

Course Identification	A+	A	A-	B+	B	B-	C+	C	C-	Other Passes	D	E	Other Fails	Pending	Withdrawn
CGRA151 - Intro to Computer Graphics	13	11	25	22	29	32	19	18	19	0	13	25	1	3	3
CGRA251 - Computer Graphics	4	0	0	3	3	3	1	3	2	0	0	3	0	0	2
CGRA350 - Real-time 3D Computer Graphics	3	1	1	2	3	0	2	0	0	0	1	1	0	0	1
CGRA352 - Image-based Graphics	2	0	2	2	2	0	1	0	0	0	1	0	0	0	0
CGRA408 - Computer Graphics Rendering	1	1	0	1	1	0	0	0	0	0	0	1	0	0	0
CGRA591 - Thesis in Computer Graphics	2	1	0	0	0	0	0	0	0	0	0	0	0	3	0
CGRA691 - Computer Graphics for PhD	0	0	0	0	0	0	0	0	0	1	0	0	0	7	0
COMP102 - Intro to Comp Prog Design	46	38	30	29	35	42	26	28	20	1	32	85	2	3	16
COMP103 - Intro to Data Struct & Alghms	17	27	54	44	38	27	28	19	13	0	19	54	3	63	13
COMP112 - Intro to Computer Science	45	22	9	5	6	4	6	0	0	1	4	10	0	0	2
COMP132 - Programming Natural & Soc Sci	23	21	5	9	11	13	13	6	17	0	7	30	1	0	4
COMP261 - Algorithms and Data Structures	30	18	37	23	29	32	26	21	21	1	15	30	0	0	6
COMP304 - Programming Languages	7	3	7	10	3	5	5	5	5	1	2	10	0	0	2
COMP307 - Intro to Artificial Intelligen	13	19	11	26	16	30	7	16	16	3	7	20	0	0	10
COMP309 - ML Tools and Techniques	11	12	18	24	9	14	13	7	2	0	1	18	0	0	13
COMP313 - Computer Game Development	5	9	8	10	6	2	2	1	0	0	0	1	0	0	2
COMP361 - Design, Analysis of Algorithms	4	2	2	4	5	3	6	5	3	0	3	17	0	1	4
COMP421 - Machine Learning	1	2	0	2	1	1	2	0	0	0	1	1	0	0	1
COMP422 - Data Mining, Neural Networks	4	4	10	5	3	3	1	0	2	0	1	3	0	0	0
COMP423 - Intelligent Agents	4	7	8	6	3	5	1	0	0	0	0	1	0	0	3
COMP424 - Big Data	5	9	6	5	6	4	2	1	1	0	0	1	0	0	1
COMP440 - Directed Individual Study	4	2	4	3	3	1	1	0	0	0	0	1	0	1	0
COMP441 - Directed Individual Study	0	2	4	0	1	0	0	0	0	0	0	1	0	0	0
COMP501 - Research Essay in Computer Sci	0	0	0	0	0	0	0	0	0	0	0	0	0	8	0
COMP589 - Project	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
COMP591 - Computer Science Thesis	1	1	0	0	0	0	0	0	0	0	0	0	0	5	0
COMP690 - Computer Science for PhD	0	0	0	0	0	0	0	0	0	4	0	0	0	33	0
CYBR171 - Cybersecurity Fundamentals	14	32	50	55	41	44	17	8	12	0	10	33	0	0	7
CYBR271 - Secure Programming	22	24	31	28	25	9	13	13	8	0	7	16	0	0	2
ECEN202 - Digital Electronics	7	5	5	6	2	2	0	2	1	0	0	2	0	0	2
ECEN203 - Analogue Circuits and Systems	4	2	2	6	1	7	2	1	7	0	1	1	0	0	3
ECEN204 - Electronic Design	5	4	2	5	4	7	3	0	1	0	1	1	0	0	2
ECEN220 - Signals and Systems	5	1	0	4	3	3	2	4	0	0	2	3	0	0	0
ECEN301 - Embedded Systems	3	2	3	4	4	3	3	2	1	0	2	3	0	0	1
ECEN302 - Integrated Digital Electronics	1	2	1	2	3	1	2	2	0	0	1	1	1	0	0
ECEN303 - Analogue Electronics	0	1	3	4	4	3	1	0	0	0	1	1	0	0	1
ECEN310 - Communication Engineering	2	4	0	1	3	3	1	4	0	0	0	2	0	0	0
ECEN315 - Control Systems Engineering	1	4	3	3	2	2	1	3	1	0	0	1	0	0	1
ECEN321 - Engineering Statistics	1	3	2	2	3	2	1	1	3	0	5	1	0	0	0
ECEN405 - Power Electronics	1	0	6	4	2	0	0	0	2	0	0	0	0	0	0
ECEN415 - Advanced Control Systems Eng	1	0	0	0	2	1	0	0	1	0	0	1	0	0	0
ECEN421 - Advanced Signal Processing	1	1	2	1	1	0	0	0	0	0	0	2	0	0	0
ECEN425 - Adv Mechatronic Engineering 1	3	2	5	1	1	0	0	0	0	0	0	0	0	0	0
ECEN430 - Adv Mechatronic Engineering 2	0	4	2	3	1	1	0	0	0	0	0	0	0	0	0
