BS Physics - 4 year plan

		Fall	Pre-req courses	units	Term offered			Spring	Pre-req courses	units	Term offered
Year 1	MATH 2210	Calculus I	MATH 1401 or satisfactory score on placement exam	4	Fall & Spring		MATH 2220	Calculus II	Math 2210 with grade of C- or higher	4	Fall & Spring
	PHYS 1500	**Tools for Physicists**	none	**3**	**Fall**		**PHYS 2500**	**General Physics I**	MATH 2210 and co-req of MATH 2220	**4**	**Fall & Spring**
	CHEM 2100	General Chemistry I	1 yr HS chemistry or equivalent AND pre- or co-req of one of Math 1301, 1401, 1601, 2210, or 2220	4	Fall & Spring		**PHYS 2500L**	**General Physics I Lab**	MATH 2210 and co-reqs of MATH 2220 & PHYS 2500	**1**	**Fall & Spring**
	CHEM 2100L	General Chemistry I Laboratory	co-req of CHEM 2100	1	Fall & Spring			GE courses		6	Fall & Spring
		GE courses		3	Fall & Spring						
		Total units		**15**				Total units		**15**	
Year 2	MATH 2310	Applied Linear Algebra	Math 2210 with grade of C- or higher, and Math 2220 as pre- or co-req	4	Fall & Spring		MATH 2320	Multivariable Calculus	Math 2220 and Math 2310 both with grade of C- or higher	4	Fall & Spring
	PHYS 2510	**General Physics II**	PHYS 2500 & MATH 2220	**4**	**Fall & Spring**		**PHYS 2600L**	**Introduction to Electronics**	PHYS 2210 & MATH 2310	**1**	**Spring**
	PHYS 2510L	**General Physics II Lab**	PHYS 2500, MPHYS 2500L, & MATH 2220 and co-req of PHYS 2510	**1**	**Fall & Spring**		**PHYS 2700**	**Modern Physics**	MATH 2310, PHYS 1500, PHYS 2510, PHYS 2510L & a co-req of MATH 2320	**3**	**Spring**
		GE courses		6	Fall & Spring			GE courses		6	Fall & Spring
		Total units		**15**				Total units		**14**	
Year 3	**PHYS 3100**	**Mathematical Methods of Physics**	MATH 2320 with a grade of C (2.0) or higher, MATH 2310, PHYS 100, PHYS 2510, and a combined 2.0 GPC in 2000-level physics courses	**4**	**Fall**		**PHYS 3400**	**Electricity & Magnetism**	PHYS 3100 with a grade of C- or better & PHYS 2700 with a grade of C- or better or co-req of PHYS 2700	**3**	**Spring**
	PHYS 3200	**Classical Mechanics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**4**	**Fall**		**PHYS 3500**	**Statistical and Thermal Physics**	PHYS 2700 and PHYS 3100 both with a grade of C- or better	**4**	**Spring**
	PHYS 3300	**Computational Physics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**3**	**Fall**		**PHYS 3800**	**Intermediate Physics Laboratory**	PHYS 2600L, PHYS 2700, PHYS 3300 AND a co-req of PHYS 2700 & PHYS 2600L	**2**	**Spring**
		GE courses		3	Fall & Spring			**PHYS Elective**		**3**	**Fall & Spring**
								GE course		3	Fall & Spring
		Total units		**14**				Total units		**15**	
Year 4	**PHYS 4400**	**Electricity & Magnetism II**	PHYS 3400 with a grade of C- or better	**3**	**Fall**		**PHYS 4800**	**Senior Thesis (WI)***	PHYS 3200, PHYS 3400, and PHYS 3800	**2**	**Spring**
	PHYS 4700	**Quantum Mechanics**	PHYS 2700, PHYS 3100, PHYS 3200, and PHYS 3400 all with grades of C- or better in each course	**4**	**Fall**			**PHYS Elective**		**3**	**Fall & Spring**
		PHYS Elective		**3**	**Fall & Spring**			GE course		3	Fall & Spring
		GE courses		6	Fall & Spring			GE courses		6	Fall & Spring
		Total units		**16**				Total units		**14**	
								***Can be substituted by ASTR 4000 Observational Astronomy (WI)**			

NOTES:

