


Electrical & Computer Engineering

Associate in Science

 MassBay courses are offered days, evenings, weekends, and online. View the complete list of online courses at www.massbay.edu/uploadedFiles/online.pdf. Check current course availability at www.massbay.edu/courses

DIVISION OF SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS

This comprehensive program provides students an overview of the electrical and computer engineering field. Students explore such areas as computer hardware, digital electronics, computer science, and engineering.

Upon successful completion, the Associate in Science Degree in Electrical and Computer Engineering is awarded.

PROGRAM FOOTNOTES

Computer Science Electives: CS 120 Programming I, CS 212 Systems Programming with "C," CS 116 Fundamentals of Cyber Security

Humanities Electives: Art, Communications, Film, Foreign Language, Humanities, Literature, Music, Oral Communication, Philosophy, Photography, Sign Language, Theater Arts

Social Science Electives: Anthropology, Economics, Geography, Government, History, Law and Society (LA 230), Psychology, Sociology

This program qualifies as an Alternative Transfer Agreement (MassTransfer) with select public institutions in Massachusetts. For more information, visit www.mass.edu/masstransfer.

COURSE	COURSE TITLE	CREDITS
<i>First Year Semester 1</i>		
CH 110	Principles of Chemistry I w/ Lab	4
CS 110	Introduction to Computer Science	4
CT 100	Critical Thinking	3
EE 120	Digital Electronics	4
EN 101	Freshman English I	3
MA 200	Calculus I	4
	credits:	22
<i>First Year Semester 2</i>		
CH 120	Principles of Chemistry II w/ Lab	4
EE 125	Digital Computer Systems	4
EN 102	Freshman English II	3
MA 201	Calculus II	4
	Computer Science Elective	4
	credits:	19
<i>Second Year Semester 1</i>		
EE 110	Circuit Analysis I	4
EE 150	Microprocessors	4
MA 202	Calculus III	4
PY 103	Engineering Physics I w/ Lab	4
	Humanities Elective	3
	Social Science Elective	3
	credits:	22
<i>Second Year Semester 2</i>		
EE 115	Circuit Analysis II	4
EE 231	Hardware Organization and Design	4
MA 211	Differential Equations	4
PY 104	Engineering Physics II w/ Lab	4
	Humanities Elective	3
	or	
	Social Science Elective	3
	credits:	19
	Total Credits:	82

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