CSB/SJU PHYSICS	& ENGINEERING
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		PHYSICS MA	PHYSICS MAJOR		ENGINEERING PHYSICS MAJOR		
Year	Semester	Courses and co	edits		Courses and cre	dits	
	Fall	Foundations of Physics 1	PHYS 191	4	Foundations of Physics 1	PHYS 191	4
1	Fall	Calculus 1	MATH 119	4	Calculus 1	MATH 119	4
	Spring	Foundations of Physics 2	PHYS 200	4	Foundations of Physics 2	PHYS 200	4
		Calculus 2	MATH 120	4	Calculus 2	MATH 120	4
					Introduction to Engineering	PHYS 155	2
	Fall	Foundations of Physics 3	PHYS 211	4	Foundations of Physics 3	PHYS 211	4
		Intermediate Physics Lab	PHYS 332	1	Intermediate Physics Lab	PHYS 332	1
2		Linear Algebra and Differential Equations	MATH 239	4	Linear Algebra and Differential Equations	MATH 239	4
	Spring	Modern Physics	PHYS 320	4	Modern Physics	PHYS 320	4
		Intermediate Lab	PHYS 332	1	Intermediate Lab	PHYS 332	1
					CAD Prototyping and Testing	PHYS 255	2
3	Fall	Physical Mechanics	PHYS 339	4	Physical Mechanics	PHYS 339	4
		Advanced Physics Lab	PHYS 370	1	Advanced Physics Lab	PHYS 370	1
		Multivariable Calculus	MATH 305	4	Multivariable Calculus	MATH 305	4
	Spring	Advanced Lab	PHYS 370	1	Advanced Lab	PHYS 370	1
		Electricity & Magnetism	PHYS 341	4	Problem Solving with Matlab	PHYS 355	2
	Fall	Senior Research	PHYS 372	1	Senior Design Project	PHYS 374	1
		Quantum Mechanics	PHYS 346	4			
4	Spring	Senior Thesis	PHYS 373	1	Senior Thesis	PHYS 373	1
		Comprehensive Exam	PHYS 3XX	0	Comprehensive Exam	PHYS 3XX	0
		Thermodynamics	PHYS 343	2	Thermodynamics	PHYS 343	2
		Statistical Mechanics	PHYS 344	2			
Any Year	Any Semester				Physics electives	PHYS 3	4
		Physics electives	PHYS 3	6	Digital Electronics	PHYS 217	2
					Analog Electronics	PHYS 338	2
	2320101				General Chemistry	CHEM 125	4
					Chemistry Lab	CHEM 201	1
			Physics	44		Physics	42

	Physics:	44
	Mathematics:	16
Physics	Major - Total credits:	60

Physics:	42
Mathematics:	16
Chemistry:	5
Engineering Physics Major - Total credits:	63

Physics Elective Courses (2 credits each)

Fortran and C++ for Scientists (322), Optics (367), Experimental Optics (357),
Nuclear Physics (363), Applied Nuclear Physics (353), Elementary Particle Physics (365),
Advanced Electronics (358), Topics in Applied Physics (360), Topics in Modern Physics (362),
Relativity (366), Astrophysics (364), Space Physics (368)

ENGINEERING OPTIONS

Pre-Engineering (2/2)

Transfer to Engineering school for B.S. in Engineering

Dual Degree (3/2)

Transfer to Engineering school
(WU-STL or elsewhere)
for B.S. in Engineering +
B.A. in Engineering Physics
from CSB/SJU

Engineering (4/0 or 4/2)

Job in engineering, or graduate school for M.S. or Ph.D. in Engineering after CSBSJU degree in Physics or Engineering Physics