1. PHYS courses are in bold.
2. An additional 2 units of coursework of the student's choosing across the university will be required for graduation.
3. Plan averages 14-16 units per term. Taking less than this will require additional terms to graduate
4. Completing the requirements of the BS Physics will simultaneously satisfy the following GE requirements:

GE Math (Area B4)

GE Physical Science (Area B1)

GE lab (Area B-lab)

1 out of 2 Writing Intensive courses - upper division (this leaves 1 writing intensive course of the student's choosing upper or lower division

BS Physics - Alternate 3 year plan

		Fall	Pre-req courses	units	Term offered			Spring	Pre-req courses	units	Term offered
Year 1	MATH 2220	Calculus II	Math 2210 with grade of C- or higher	4	Fall & Spring		MATH 2320	Multivariable Calculus	Math 2220 and Math 2310 both with grade of C- or higher	4	Fall & Spring
	MATH 2310	Applied Linear Algebra	Math 2210 with grade of C- or higher, and Math 2220 as pre- or co-req	4	Fall & Spring		**PHYS 2510**	**General Physics II**	PHYS 2500 & MATH 2220	**4**	**Fall & Spring**
	PHYS 1500	**Tools for Physicists**	none	**3**	**Fall**		**PHYS 2510L**	**General Physics II Lab**	PHYS 2500, MPHYS 2500L, & MATH 2220 and co-req of PHYS 2510	**1**	**Fall & Spring**
	PHYS 2500	**General Physics I**	MATH 2210 and co-req of MATH 2220	**4**	**Fall & Spring**		**PHYS 2600L**	**Introduction to Electronics**	PHYS 2210 & MATH 2310	**1**	**Spring**
	PHYS 2500L	**General Physics I Lab**	MATH 2210 and co-reqs of MATH 2220 & PHYS 2500	**1**	**Fall & Spring**		CHEM 2100	General Chemistry I	1 yr HS chemistry or equivalent AND pre- or co-req of one of Math 1301, 1401, 1601, 2210, or 2220	4	Fall & Spring
							CHEM 2100L	General Chemistry I Laboratory	co-req of CHEM 2100	1	Fall & Spring
		Total units		**16**				Total units		**15**	
Year 2	**PHYS 3100**	**Mathematical Methods of Physics**	MATH 2320 with a grade of C (2.0) or higher, MATH 2310, PHYS 100, PHYS 2510, and a combined 2.0 GPC in 2000-level physics courses	**4**	**Fall**		**PHYS 2700**	**Modern Physics**	MATH 2310, PHYS 1500, PHYS 2510, PHYS 2510L & a co-req of MATH 2320	**3**	**Spring**
	PHYS 3200	**Classical Mechanics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**4**	**Fall**		**PHYS 3400**	**Electricity & Magnetism**	PHYS 3100 with a grade of C- or better & PHYS 2700 with a grade of C- or better or co-req of PHYS 2700	**3**	**Spring**
	PHYS 3300	**Computational Physics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**3**	**Fall**		**PHYS 3800**	**Intermediate Physics Laboratory**	PHYS 2600L, PHYS 2700, PHYS 3300 AND a co-req of PHYS 2700 & PHYS 2600L	**2**	**Spring**
		GE courses		3	Fall & Spring			GE courses		3	Fall & Spring
		Total units		**14**				Total units		**11**	
Year 3	**PHYS 4400**	**Electricity & Magnetism II**	PHYS 3400 with a grade of C- or better	**3**	**Fall**		**PHYS 3500**	**Statistical and Thermal Physics**	PHYS 2700 and PHYS 3100 both with a grade of C- or better	**4**	**Spring**
	PHYS 4700	**Quantum Mechanics**	PHYS 2700, PHYS 3100, PHYS 3200, and PHYS 3400 all with grades of C- or better in each course	**4**	**Fall**		**PHYS 4800**	**Senior Thesis (WI)***	PHYS 3200, PHYS 3400, and PHYS 3800	**2**	**Spring**
		PHYS Elective		**3**	**Fall & Spring**			**PHYS Elective**		**3**	**Fall & Spring**
		GE courses		3	Fall & Spring			**PHYS Elective**		**3**	**Fall & Spring**
		Total units		**13**				Total units		**12**	
								***Can be substituted by ASTR 4000 Observational Astronomy (WI)**			

NOTES:

1. PHYS courses are in bold.

2. Students will still need to complete 42 units of GE credit to graduate. This includes the 9 units of GE shown above. At least 9 UD units of GE need to be completed at CSUSB, as shown above.

