

**B.S. APPLIED PHYSICS
OPTICAL SCIENCE & ENGINEERING OPTION
(120 credits)
ACADEMIC CURRICULUM AND CHECK LIST**

Name: _____

NJIT ID number: _____

FIRST YEAR (FALL)			FIRST YEAR (SPRING)		
		Cr			Cr
<i>HUM</i>	101	3	PHYS	114	3
PHYS	111	3	PHYS	121	3
PHYS	111A	1	PHYS	121A	1
MATH	111	4	MATH	112	4
CS	113 or 115	3	CHEM	122 or 126	3
CHEM	121 or 125	3	CHEM (LAB)	124	1
Freshman	Seminar	0			
	Term Cr	17		Term Cr	15
SECOND YEAR (FALL)			SECOND YEAR (SPRING)		
		Cr			Cr
<i>HUM</i>	102	3	MATH	222	4
PHYS	234	3	MATH	328	3
PHYS	231A	1	PHYS335 or R315 THERMODYNAMICS	335 / R315	3
MATH	213	4	UPPER LEVEL COM/ENG/HIST/LIT/PHIL/STS/TH	GER	3
MATH (1-credit Stats GER, or 3-credit MATH 333)	225	1			
CULTURAL HISTORY GER	GER	3			
	Term Cr	15		Term Cr	13
THIRD YEAR (FALL)			THIRD YEAR (SPRING)		
		Cr			Cr
<i>Optical Science and Engineering Option</i>			<i>Optical Science and Engineering Option</i>		
OPSE	301	3	OPSE	402	3
OPSE	310	3	PHYS	418	3
PHYS	432	3	PHYS	433	3
PHYS	430	3	PHYS	446*	3
UPPER LEVEL COM/ENG/HIST/LIT/PHIL/STS/TH	GER	3	PHYS / OPSE	ELECTIVE	3
	Term Cr	15		Term Cr	15
FOURTH YEAR (FALL)			FOURTH YEAR (SPRING)		
		Cr			Cr
<i>Optical Science and Engineering Option</i>			<i>Optical Science and Engineering Option</i>		
PHYS442 or R404 QUANTUM MECHANICS	442 / R404	3	PHYS	450	3
TECHNICAL	ELECTIVE	3	FREE	ELECTIVE	3
MANAGEMENT/SS GER	GER	3	PHYS / EE	ELECTIVE	3
TECHNICAL	ELECTIVE	3	TECHNICAL	ELECTIVE	3
PHYS / OPSE / EE	ELECTIVE	3	CAPSTONE SEMINAR GER	GER	3
	Term Cr	15		Term Cr	15

*Out of sequence, may be offered in Fall semester
Updated: 05-04-2018

Total Credits 120