489 (3), CCM 404 (3), CCM 472 (3), CCM 473(3), ENGR 399 (1), ENGR 400 (3), ENGR 492 (1-3), ENGR 493 (1-3), ENT 400 (3)</p> <p>* Credit cannot be earned for both CIS 421 and CIS 422</p> <ul style="list-style-type: none"> • Check design/tech courses' prerequisites, corequisites, course credit and schedule in DegreeWorks, the Undergrad Catalog and Browse Classes