2. Above plan only advisable for students who have completed MATH 2210 & numerous GE units prior to starting year 1 on the 3 yr plan.

3. An additional 2 units of coursework of the student's choosing across the university will be required for graduation.

4. Completing the requirements of the BS Physics will simultaneously satisfy the following GE requirements:

GE Math (Area B4)

GE Physical Science (Area B1)

GE lab (Area B-lab)

1 out of 2 Writing Intensive courses - upper division (this leaves 1 writing intensive course of the student's choosing upper or lower division

BS Physics - 2 year plan

		Fall	Pre-req courses	units	Term offered			Spring	Pre-req courses	units	Term offered
Year 1	MATH 2310	Applied Linear Algebra	Math 2210 with grade of C- or higher, and Math 2220 as pre- or co-req	4	Fall & Spring		CHEM 2100	General Chemistry I	1 yr HS chemistry or equivalent AND pre- or co-req of one of Math 1301, 1401, 1601, 2210, or 2220	4	Fall & Spring
	PHYS 1500	**Tools for Physicists**	none	**3**	**Fall**		CHEM 2100L	General Chemistry I Laboratory	co-req of CHEM 2100	1	Fall & Spring
	PHYS 3100	**Mathematical Methods of Physics**	MATH 2320 with a grade of C (2.0) or higher, MATH 2310, PHYS 100, PHYS 2510, and a combined 2.0 GPC in 2000-level physics courses	**4**	**Fall**		**PHYS 2600L**	**Introduction to Electronics**	PHYS 2210 & MATH 2310	**1**	**Spring**
	PHYS 3200	**Classical Mechanics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**4**	**Fall**		**PHYS 3400**	**Electricity & Magnetism**	PHYS 3100 with a grade of C- or better & PHYS 2700 with a grade of C- or better or co-req of PHYS 2700	**3**	**Spring**
	PHYS 3300	**Computational Physics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**3**	**Fall**		**PHYS 3800**	**Intermediate Physics Laboratory**	PHYS 2600L, PHYS 2700, PHYS 3300 AND a co-req of PHYS 2700 & PHYS 2600L	**2**	**Spring**
								GE courses		3	Fall & Spring
		Total units		**18**				Total units		**14**	
Year 2	**PHYS 4400**	**Electricity & Magnetism II**	PHYS 3400 with a grade of C- or better	**3**	**Fall**		**PHYS 3500**	**Statistical and Thermal Physics**	PHYS 2700 and PHYS 3100 both with a grade of C- or better	**4**	**Spring**
	PHYS 4700	**Quantum Mechanics**	PHYS 2700, PHYS 3100, PHYS 3200, and PHYS 3400 all with grades of C- or better in each course	**4**	**Fall**		**PHYS 4800**	**Senior Thesis (WI)***	PHYS 3200, PHYS 3400, and PHYS 3800	**2**	**Spring**
		PHYS Elective		**3**	**Fall & Spring**			**PHYS Elective**		**6**	**Fall & Spring**
		GE courses		3	Fall & Spring			GE courses		3	Fall & Spring
		Total units		**13**				Total units		**15**	
								***Can be substituted by ASTR 4000 Observational Astronomy (WI)**			

NOTES:

1. PHYS courses are in bold.

2. Assumes student have transferred in with the Associate in Science Degree (AS-T) in Physics. Includes intro physics sequence through modern physics, year-long calculus sequence, and multivariable calculus, plus all lower division GEs.

3. An additional 2 units of coursework of the student's choosing across the university will be required for graduation.

4. Completing the requirements of the BS Physics will simultaneously satisfy the following GE requirements:

GE Math (Area B4)

GE Physical Science (Area B1)

GE lab (Area B-lab)

1 out of 2 Writing Intensive courses - upper division (this leaves 1 writing intensive course of the student's choosing upper or lower division

