

## **Required Courses:**

### **Physics:**

<b>Course #</b>	<b>Course Description</b>	<b>Credits</b>
3650 : 291	Elementary Classical Physics I	4
3650 : 292	Elementary Classical Physics II	4
3650 : 301	Elementary Modern Physics	3
3650 : 322	Intermediate Lab I	3
3650 : 323	Intermediate Lab II	3
3650 : 340	Thermal Physics	3
3650 : 350	Modeling and Simulation	4
3650 : 431	Mechanics I	3
3650 : 436	Electromagnetism I	3
3650 : 441	Quantum Physics I	3

### **Mathematics:**

<b>Course #</b>	<b>Course Description</b>	<b>Credits</b>
3450 : 221	Anal. Geom-Calc I	4
3450 : 222	Anal. Geom-Calc II	4
3450 : 223	Anal. Geom-Calc III	4
3450 : 335	Introduction to Differential Equations	3

### **Chemistry:**

<b>Course #</b>	<b>Course Description</b>	<b>Credits</b>
3150 : 151	Principles of Chemistry I	3
3150 : 152	Principles of Chemistry I Lab	1
3150 : 153	Principles of Chemistry II	3

### **Computer Science:**

<b>Course #</b>	<b>Course Description</b>	<b>Credits</b>
3460 : 209	Introduction to Computer Science	4

### **General Studies:**

<b>Course #</b>	<b>Course Description</b>	<b>Credits</b>
5540 : ***	Physical Education	0.5 + 0.5
3300 : 111	English Composition I	4
3300 : 112	English Composition II	4
7600 : 105	Introduction to Public Speaking	3
	or	
7600 : 106	Effective Oral Communication	3
3400 : 210	Humanities In West Trad I	4
	2 classes in Social Science	3 or 4 ea.
	2 classes in Humanities	3 or 4 ea.
	2 classes in Area Studies	2 each

14 total

### **Second Language:**

Must be from approved programs (e.g. French, German, Spanish, Sign Language, etc.). Consult advisor for approved program and course list.

***Electives:***

<b>Course #</b>	<b>Course Description</b>	<b>Credits</b>
3650 : 406	Optics	3
3650 : 432	Mechanics II	3
3650 : 437	Electromagnetism II	3
3650 : 442	Quantum Physics II	3
3650 : 451	Advanced Lab I	3
3650 : 452	Advanced Lab II	3
3650 : 470	Introduction to Solid-State Physics	3
3650 : 481	Methods of Mathematical Physics I	3
3650 : 482	Methods of Mathematical Physics II	3