

## BS in Physics Suggested Schedule

<u>Fall</u>		<u>Spring</u>		<u>Fall</u>		<u>Spring</u>		<u>Fall</u>		<u>Spring</u>					
<b>Physics I</b> (PHYS 2210/5-Q1) 6 cr.	<b>Physics II</b> (PHYS 2230/5-Q1) 6 cr.	<b>Physics III</b> (PHYS 3010) 6 cr.	<b>Math Meth.</b> (PHYS 3345-Q1) 4 cr.	<b>E&amp;M / QM</b> (PHYS 3370/90-Q2) 4 cr.	<b>Class Mech.</b> (PHYS 3220-Q1) 4 cr.	<b>QM / E&amp;M</b> (PHYS 3390/70-Q2) 4 cr.	<b>Opt / Therm</b> (PHYS 3340-W2/80-Q2) 4 cr.	<b>Calc I</b> (MATH 2215-Q1) 5 cr.	<b>Calc II</b> (MATH 2216-Q1) 5 cr.	<b>Calc III</b> (MATH 2217-Q1) 5 cr.	<b>Electronics</b> (PHYS 3110-W2&Q2) 4 cr.	<b>Cognate</b> (@@@ #) # 4 cr.	<b>Therm / Opt</b> (PHYS 3380-Q2/40-W2) 4 cr.	<b>Cognate</b> (@@@ #) # 4 cr.	<b>Cognate</b> (@@@ #) # 4 cr.
<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>Cognate</b> (@@@ #) # 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>Cognate</b> (@@@ #) # 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>FRST/G</b> Seminar or W1 4 cr.	<b>G/FRST</b> A, H, I, R, and/or V 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.	<b>ASD/G</b> A, H, I, R, and/or V 4 cr.
Colloquium and Research Methods - (PHYS 2600 and PHYS 4620) - Need 4 semesters of each												Should be working on your Senior Project. See Note below.			
15(19) Cr.		15(19) Cr.		17 Cr.		16 Cr.		16 Cr.		16 Cr.		16 Cr.		16 Cr.	

**Notes:**

- All Q's covered in degree courses and all but one W2 covered in the degree courses.
- The ASD/G courses in the First Year (Dotted outlines) are optional.
- You need one course of PHYS 4800 or PHYS 4900 by the time your graduate. Suggestion: Get this done Fall of your 4th year.
  - Interested students should look into applying for the Washington Internship Program and/or International Internships.

## BS in Physics Course Schedule

### **Fall (Even)**

PHYS 2300: Statics (Q2)

PHYS 3350: Mathematical Physics (Q1)  
(Not offered past few years)

PHYS 2600: Colloquium  
PHYS 4620: Research Methods

### **Fall (Odd)**

PHYS 2300: Statics (Q2)

PHYS 3120: Electrical Circuits (Q2)

PHYS 2600: Colloquium  
PHYS 4620: Research Methods

### **Spring (Even)**

PHYS 3240: Modeling and Simulation in  
Physics (Q2)

PHYS 2300: Problem Solving Using  
Matlab (Q2)

PHYS 2600: Colloquium  
PHYS 4620: Research Methods

### **Spring (Odd)**

PHYS 3030: Biomedical Physics (IMBN)

PHYS 3200: Mechanics of Materials (Q2)

PHYS 2300: Problem Solving Using  
Matlab (Q2)

PHYS 2600: Colloquium  
PHYS 4620: Research Methods

## 5 Cognates

- **2 Cognates** must be of 2000 or above
- **3 Cognates** must be of 3000 or above, and *2 must be from the following list*:
  - PHYS 3030 Biomedical Physics
  - PHYS 3120 Electrical Circuits
  - PHYS 3240 Modeling and Simulation in Physics
  - PHYS 3350 Mathematical Physics

### **Outside of PHYS Suggestions:**

MATH 3328: Differential Equations (All Semesters)  
 MATH 4432: Complex Analysis (Spring)  
 MATH 4451: Probability and Statistics I (Fall)  
 MATH 4452: Probability and Statistics II (Spring)  
 MATH 4461: Numerical Analysis (Fall)  
 MATH 4491: Partial Differential Equations (Spring-Even)

## Check List

G-course	Complete?
GAH	
GAH	
GEN	
GIS	
GNM	
GNM	
GSS	
GSS	

Attributes	Complete?
A	
H	
I	
R1	
R2	
V	

At-some-distance	16 Credits Complete?
ASD	
ASD	
ASD	
ASD	

Writing	Complete?
W1 (1st Yr)	
W1/W2	
W1/W2	
W1/W2 (min 3000)	

Quant.	Complete?
Q1 (1st Yr)	
Q1/Q2	
Q2	