BA Physics - 4 year plan

		Fall	Pre-req courses	units	Term offered			Spring	Pre-req courses	units	Term offered
Year 1	MATH 2210	Calculus I	MATH 1401 or satisfactory score on placement exam	4	Fall & Spring		MATH 2220	Calculus II	Math 2210 with grade of C- or higher	4	Fall & Spring
	PHYS 1500	**Tools for Physicists**	none	**3**	**Fall**		**PHYS 2500**	**General Physics I**	MATH 2210 and co-req of MATH 2220	**4**	**Fall & Spring**
	CHEM 2100	General Chemistry I	1 yr HS chemistry or equivalent AND pre- or co-req of one of Math 1301, 1401, 1601, 2210, or 2220	4	Fall & Spring		**PHYS 2500L**	**General Physics I Lab**	MATH 2210 and co-reqs of MATH 2220 & PHYS 2500	**1**	**Fall & Spring**
	CHEM 2100L	General Chemistry I Laboratory	co-req of CHEM 2100	1	Fall & Spring			GE courses		6	Fall & Spring
		GE courses		3	Fall & Spring						
		Total units		**15**				Total units		**15**	
Year 2	MATH 2310	Applied Linear Algebra	Math 2210 with grade of C- or higher, and Math 2220 as pre- or co-req	4	Fall & Spring		MATH 2320	Multivariable Calculus	Math 2220 and Math 2310 both with grade of C- or higher	4	Fall & Spring
	PHYS 2510	**General Physics II**	PHYS 2500 & MATH 2220	**4**	**Fall & Spring**		**PHYS 2600L**	**Introduction to Electronics**	PHYS 2210 & MATH 2310	**1**	**Spring**
	PHYS 2510L	**General Physics II Lab**	PHYS 2500, MPHYS 2500L, & MATH 2220 and co-req of PHYS 2510	**1**	**Fall & Spring**		**PHYS 2700**	**Modern Physics**	MATH 2310, PHYS 1500, PHYS 2510, PHYS 2510L & a co-req of MATH 2320	**3**	**Spring**
		GE courses		6	Fall & Spring			GE courses		6	Fall & Spring
		Total units		**15**				Total units		**14**	
Year 3	**PHYS 3100**	**Mathematical Methods of Physics**	MATH 2320 with a grade of C (2.0) or higher, MATH 2310, PHYS 100, PHYS 2510, and a combined 2.0 GPC in 2000-level physics courses	**4**	**Fall**		**PHYS 3400**	**Electricity & Magnetism**	PHYS 3100 with a grade of C- or better & PHYS 2700 with a grade of C- or better or co-req of PHYS 2700	**3**	**Spring**
	PHYS 3200	**Classical Mechanics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**4**	**Fall**		**PHYS 3500**	**Statistical and Thermal Physics**	PHYS 2700 and PHYS 3100 both with a grade of C- or better	**4**	**Spring**
	PHYS 3300	**Computational Physics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**3**	**Fall**		**PHYS 3800**	**Intermediate Physics Laboratory**	PHYS 2600L, PHYS 2700, PHYS 3300 AND a co-req of PHYS 2700 & PHYS 2600L	**2**	**Spring**
		GE courses		3	Fall & Spring			GE course		3	Fall & Spring
		Total units		**14**				Total units		**12**	
Year 4		**PHYS Elective**		**3**	**Fall & Spring**		**PHYS 4800**	**Senior Thesis (WI)***	PHYS 3200, PHYS 3400, and PHYS 3800	**2**	**Spring**
		GE courses		9	Fall & Spring			**PHYS Elective**		**3**	**Fall & Spring**
								GE course		9	Fall & Spring
		Total units		**12**				Total units		**14**	
								***Can be substituted by ASTR 4000 Observational Astronomy (WI)**			

NOTES:

1. PHYS courses are in bold.
2. An additional 12 units of coursework of the student's choosing across the university will be required for graduation.
3. Plan averages 14-16 units per term. Taking less than this will require additional terms to graduate
4. Completing the requirements of the BS Physics will simultaneously satisfy the following GE requirements:

GE Math (Area B4)

GE Physical Science (Area B1)

GE lab (Area B-lab)

1 out of 2 Writing Intensive courses - upper division (this leaves 1 writing intensive course of the student's choosing upper or lower division

