B.S. in Computer Science and **B.S.** in Applied Physics

(134 credits)

First Year		
1st Semester		Credits
CS 100	Roadmap to Computing	3
PHYS 111	Physics I	3
PHYS 111A	Physics I Lab	1
MATH 111	Calculus I	4
ENGL 101	English Composition: Introduction to Academic Writing	3
CHEM 125	General Chemistry I	3
CHEM 125A	General Chemistry Lab I	1
FYS SEM	First-Year Student Seminar	0
	Term Credits	18
2nd Semester		
CS 113	Introduction to Computer Science I	3
PHYS 121	Physics II	3
PHYS 121A	Physics II Lab	1
MATH 112	Calculus II	4
CHEM 126	General Chemistry II	3
CHEM 126A	Gen Chemistry Lab II	1
	Term Credits	15
Second Year		
1st Semester		
CS 114	Introduction to Computer Science II	3
MATH 211	Calculus III A	3
PHYS 234	Physics III	3
PHYS 231A	Physics III Lab	1
MATH 333	Probability and Statistics	3
ENGL 102	English Composition: Introduction to Writing for Research	3
	Term Credits	16
2nd Semester		
CS 280	Programming Language Concepts	3
MATH 222	Differential Equations	4
MATH 335	Vector Analysis	3
or MATH 328	or Mathematical Methods for Scientists and Engineers	
PHYS 335	Introductory Thermodynamics	3
CS 241	Foundations of Computer Science I	3
	Term Credits	16
Third Year		
1st Semester		
CS 288	Intensive Programming in Linux	3
CS 301	Introduction to Data Science	3
OPSE 310	Virtual Instrumentation	3
PHYS 430	Classical Mechanics I	3
PHYS 432	Electromagnetism I	3
	Term Credits	15
2nd Semester	Detakan Outan Desim O.M.	
CS 331	Database System Design & Mgmt	3

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