

ENGINEERING PHYSICS PROGRAM - Basic (2015-16 BULLETIN)

NAME: _____

		Pre-Req.	Term	Math & Basic Sci.	Engin. Topics	Gen. Educ.	Other	Total	Term Taken	
T	Fresh. I	MATH111-Calculus I		I, II, S	4.0			4.0		
		CHGN121-Chemistry I		I, II	4.0			4.0		
		LAIS100-Nature & Human Val.		I,II			4.0		4.0	
		GEGN101-Earth & Env. OR CBEN110-Fund. Of Biology OR CSCI 101-Intro. Comp. Sci***		I, II, S	4.0				4.0	
		CSM101-Success Seminar						0.5	0.5	
		PAGN101-Physical Education		I				0.5	0.5	
		Total				12.0	0.0	4.0	1.0	17.0
E	Fresh. II	MATH112-Calculus II	MA111	I, II, S	4.0			4.0		
		CHGN122-Chemistry II	CH121	I, II, S	4.0			4.0		
		PHGN100-Physics I Mechan.	co-MA112	I, II, S	4.5				4.5	
		EPIC151-Design I		I, II		3.0	√		3.0	
		PAGN102-Physical Education		II				0.5	0.5	
		Total				12.5	3.0	0.0	0.5	16.0
R	Soph. I	MATH213- Calculus III	MA112	I, II, S	4.0			4.0		
		PHGN200-Physics II E&M	PH100, co-MA213	I, II, S	4.5			4.5		
		EPIC269-EPICS II-Eng. Phys■	EP151	I, II		3.0	√		3.0	
		LAIS200-Human Systems	LIHU100	I, II			3.0		3.0	
		PAGN20x-Physical Education		I, II				0.5	0.5	
		Total				8.5	3.0	3.0	0.5	15.0
M	Soph. II	MATH225/235-Differential Eq.	MA213	I,II,S/II	3.0			3.0		
		MATH332/342-Linear Algebra	MA213 or 223 or 224	I, II/II	3.0			3.0		
		PHGN215-Analog Circuits	PH200	II		4.0			4.0	
		PHGN300/310**-Mod. Physics I	PH200, co-MA225/235	I,II	3.0				3.0	
		CHGN209/CBEN210*-Intro Thermo.	CH122,PH100,MA112	I, II		3.0			3.0	
		PAGN20x-Physical Education		I, II				0.5	0.5	
		Total				9.0	7.0	0.0	0.5	16.5
Summer	PHGN384-Summer Field Sess.	PH300/310,PH215	S		6.0	√		6.0		

*The Physics Department recommends that you take CBEN210

■ Any flavor of EPICS II is allowed for Physics. EPIC 269 Fall only

**The Physics Department recommends that you take PHGN310

√ Significant Design

***CSCI 101 is only 3 credits--Students taking this course must take at least one additional credit to meet total credit hour requirements.

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T E R M	Jun. I	PHGN311-Intro to Math Phys.	MA225/235,332/342,PH300/310	I	3.0			3.0		
		PHGN315-Advanced Lab I	PH300/310	I		2.0 ✓		2.0		
		PHGN317-Digital Circuits	PH215 or EENG281+EG250	I		3.0 ✓			3.0	
		PHGN350-Interm. Mechanics	PH200, co-PH311	I		4.0			4.0	
		HSS Elective I					3.0		3.0	
		Total			3.0	9.0	3.0	0.0	15.0	
	Jun. II	PHGN320-Modern Physics II	PH300/310, PH311	II	4.0				4.0	
		PHGN326-Advanced Lab II	PH315	II		2.0 ✓			2.0	
		PHGN341-Thermal Physics	CHGN209/CBEN210*, PH311	II		3.0			3.0	
		PHGN361-Intermediate E&M	PH200, PH311	II		3.0			3.0	
		EBGN201-Prin of Economics		I,II,S			3.0		3.0	
		Total			4.0	8.0	3.0	0.0	15.0	
	Sen. I	PHGN471-Sr. Design Principles	PH384, PH326, co PH481	I		0.5 ✓			0.5	
		PHGN481-Sr. Design Practice■	PH384, PH326, co-PH471	I		2.5 ✓			2.5	
		PHGN462-EM Waves/Optic.PH	PH361	I		3.0			3.0	
		HSS Elective II					3.0		3.0	
		Free Elective I						3.0	3.0	
		Free Elective II						3.0	3.0	
		Total			0.0	6.0	3.0	6.0	15.0	
Sen. II	PHGN472-Sr. Design Principles	PH471, PH481, co PH482	II		0.5 ✓			0.5		
	PHGN482-Sr. Design Practice■	PH471, PH481, co PH472	II		2.5 ✓			2.5		
	Engineering Topics Elective				3.0			3.0		
	HSS Elective III					3.0		3.0		
	Free Elective III						3.0	3.0		
	Free Elective IV						3.0	3.0		
	Total			0.0	6.0	3.0	6.0	15.0		
TOTAL				49.0	48.0	19.0	14.5	130.5		

*The Physics Department recommends that you take CBEN210

■Honors courses PHGN491/492 may be substituted with instructor's consent.

✓ Significant Design