

http://www.csee.umbc.edu/programs/undergraduate/computer-engineering-bs/Dr. Chuck LaBerge, Undergraduate Program Director chuck.laberge@umbc.edu



University of Maryland, Baltimore County College of Engineering and Information Technology

(G = CMPE Gateway course; Fall = CMPE course only offered in Fall; Spring = CMPE course only offered in Spring; Both = CMPE course offered both semesters)

CMPE Curriculum—Electronic Systems	
First Semester	Second Semester
That believed	CMSC 202: Computer Science II
MATH 151: Calculus I	CNISC 202. Computer science II
Wittin 131. Culculus I	CMSC 203: Discrete Structures
CHEM 101 4	CNISC 203. Discrete structures
CHEN 101	MATH 152: Calculus II (G)
CMSC 201: Computer Science I (G)	WITTH 132. Culculus II (G)
Civide 201. Computer belence 1 (d)	ENES 101: Intro to Engineering Science (G)3
PHYS 121: Physics I	ElvEs 101. mao to Engineering science (G)
11110 121.1 Injuited 1	ENGL 100:
Total16	2.02.100
1000	Total
Third Semester	Fourth Semester
Time Semester	1 out the Schiester
PHIL 251: Ethical Issues in Science and Eng'ing 3	CMPE 306 Basic Circuit Theory (Both)
11112 231. Danieur issues in Science and Eng ing	CMI E 500 Busic Circuit Theory (Both)
MATH 251: Multivariable Calculus	MATH 225: Intro to Differential Eqs
Wittii 231. Waitivailable Calculus	WITTI 223. Into to Differential Eqs
PHYS 122: Physics II (G)	CMPE 310: Systems Design and Prog (Both)4
1111 5 122. 1 hysics if (G)	CWI E 510. Systems Design and 110g (Both)
CMPE 212: Prin. of Digital Design (Both)(G + 3.0)4	CMSC 341: Data Structures (Both)
Civil E 212. Tim. of Digital Design (Both)(G + 5.0)4	CMSC 341. Data Structures (Both)
Total	Total
Fifth Semester	Sixth Semester
Titti Semester	GEP
2 GEP	GEI
	CMPE 320: Prob. & Random Processes (Spring)3
MATH 221: Linear Algebra	(a _f ₈)
	CMSC 421: Operating Systems (Both)
CMPE 314: Electronic Circuits (Both) 4	enise izi. operaning systems (Boar)
Cin 2011. Biotaonio enomic (20m)	CMPE 415: FPGA Arch and App. (Spring) 3
CMPE 311: C Prog and Embedded Systems (Fall) 3	eni z vie i i ei i i vi unu i ipp. (epimg)
eni z z m z ma zmatutu z jatema (r um) z	ENGL 393: Technical Communication
	El (GE 3/3). Technical Communication
Total	Total
1041	10
Seventh Semester	Eighth Semester
2 GEP	2 GEP
2 021	2 051
CMPE 315: Principles of VLSI (Fall)	CMPE 451 Capstone II (Spring)
Civil E 313. Triniciples of A Est (Tun)	Child to respective in (Spring)
CMSC 411: Computer Architecture (Both)	2 x List A/List B electice
Cirio III. Computer ritemiteture (Botti)	Z A BISCH B DICCIOC
CMPE 450 Capstone I (Fall)	
2.111 L 130 Cupsione I (I un)	
List A/List B Elective	Total
Distribust D Dissurs	10
Total	
1.77.41	1



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CMPE CurriculumCommunications Track	
First Semester	Second Semester
	CMSC 202: Computer Science II
MATH 151: Calculus I	
	CMSC 203: Discrete Structures
CHEM 101	
	MATH 152: Calculus II (G)4
CMSC 201: Computer Science I (G)4	, ,
	ENES 101: Intro to Engineering Science (G)3
PHYS 121: Physics I	
	ENGL 100
Total	
	Total
Third Semester	Fourth Semester
PHIL 251	CMPE 306 Basic Circuit Theory (Both)4
ACCEPTAGE ACTION OF THE COLUMN	NA TYL 207 1
MATH 251: Multivariable Calculus	MATH 225: Intro to Differential Eqs
DILVC 122: Physica II (C)	CMDE 210. Sentana Design and Drag (Sening)
PHYS 122: Physics II (G)	CMPE 310: Systems Design and Prog (Spring)4
CMPE 212: Prin. of Digital Design (Both)(G + 3.0) 4	CMSC 341: Data Structures (Both)
CMTE 212. Filli. of Digital Design (Both)(O + 5.0) 4	CMSC 341. Data structures (Botti)
Total	Total
Fifth Semester	Sixth Semester
GEP	2 x GEP6
MATH 221: Linear Algebra	CMPE 320: Prob. & Random Processes (Spring)3
CMPE 314: Electronic Circuits (Fall)	CMSC 421: Operating Systems (Both)
CMPE 311: C Prog and Embedded Systems (Fall) 3	CMPE 330: Wave and Signal Trans. (Spring)3
CMPE 323: Signals and System (Fall)	ENGL 393: Technical Communication3
m . 1	
Total	T-4-1
Seventh Semester	Total 18
	Eighth Semester
GEP	GEP
CMSC 411: Computer Architecture (Both	CMPE 451 Capstone II (Spring)
Civise 411. Computer Aremtecture (Botti	CWI E 451 Capsione II (Spring)
CMPE 450 Capstone I (Fall)	2 x List A/List B elective
2 Tyri L 750 Capsione I (Fan)	2 A Dist A/Dist B CICCUVC
List A/List B electives x 2	
District Description A. Z	Total
Total	
17	

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CMPE List A:

CMPE315 Principles of VLSI (elective for Comm track students only)

CMPE321 Communication Laboratory

CMPE323 Signals and Systems (elective for Electronic System track students only)

CMPE330 Wave and Signal Transmission (elective for Electronic System track students only)

CMPE415 FPGA Architecture and Applications (elective for Comm track students only)

CMPE419 Arithmetic Algorithms

CMPE422 Digital Signal Processing

CMPE423 Principles of Communication Engineering

CMPE447 Analog Integrated Circuit Design

CMPE491 Special Topics in Computer Engineering

CMSC426 Principles of Computer Security

CMSC479 Introduction to Robotics

CMSC481 Computer Networks

CMPE List B:

CMSC345 Software Design and Development

CMSC422 Operating System Design

CMSC425 Performance Analysis of Computer Systems

CMSC431 Compiler Design Principles

CMSC435 Computer Graphics

CMSC441 Design and Analysis of Algorithms

CMSC442 Information and Coding Theory

CMSC443 Cryptology

CMSC445 Numerical Computations

CMSC482 Computer Systems Security

CMSC483 Parallel and Distributed Processing

CMSC486 Mobile Radio Communications

ENME403 Automatic Controls