

Sample Pathway to Bachelor of Science in *Cybersecurity & Information Assurance*, concentration in **Cybersecurity & Privacy**, 123 cr. **Fall 2025**

Semester 1	Semester 2	NOTES
<input type="checkbox"/> CIS 150 (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"/> PHIL 240 (3) <i>Ethics</i> DDC GEHA	<input type="checkbox"/> CIS 200 (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"/> ECON 201 <i>Macroeconomics</i> or ECON 202 <i>Microeconomics</i> (3)	<p>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.</p> <p>For DDC requirements, please see the University's guidelines</p> <p>Each student's pathway is unique and may differ slightly from this one</p> <p>See DDC master list for GESB/GEHA options</p>
Semester 3	Semester 4	NOTES
<input type="checkbox"/> Lab Science Sequence I (4) Choose from: BIOL 130, GEOL 118, CHEM 134, PHYS 125, PHYS 150; DDC GENS <input type="checkbox"/> CIS 350 (4) <i>Data Structures</i> (MATH 115, CIS 200 'C-', CIS 275) <input type="checkbox"/> CIS 316 Fall (3) <i>Pract Aspects Comp Security</i> (CIS 200 'C-') <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"/> Lab Science Sequence II (4) Same subject from Sequence I: BIOL 320, GEOL 218, CHEM 136, PHYS 126, PHYS 151; DDC GENS <input type="checkbox"/> MATH 227 (3) <i>Linear Algebra</i> (MATH 116 'C-') <input type="checkbox"/> CIS 310 (4) <i>Comp Org & Assembly Lang</i> (MATH 115, CIS 200, CIS 275) <input type="checkbox"/> CIS 421 (4) <i>Database Mgmt Systems</i> (CIS 350)	<p>Students must have 7 credits of technical electives: between Cybersecurity and Privacy Concentration and technical electives must equal 28 credits.</p> <p>Approved Technical Electives: CIS 285 (3), CIS 299 (1), CIS 316 (3), CIS 376 (4), CIS 381 (4), CIS 387 (4), CIS 399 (1), CIS 411 (3), CIS 412 (3), CIS 425 (4), CIS 436 (3), CIS 437, CIS 439 (3), CIS 446 (3), CIS 447 (3), CIS 449 (3), CIS 467 (4), CIS 476 (3), CIS 479 (3), CIS 482 (3), CIS 483 (3), 4851 (3), CIS 487 (3), CIS 499 (1), CRJ 474 (4), CRJ 487 (4), CIS 489 (3), CRJ 490J (4), ECE 372 (4), ECE 426 (4), ECE 427 (4), ECE 428 (3), ECE 435 (4), ECE 473 (4), ENGR 360 (4), ENGR 399 (1), ENGR 400 (3), ENGR 492 (1-3), ENGR 493 (1-3), ENT 400 (3), IMSE 421 (3), ITM 383 (3)</p>

* denotes a corequisite course

Courses listed in parentheses () are prerequisites for the listed course

Semester 5	Semester 6	NOTES
<ul style="list-style-type: none"> <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"/> CRJ 200 (4) <input type="checkbox"/> ACC 298 (3) <i>Financial Accounting</i> (MATH 115, 25 credits) <input type="checkbox"/> CIS 4851 Fall (3) <i>Data Security & Privacy</i> (CIS 200) 	<ul style="list-style-type: none"> <input type="checkbox"/> CIS 427 (4) <i>Computer Networks</i> (IMSE 317, CIS 350) <input type="checkbox"/> CIS 446 Winter (3) <i>Wireless & Mobile Comp Security</i> (CIS 200) <input type="checkbox"/> Intersections (3) GEIN <input type="checkbox"/> MATH 396 Winter (3) <i>Cryptography</i> (MATH 227 'C-') <input type="checkbox"/> DDC Course (3) GEHA 	<p>A course may have multiple requirements; however, credit is only applied once. Using one course to multiple requirements may result in a deficiency in total credits.</p>
Semester 7	Semester 8	NOTES
<ul style="list-style-type: none"> <input type="checkbox"/> CIS 4951 (2) <i>Senior Design I</i> (CIS 310, 375, 427 and 450); DDC GECT <input type="checkbox"/> CIS 447 Fall (3) <i>Network Security</i> (CIS 450*) <input type="checkbox"/> CIS 435 Fall (3) <i>Web Technology</i> (CIS 375*) <input type="checkbox"/> OB 354 (3) <i>Organizational Behavior</i> (55 credits); DDC GESB <input type="checkbox"/> CRJ 409 (4) <i>Homeland Security</i> (CRJ 200) 	<ul style="list-style-type: none"> <input type="checkbox"/> CIS 4952 (2) <i>Senior Design II</i> (CIS 4951); DDC GECT, GECE <input type="checkbox"/> CIS 449 Winter (3) <i>Intro to Soft Security</i> (CIS 350), or ECE 427 (4) <i>Digital Content Protection</i> (CIS 447) <input type="checkbox"/> Intersections (3) <input type="checkbox"/> Approved CIA Elective (3-4) See individual courses for pre-reqs <input type="checkbox"/> Approved CIA Elective (3-4) See individual courses for pre-reqs 	