COLLEGE OF ENGINEERING & COMPUTER SCIENCE
DEARBORN | UNIVERSITY OF MICHIGAN-DEARBORN

Student name: _____ ID #:_____

Sample Pathway to Bachelor of Science in Engineering: Computer Engineering, 125 total credits (2026)

Semester 1	Semester 2	NOTES
☐ **CHEM 134 + CHEM 134L** (4) *Chemistry I* (MATH 105* or higher) ☐ **ENGR 100 + ENGR 100L** (3) *Intro to Engr* (MATH 105* or higher) ☐ **MATH 115** (4) *Calculus I* (MATH 105 'C-' or placement by exam) DDC GECT ☐ **COMP 105** (3) *Composition I*	☐ **ECE 273 + ECE 273R + ECE 273L** (4) *Digital Systems* (Math 115*) ☐ **MATH 116** (4) *Calculus II* (MATH 115 'C-') ☐ **PHYS 150 + PHYS 150L** (4) *Physics I* (Math 115*: recommended as prereq) DDC GENS ☐ **COMP 270** (3) *Technical Writing* (COMP 105 or placement by exam, 35 completed credits) DDC GEWO (COMP 099 or placement by exam) DDC GEWO ☐ **DDC course** (3) GEHA	• 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 • 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. Please see your advisor.
Semester 3	**Semester 4**	**Notes**
☐ **MATH 215** (4) *Calculus III* (MATH 116 'C-') ☐ **PHYS 151 + PHYS 151L** (4) *Physics II* (PHYS 150, MATH 116*) DDC GENS ☐ **ECE 270 +ECE 270R** (4) *Computer Methods* (ENGR 100, Math 115*) ☐ **DDC course** (3) GEIN ☐ **ECON 201** or **202** (3) *Macroeconomics* or *Microeconomics* (MATH 105) DDC GESB	☐ **ECE 210 + ECE 210R + ECE 210L** (4) *Circuits* (MATH 116 'C-', PHYS 151*) ☐ **MATH 228** (4) *Diff Equ w/ Linear Algebra* (Math 116 'C-') ☐ **ECE 276** (4) *Discrete Math* (Math 116 'C-') ☐ **DDC course** (3) GEHA	• Each student's pathway is unique and may differ slightly from this one

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

Semester 5	Semester 6	CE Elective Courses
☐ **ECE 3731** (4) *Microprocessors & Embedded Systems* (ECE 273, ECE 270) ☐ **ECE 311 + ECE 311L** (4) *Electronic Circuits I* (ECE 210, CHEM 134, COMP 270*) ☐ **ECE 370** (4) *Adv Soft Techniques in Computer Engr* (ECE 270, ECE 273*) ☐ **IMSE 317** (3) *Engineering Prob & Stats* (Math 116 'C-')	☐ **ECE 375** (4) *Intro to Comp Architecture* (ECE 270, ECE 273, ECE 276*, ECE 3731*) ☐ **ECE 471** (4) *Comp Networks / Data Comm* (ECE 3731, IMSE 317) ☐ **ECE 473** (4) *Embedded Systems* (ECE 3731) ☐ **Professional Elective** (4) ENEP (check individual courses for pre-reqs)	TECHNICAL ELECTIVES (15) PROFESSIONAL ELECTIVES (7 or 8 cr minimum) ECE 237, ECE 3171,ECE 329, ECE 387, ECE 413, ECE 426, ECE 428, ECE 433, ECE 434, ECE 435, ECE 438, ECE 439, ECE 467, ECE 479, ECE 4881,ENGR 492, ENGR 493 Notes: Students receive credit for only one from ECE 3171, ECE 317, and ECE 3801.
Semester 7	**Semester 8**	
☐ **ECE 475** (4) *Comp Hardware Org / Design* (ECE 375) ☐ **ECE 478** (4) *Operating Systems* (ECE 370, IMSE 317) ☐ **Professional Elective** (4) ENEP (check individual courses for pre-reqs) ☐ **ECE 4982** (2) *CE Design I* (ECE 3731, ECE 375, Senior standing, & at least one of the following: ECE 471, 473, 475, 478) ☐ **DDC course** (3) GESB	☐ **ENT 400** (3) Entrepreneurial Thinking & Beh. (Junior standing) DDC GEIN or **ENGR 400** (3) Appl Business Tech for Engr (Senior Standing) DDC GEIN ☐ **DDC course** (3) GESB ☐ **Approved Elective** (3) ENET (check individual courses for pre-reqs) ☐ **Approved Elective** (4) ENET (check individual courses for pre-reqs) ☐ **ECE 4984** (2) *CE Design II* (ECE 4982) DDC GECE	APPROVED ELECTIVES ECE 237, ECE 3171, ECE 319, ECE 329, ECE 385, ECE 387,ECE 414, ECE 415, ECE 426, ECE 428, ECE 433, ECE 434, ECE 435, ECE 4361 [or 436], ECE 438, ECE 439, ECE 4432 [or 443], ECE 4431, ECE 446, ECE 450, ECE 460, ECE 467, ECE 479, ECE 480, ECE 4881, ECE 491, ECE 4951, ENGR 299, ENGR 350, ENGR 399, ENGR 492, ENGR 493, ENGR 499, IMSE 3005, IMSE 381, IMSE 421, IMSE 4425, IMSE 4545, ME 230, ME 260 OR ME 265 • Review Professional, Approved Elective courses, prerequisites, corequisites, course credit and schedule in DegreeWorks, the Undergrad Catalog and Browse Classes.

* denotes a corequisite course

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