BA Physics - Alternate 3 year plan

		Fall	Pre-req courses	units	Term offered			Spring	Pre-req courses	units	Term offered
Year 1	MATH 2220	Calculus II	Math 2210 with grade of C- or higher	4	Fall & Spring		MATH 2320	Multivariable Calculus	Math 2220 and Math 2310 both with grade of C- or higher	4	Fall & Spring
	MATH 2310	Applied Linear Algebra	Math 2210 with grade of C- or higher, and Math 2220 as pre- or co-req	4	Fall & Spring		**PHYS 2510**	**General Physics II**	PHYS 2500 & MATH 2220	**4**	**Fall & Spring**
	PHYS 1500	**Tools for Physicists**	none	**3**	**Fall**		**PHYS 2510L**	**General Physics II Lab**	PHYS 2500, MPHYS 2500L, & MATH 2220 and co-req of PHYS 2510	**1**	**Fall & Spring**
	PHYS 2500	**General Physics I**	MATH 2210 and co-req of MATH 2220	**4**	**Fall & Spring**		**PHYS 2600L**	**Introduction to Electronics**	PHYS 2210 & MATH 2310	**1**	**Spring**
	PHYS 2500L	**General Physics I Lab**	MATH 2210 and co-reqs of MATH 2220 & PHYS 2500	**1**	**Fall & Spring**		CHEM 2100	General Chemistry I	1 yr HS chemistry or equivalent AND pre- or co-req of one of Math 1301, 1401, 1601, 2210, or 2320	4	Fall & Spring
							CHEM 2100L	General Chemistry I Laboratory	co-req of CHEM 2100	1	Fall & Spring
		Total units		**16**				Total units		**15**	
Year 2	**PHYS 3100**	**Mathematical Methods of Physics**	MATH 2320 with a grade of C (2.0) or higher, MATH 2310, PHYS 100, PHYS 2510, and a combined 2.0 GPC in 2000-level physics courses	**4**	**Fall**		**PHYS 2700**	**Modern Physics**	MATH 2310, PHYS 1500, PHYS 2510, PHYS 2510L & a co-req of MATH 2320	**3**	**Spring**
	PHYS 3200	**Classical Mechanics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**4**	**Fall**		**PHYS 3400**	**Electricity & Magnetism**	PHYS 3100 with a grade of C- or better & PHYS 2700 with a grade of C- or better or co-req of PHYS 2700	**3**	**Spring**
	PHYS 3300	**Computational Physics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**3**	**Fall**		**PHYS 3800**	**Intermediate Physics Laborator**	PHYS 2600L, PHYS 2700, PHYS 3300 AND a co-req of PHYS 2700 & PHYS 2600L	**2**	**Spring**
		GE courses		3	Fall & Spring			GE courses		3	Fall & Spring
		Total units		**14**				Total units		**11**	
Year 3		**PHYS Elective**		**6**	**Fall & Spring**		**PHYS 3500**	**Statistical and Thermal Physics**	PHYS 2700 and PHYS 3100 both with a grade of C- or better	**4**	**Spring**
		GE courses		3	Fall & Spring		**PHYS 4800**	**Senior Thesis (WI)***	PHYS 3200, PHYS 3400, and PHYS 3800	**2**	**Spring**
		Total units		**9**				Total units		**6**	
								***Can be substituted by ASTR 4000 Observational Astronomy (WI)**			

NOTES:

1. PHYS courses are in bold.

2. Students will still need to complete 42 units of GE credit to graduate. This includes the 9 units of GE shown above. At least 9 UD units of GE need to be completed at CSUSB, as shown above.

2. Above plan only advisable for students who have completed MATH 2210 & numerous GE units prior to starting year 1 on the 3 yr plan.

3. An additional 12 units of coursework of the student's choosing across the university will be required for graduation.

4. Completing the requirements of the BS Physics will simultaneously satisfy the following GE requirements:

GE Math (Area B4)

GE Physical Science (Area B1)

GE lab (Area B-lab)

1 out of 2 Writing Intensive courses - upper division (this leaves 1 writing intensive course of the student's choosing upper or lower division

