	Institution	PRINCE GEORGE'S COMMUNITY COLLEGE				MORGAN STATE UNIVERSITY			
	Catalogs	2022-2023 Academic Catalog - Engineering, AS				2022-2024 Academic Catalog - Mechatronics Engineering, BS			
	Gen Ed Requirements	General Education List				General Education Requirements Distribution Areas			
	Recommended Semester	PGCC Courses	PGCC Course Title	Credits	General Education or Program Requirement	MSU Courses	MSU Course Title	Credits	General Education or Program Requirement
First Year	1	PAS 1000	First Year Experience	1	Institutional Requirement	OREN 104	Freshman Orientation for Engineering Majors	1	Institutional Requirement
	1	EGL 1010	Composition I: Exposition Writing	3	English - General Education Requirement	ENGL 101	Freshman Composition I	3	English Composition (EC) - Gen Ed Requirement
	1	MAT 2410	Calculus I	4	Mathematics - General Education Requirement	MATH 241	Calculus I*	4	Mathematics and Quantitative Reasoning (MQ) - Gen Ed Requirement
	1	EGR 1140	Computer Programming for Engineers and Scientists	3	Program Requirement	EEGR 161	Introduction to C Programming	3	Electrical Engineering Elective
	1	EGR 1010	Introductory Engineering	3	Program Requirement; Critical Course	IEGR 204	Introduction to IE and Computers	3	Engineering Elective
	1	COMM 1090	Interpersonal Communication	3	Arts/Humanities - General Education Requirement	XXXX	Arts and Humanities (AH)	3	Arts and Humanities (AH) - Gen Ed Requirement
	2	PHY 1030	General Physics I	3	Science No Lab General Education Requirement; Critical Course	PHYS 205 & 205L	University Physics I (4 credits)*	4	Biological and Physical Science – with Lab (BP) - Gen Ed Requirement
	2	MAT 2420	Calculus II	4	Program Requirement; Critical Course	MATH 242	Calculus II	4	Math and Basic Science Requirement
	2	EGL 1020	Composition II: Writing About Literature	3	English - General Education Elective	ENGL 102	Freshman Composition II	3	English Composition (EC) - Gen Ed Requirement
	2	XXX	Social Science - General Education Requirement	3	Social Science - General Education Requirement	XXXX	Social and Behavioral Sciences (SB)	3	Social and Behavioral Sciences (SB) - Gen Ed Requirement
	2	PHL 1090	Introduction to Logic	3	Arts/Humanities - General Education Requirement	PHIL 109	Introduction to Critical Thinking	3	Critical Thinking (CT) - Gen Ed Requirement
Second Year	3	PHY 2030	General Physics II	4	Program Requirement	PHYS 206 & 206L	University Physics II (4 credits) & Lab (1 credit)	5	Math and Basic Science Requirement
	3	CHM 2000	General Chemistry for Engineers	4	Science w/ Lab - General Education Requirement	CHEM 110 & 110L	General Chemistry for Engineers (3 credits) & Lab (1 credit) *	4	Biological and Physical Science – Lab Science (BP)
	3	EGR 2200	Statics **OR**	3	Program Elective	CEGR 202	Statics	3	Program Elective
		EGR 2440	Digital Logic Design			EEGR 211	Introduction to Digital Logic		
	3	ECN 1030	Principles of Macroeconomics	3	Social Science - General Education Requirement	ECON 211	Principles of Economics I	3	Social and Behavioral Sciences (SB) - Gen Ed Requirement
	3	EGR 2450	Electronic and Digital Circuit Laboratory **OR**	2-3	Program Elective	EEGR 203	Introduction to Electrical Laboratory **OR**	3	Low-Level Electrical Engineering Elective
		EGR 2300	Materials Science for Engineers and Scientists			IEGR 309	Materials Engineering		Low-Level Industrial Engineering Elective
	3	PHY 2040	General Physics III	4	Program Requirement	XXXX	Approved Free Elective	3	Mechatronics Engineering Elective
	3	MAT 2430	Calculus III	4	Program Requirement	MATH 243	Calculus III	4	Math and Basic Science Requirement
	4	MAT 2460	Differential Equations	4	Program Requirement; Critical Course	MATH 340	Introduction to Differential Equations	3	Math and Basic Science Requirement
	4	EGR 2050	Signals and Systems: Modeling, Computation, and Analysis	3	Program Requirement	EEGR 221	Signals and Systems	3	Low-Level Electrical Engineering Elective
	4	EGR 2210	Dynamics **OR**	3-4	Program Elective	CEGR 302	Dynamics **OR**	3-4	Low-Level Civil Engineering Elective
		EGR 2030	Circuit Analysis **OR**			EEGR 202	Electric Circuits **OR**		Low-Level Electrical Engineering Elective
		EGR 2200	Solid Mechanics			CEGR 202	Statics		Low-Level Civil Engineering Elective
			PGCC Program Total Credits	**65**					
			Maximum Acceptable LCC Transfer Credits	**60**					