ENGR101 - Engineering Technology	28	27	41	51	39	8	11	6	5	0	3	16	0	0	6
ENGR110 - Engineering Design	23	33	40	19	19	20	2	9	8	0	6	14	0	1	4
ENGR111 - Intro Renewable Energy Systems	0	0	2	3	2	1	1	0	0	0	0	6	0	0	0

ENGR201 - Engineering in Context	13	19	30	21	14	16	3	1	5	0	0	2	0	0	2
ENGR291 - Work Experience Preparation	0	0	0	0	0	0	0	0	0	0	0	0	0	144	6
ENGR301 - Project Management	5	2	5	10	13	16	16	11	12	0	0	5	0	0	2
ENGR302 - Group Project	9	4	7	11	12	8	11	5	7	0	4	4	0	1	0
ENGR391 - Practical Work Experience	0	0	0	0	0	0	0	0	0	1	0	0	0	100	4
ENGR401 - Professional Practice	7	7	18	18	15	5	0	0	2	0	0	0	0	0	4
ENGR440 - Directed Individual Study	5	6	11	4	4	3	3	1	1	0	1	3	0	2	0
ENGR441 - Directed Individual Study	2	1	4	0	6	1	0	1	2	0	0	2	0	0	0
ENGR489 - Engineering Project	9	14	19	10	4	5	3	2	0	0	0	1	0	4	7
ENGR491 - Professional Work Experience	0	0	0	0	0	0	0	0	0	10	0	0	0	60	3
ENGR501 - Eng Research & Communication	2	2	1	1	1	1	0	0	0	0	0	0	0	0	0
ENGR502 - Engineering Prof Practice	0	0	1	1	2	2	2	0	0	0	0	0	0	0	0
ENGR510 - Engineering Project 1	0	0	0	2	2	2	1	1	0	0	0	0	0	0	0
ENGR511 - Engineering Project 2	1	0	1	1	3	0	1	1	0	0	0	0	0	0	0
ENGR589 - Industry Project	0	0	0	0	0	0	0	0	0	0	0	0	0	6	0
ENGR591 - Thesis	1	1	1	1	0	0	0	0	0	0	0	0	0	2	0
ENGR690 - Engineering for PhD	0	0	0	0	0	0	0	0	0	11	0	0	0	42	0
NWEN241 - Systems Programming	16	26	29	25	37	31	29	22	32	1	10	26	0	0	7
NWEN243 - Network Applications	15	15	25	28	35	26	23	9	13	3	7	23	5	3	4
NWEN301 - Operating Systems Design	3	1	1	2	1	3	2	2	1	0	0	4	0	1	1
NWEN302 - Computer Network Design	2	1	2	2	1	4	2	1	1	0	2	3	3	1	2
NWEN303 - Concurrent Programming	3	3	2	5	7	4	2	0	5	1	2	7	0	0	0
NWEN304 - Advanced Network Applications	4	6	5	10	8	5	2	4	1	0	2	1	2	1	3
NWEN342 - Computer Organisation	3	4	0	3	5	5	7	4	3	0	1	3	1	0	0
NWEN403 - Advanced Network Engineering	1	1	1	2	1	0	1	0	0	0	0	1	0	0	0
NWEN404 - Mobile Computing	0	1	2	1	1	1	0	1	0	0	0	0	0	0	1
NWEN405 - Security Engineering	1	2	4	3	1	0	0	0	0	0	0	0	0	0	0
RESE412 - Adv Devel of RESE	2	3	3	1	5	0	1	0	0	0	0	1	0	0	0
SWEN131 - Programming for Software Devel	9	2	1	1	1	1	0	0	0	0	0	0	0	0	0
SWEN221 - Software Development	16	32	27	25	21	28	25	27	18	3	26	22	0	0	4
SWEN225 - Software Design	17	19	20	23	29	22	17	14	7	0	5	2	2	2	2
SWEN301 - Structured Methods	26	8	12	12	8	9	10	6	6	0	7	7	0	0	2
SWEN303 - User Interface Design	8	20	23	11	13	6	3	3	1	0	1	3	0	0	1
SWEN304 - Database System Engineering	15	13	19	17	17	16	10	11	4	0	6	14	1	4	3
SWEN324 - Software Correctness	3	1	1	3	6	3	7	6	7	0	3	5	0	1	6
SWEN325 - Software Dev for Mobile	12	21	12	12	10	7	4	7	5	1	2	11	0	0	6
SWEN326 - Safety-Critical Systems	5	8	23	22	11	8	5	6	3	0	4	7	0	0	1
SWEN421 - Formal Software Engineering	8	0	2	2	4	1	1	1	3	0	1	0	0	0	1
SWEN422 - Human Computer Interaction	7	16	13	9	9	4	4	2	3	0	0	0	0	0	0
SWEN423 - Object-Oriented Paradigms	4	3	3	1	4	0	1	4	4	0	0	1	0	0	0
SWEN424 - Model-driven Development	3	2	6	5	6	5	3	2	1	0	0	2	0	0	0
SWEN430 - Compiler Engineering	3	4	6	3	3	4	2	3	3	0	1	1	0	0	1
SWEN432 - Adv Database Design & Imp	7	9	10	7	2	0	2	1	0	0	0	0	1	0	2
SWEN433 - Web Information Systems Eng	5	7	8	5	6	3	0	1	2	0	0	0	0	0	0