BA Physics - 2 year plan

		Fall	Pre-req courses	units	Term offered			Spring	Pre-req courses	units	Term offered
Year 1	MATH 2310	Applied Linear Algebra	Math 2210 with grade of C- or higher, and Math 2220 as pre- or co-req	4	Fall & Spring		CHEM 2100	General Chemistry I	1 yr HS chemistry or equivalent AND pre- or co-req of one of Math 1301, 1401, 1601, 2210, or 2220	4	Fall & Spring
	PHYS 1500	**Tools for Physicists**	none	**3**	**Fall**		CHEM 2100L	General Chemistry I Laboratory	co-req of CHEM 2100	1	Fall & Spring
	PHYS 3100	**Mathematical Methods of Physics**	MATH 2320 with a grade of C (2.0) or higher, MATH 2310, PHYS 100, PHYS 2510, and a combined 2.0 GPC in 2000-level physics courses	**4**	**Fall**		**PHYS 2600L**	**Introduction to Electronics**	PHYS 2210 & MATH 2310	**1**	**Spring**
	PHYS 3300	**Computational Physics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**3**	**Fall**		**PHYS 3400**	**Electricity & Magnetism**	PHYS 3100 with a grade of C- or better & PHYS 2700 with a grade of C- or better or co-req of PHYS 2700	**3**	**Spring**
							PHYS 3800	**Intermediate Physics Laboratory**	PHYS 2600L, PHYS 2700, PHYS 3300 AND a co-req of PHYS 2700 & PHYS 2600L	**2**	**Spring**
								GE courses		3	Fall & Spring
		Total units		**14**				Total units		**14**	
Year 2	**PHYS 3200**	**Classical Mechanics**	PHYS 2510, PHYS 2510L, and a co-req of PHYS 3100	**4**	**Fall**		**PHYS 3500**	**Statistical and Thermal Physics**	PHYS 2700 and PHYS 3100 both with a grade of C- or better	**4**	**Spring**
		PHYS Elective		**6**	**Fall & Spring**		**PHYS 4800**	**Senior Thesis (WI)***	PHYS 3200, PHYS 3400, and PHYS 3800	**2**	**Spring**
		GE courses		3	Fall & Spring			GE courses		3	Fall & Spring
		Total units		**13**				Total units		**9**	
								***Can be substituted by ASTR 4000 Observational Astronomy (WI)**			

NOTES:

1. PHYS courses are in bold.

2. Assumes student have transferred in with the Associate in Science Degree (AS-T) in Physics. Includes intro physics sequence through modern physics, year-long calculus sequence, and multivariable calculus, plus all lower division GEs.

3. An additional 12 units of coursework of the student's choosing across the university will be required for graduation.

4. Completing the requirements of the BS Physics will simultaneously satisfy the following GE requirements:

GE Math (Area B4)

GE Physical Science (Area B1)

GE lab (Area B-lab)

1 out of 2 Writing Intensive courses - upper division (this leaves 1 writing intensive course of the student's choosing upper or lower division

Elective Courses

	Course	Pre-req courses	units	Term offered
PHYS 3600	Data Acquisition and Control	PHYS 2600L, PHYS 3100, PHYS 3300	2	Spring
PHYS 4600	Electronics	PHYS 3600	3	
PHYS 4851-3	Special Topics in Physics	depends on the topic	1-3	
PHYS 4851L-2L	Special Topics in Physics	depends on the topic	1-3	
PHYS 5100	Mathematical Methods of Physics II	PHYS 3100	3	
PHYS 5400	Optics	PHYS 4400	3	Spring
PHYS 5500	Solid State Physics	PHYS 4700	3	Spring
PHYS 5700	Quantum Mechanics II	PHYS 4700 with grade of C (2.0) or better	3	Spring
PHYS 5751-3	Internship		1-3	Fall & Spring
PHYS 5851-3	Special Topics in Physics	depends on the topic	1-3	
PHYS 5851L-2L	Special Topics in Physics	depends on the topic	1-3	
PHYS 5951-3	Independent Study		1-3	Fall & Spring
ASTR 2300	Introduction to Astronomy for Scientists*	PHYS 2510, PHYS 2510L	4	Spring
ASTR 3300	Astrophysics of Planetary Systems	ASTR 2300	3	
ASTR 3310	Astrophysics of Galaxies and Cosmology	ASTR 2300	3	
ASTR 4000	Observational Astronomy (WI)	ASTR 2300, PHYS 3300 or other programming course	3	Fall

*** Does not count as an elective towards the BA or BS physics, but is a pre-req for ASTR 3300, ASTR 3310, and ASTR 4000 which are approved electives for those**

**** Specific elective courses are not guarenteed to be offered each year, but a selection of electives will be offered each year at the discretion of the**