	Semester	MORGAN STATE UNIVERSITY COURSES at LCC (Some courses may be hybrid but not online)				Electrical Engineering Elective Requirement		18 Credits
Junior Year	1	EEGR 305	Electromagnetic Theory and Applications	4	Engineering Core Requirements	Electrical Engineering - Computer Engineering Track		
	1	EEGR 322	Discrete Systems	3	Engineering Core Requirements	Course Number	Course Title	Credits
	1	EEGR 215	Electronic Materials and Devices	4	Engineering Core Requirements	EEGE 243	Computer Architecture	3

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	2	**EEGR 105**	Introduction to Electrical & Computer Engineering	3	Engineering Core Requirement	**EEGR 463**	Digital Electronics	3	
	2	**EEGR 317**	Electronc Circuits	4	Engineering Core Requirements	**EEGR 4XX**	400-Level ECE Elective*	3	
	2	**MATH 331**	Applied Probability and Statistics for Electrical Engineers	3	Engineering Core Requirements	**EEGR 4XX**	400-Level ECE Elective*	3	
	2	**EEGR 4XX**	400-Level ECE elective	3	Electrical Engineering Elective Requirement	**XXXX**	Approved Elective	3	
		XXXX	Social and Behavioral Sciences (SB)	3	Social and Behavioral Sciences (SB) - Gen Ed Requirement	**XXXX**	Approved Elective	3	
	2	**XXXX**	Physical Education Activity or Financial Literacy (FIN 101) or Special Topics in Mindfulness (MIND [illegible])	1	University Requirement	*Denotes: Two EEGR electives must be selected from the following: EEGR 409 - C Programming Applications, EEGR 412 - Computer Organization, EEGR 415 - Java			
	3	**EEGR 390**	Principles of Design	3	Engineering Core Requirements	In addition, EEGR 498, EEGR 499 and Engineering Graduate offerings that relate to Computer Engineering and INSS and COSC electives will be considered on a case by case			
	3	**EEGR 490**	Senior Design Project I	2	Engineering Core Requirements	ECE Department written approval is required prior to registering for any of these offerings outside of the EEGR listings.			
	3	**EEGR 4XX**	400-Level ECE elective	3	Electrical Engineering Elective Requirement	**Electrical Engineering - Cyber Security Track**			
Senior Year	3	**EEGR 4XX**	400-Level ECE elective	3	Electrical Engineering Elective Requirement	**EEGR 410**	Introduction to Networks	3	
	3	**HIST 350**	Introduction to the African Diaspora	3	Contemporary and Global Issues, Ideas, and Values (CI) - Gen Ed Requirement	**EEGR 480**	Introduction to Cyber Security	3	
	4	**EEGR 400**	Introduction to Professional Practice	1	Engineering Core Requirements	**EEGR 481**	Introduction to Network Security	3	
	4	**EEGR 491**	Senior Design Project II	2	Engineering Core Requirements	**EEGE 482**	Introduction to Cyptography	3	
	4	**EEGR 4XX**	400-Level ECE elective	3	Electrical Engineering Elective Requirement	**EEGR 483**	Introduction to Security Management	3	
	4	**EEGR 4XX**	400-Level ECE elective	3	Electrical Engineering Elective Requirement	**XXXX**	Approved Elective	3	
	4	**XXXX**	Arts and Humanities (AH) Elective	3	Arts and Humanities (AH) - Gen Ed Requirement				
			Total Credits	**54**					

All students, including transfer students, are required to pass Senior Level Comprehensive Departmental Examiniation to be eligible for graduation.

Notes	*Advanced Courses in Physics, Chemistry, Biology, Mathematics, Computer Science, Industrial and Civil Engineering, Business program, or other relevant courses deemed appropriate for student's program of study.
	Requirements for the Electrical Engineering major include through preparation in mathematics, physics, and engineering. Elective courses must include both Electrical and computer Engineering courses and approved courses (i.e. 300 level or above) outside of the department. Students
	Note: Students are required to repeat courses in the major which they did not pass with a “C” or higher. These are courses beginning in EEGR, CEGR, and IEGR. If you receive a grade lower than “C” in an elective course in the major, you have the following options: (1) Retake the course