

# **BS in Physics/Engineering Suggested Schedule**

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<u>Fall</u>	Spring	<u>Fall</u>	<u>Spring</u>	<u>Fall</u>	<u>Spring</u>	Fall (x2)	Spring (x2)
Physics I PHYS 2220/5 (6 cr.)	Physics II PHYS 2230/5 (6 cr.)	Physics III PHYS 3010 (4 cr.)	Chemistry I CHEM 1110/05 (5 cr.)	Classical Mech. PHYS 3220 (4 cr.)	PHYS Elective PHYS 3### (4 cr.) See list on back.	En	<u> </u>
Calculus I MATH 2215 (5 cr.)	Calculus II MATH 2216 (5 cr.)	Calculus III MATH 2217 (5 cr.)	Rowan/Rutgers PHYS 3345 (4 cr.)	GAH or GSS H, I, or R1/R2 (4 cr.)	GIS H, I, or R1/R2 (4 cr.)	Engineering Courses	gineering
Rhetoric and Composition FRST 2120 (4 cr.)	Programing & Problem Solving CSCI 2101 (4 cr.)	All but ECE at Rowan PHYS 2300 (4 cr.)	NJIT MATH 3328 (4 cr.)	GAH or GSS H, I, or R1/R2 (4 cr.)	ASD H, I, or R1/R2 (4 cr.)	**	Courses at
GAH or GSS 1st Yr. Seminar (4 cr.)	GAH or GSS H, I, or R1/R2 (4 cr.)	ECE (Odd) PHYS 3120 (4cr.) *Engineering	**See Notes (Even) PHYS 2410 (2 cr.) or (Odd) PHYS 3240 (4 cr.)	Rowan ECON 1400 (4 cr.) Rutgers/NJIT	**See Notes (Even) PHYS 2410 (2 cr.) or (Odd) PHYS 3240 (4 cr.)	at NJIT, Rowan L	Engineering Courses at NJIT, Rowan University, or Rutgers University
(Natas)		Graphics GEN 2180 (4 cr.)	***ECE (Odd) MATH 2225 (4cr.) ***Else	Notes on back (ECON at other Univ.)	***ECE (Odd) MATH 2225 (4cr.) ***Else	Rowan University, or	Jniversity,
Notes: ECE = Electrical or C	omputer Engineering		(Even) PHYS 3200 (4cr.)	ECE (Odd) PHYS 3120 (4cr.)	(Even) PHYS 3200 (4cr.)	or Rutgers	or Ruto
*Completed in Fall of	2nd or 3rd Year		Physics Choice*** See Back	*Engineering Graphics	Physics Choice*** See Back	•	yers ∪₁
**Need either PHYS 2	2410 <u>or</u> 3240.			GEN 2180 (4 cr.)		University	niversi
***Completed in Sprir	ng of 2nd <u>or</u> 3rd Year					፟፟፟	₹
***Physics Choice: E0	e PHYS 3110 or 3340			Colloquium -	(PHYS 2600)		
General Comment: Summer courses may need to be taken to get all coursework in.					Engine	l ering Seminar - (ENGN	4600)
19 Cr.	19 Cr.	17-21 Cr.	15-21 Cr.	16-20 Cr.	16-20 Cr.	12+ Cr.	12+ Cr.

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## **Notes on Additional Requirements:**

- All programs, except ECE at Rowan, require Statics.
- Rowan requires ECON 1400. Generally taken in 3rd. Yr. Fall/Spring.
- Rutgers and Rowan BME require BIO 1200/5 and 1400/5,
  - Can be completed at other Univ. or Summer course at Stockton
- Rutgers EnvE requiers Chemistry II
- Rutgers ME/AE/CE/BME and Rowan BME require Chemistry IV

#### **Course Lists**

Electives for ECE: PHYS 3030, 3200, 3240, 3340, 3350, 3370, 3380, 3390

Electives for Non-ECE: PHYS 3030, 3110 (If not used for Physics Choice), 3120, 3240, 3340 (If not used for Physics Choice), 3350, 3370, 3380, 3390

PHYS 3030 Biomedical Physics - Spring Even

PHYS 3110 Electronics - Spring Even

PHYS 3120 Electrical Circuits - Fall Odd

PHYS 3200 Mech. Of Mats. - Spring Even

PHYS 3240 Mod. And Sims. - Spring Odd

PHYS 3340 Optics - Spring Odd

PHYS 3350 Mathematical Physics - Fall Even PHYS 3370 Electricity and Mag.- Spring Even

PHYS 3380 Thermal Physics - Fall Even

PHYS 3390 Intro. Quantum Mech. - Spring Odd

## Comments depending on where you plan on going:

 Physics Choice: ECE must take PHYS 3110. Others can take PHYS 3110 or 3340

## **Writing Requirements Notes:**

## **Rutgers University and NJIT:**

- three W1/W2 courses at Stockton (including FRST 2120).
- mandatory senior project counted as 3000+level W2 and "V" attribute.

## **Rowan University:**

- two W1/W2 courses at Stockton (including FRST 2120).
- junior/senior clinics counted as 3000+level W2s and "V" attribute.

## **ASD Requirements (15-16 credits):**

Rutgers University	Rowan University	NJIT (BS in Mech. E)
GEN 2180 Engineering Graphics (A)	GEN 2180 Engineering Graphics (A)	GEN 2180 Engineering Graphics (A)
CSCI 2101 Prog and Prob Solving	CSCI 2101 Prog and Prob Solving	CSCI 2101 Prog and Prob Solving
ASD Elective (H, I, V, R1/R2)	ASD Elective (H, I, V, R1/R2)	ASD Elective (H, I, V, R1/R2)
Engineering Economics will be transferred back to Stockton as ASD.	ECON 1400 Intro Microeconomics - requires a POI. (ECON program agreed to offer POI to dual-degree engineering program students who wish to take ECON 1400 but did not take ECON 1200)	Take a broad course on Economics and it will be transferred back to Stockton as ASD.

G-course	Complete?	Course
GAH		
GAH		
FRST 2120		
GIS		
GSS		
GSS		

At-some- distance*	Complete?	Course
ASD		GEN 2180
ASD		CSCI 2101
ASD		Econ Course
ASD		

<sup>\*</sup>Must be 16 credits total.

Attributes	Complete?	Course
А		GEN 2180
Н		
I		
R1		
R2		
V		At/After Stockton

Writing	Complete?	Course
W1 (1st Yr)		FRST 2120
W1/W2		PHYS 3110/40
W1/W2		
W1/W2 (3000+)		At/After Stockton

Quant.	Complete?	Course
Q1 (1st Yr)		Calc I
Q1/Q2		Calc II
Q2		Physics I



**Program: Applied Physics**