

Combined BSc (ENGINEERING PHYSICS) AND MSc(NUCLEAR ENGINEERING)
PROGRAM (2015-16 BULLETIN)

NAME _____

		Pre-Req.	Term	Math & Basic Sci.	Engin. Topics	Gen. Educ.	Other	Total	
T E R M	Fresh. I	MATH111-Calculus I	I, II, S	4	0 0	0	0	4	
		CHGN121-Chemistry I	I, II	4	0 0	0	0	4	
		LAIS100-Nature & Human Val.	I,II	0	0 0	4	0	4	
		GEGN101-Earth & Env. OR CBEN110-Fund. Of Biology OR CSCI 101-Intro. Comp. Sci***		I, II, S	4	0 0	0	0	4
		CSM101-Success Seminar			0	0 0	0	0.5	0.5
		PAGN101-Physical Education		I	0	0 0	0	0.5	0.5
		Total			12	0 0	4	1	17
	Fresh. II	MATH112-Calculus II	MA111	I, II, S	4	0 0	0	0	4
		CHGN122-Chemistry II	CH121	I, II, S	4	0 0	0	0	4
		PHGN100-Physics I Mechan.	co-MA112	I, II, S	4.5	0 0	0	0	4.5
		EPIC151-Design I		I, II	0	3 0	0	0	3
		PAGN102-Physical Education		II	0	0 0	0	0.5	0.5
		Total			12.5	3	0	0.5	16
	Soph. I	MATH213- Calculus III	MA112	I, II, S	4	0 0	0	0	4
		PHGN200-Physics II E&M	PH100, co-MA213	I, II, S	4.5	0 0	0	0	4.5
		EPIC269-EPICS II-Eng. Phys	EP151	I, II	0	3 0	0	0	3
		LAIS200-Human Systems	LIHU100	I, II	0	0 0	3	0	3
CEEN241-Statics		PHGN100	I, II, S1		3			3	
PAGN20x-Physical Education			I, II	0	0 0	0	0.5	0.5	
Total				8.5	6	3	0.5	18	
Soph. II	MATH225/235-Differential Eq.	MA213	I,II,S/II	3	0			3	
	MATH332/342-Linear Algebra	MA213 or 223 or 224	I, II/II	3				3	
	PHGN215-Analog Circuits	PH200	II		4 0			4	
	PHGN300/310**-Mod. Physics I	PH200, co-MA225/235	I,II	3	0			3	
	CHGN209/CBEN210*-Intro Thermo.	CH122,PH100,MA112	I, II		3 0			3	
	PAGN20x-Physical Education		I, II		0		0.5	0.5	
	Total			9	7 0		0.5	16.5	
Summer	PHGN384-Summer Field Sess.	PH300/310,PH215	S		6			6	

*The Physics Department recommends that you take CBEN210

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

**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	
		PHGN315-Advanced Lab I	PH300/310	I		2		2	
		PHGN317-Digital Circuits	PH215 or EENG281+EG250	I		3		3	
		PHGN350-Interm. Mechanics	PH200, co-PH311	I		4	0	4	
		HSS Elective I				0	3	3	
		Total			3	9	0	3	0
	Jun. II	PHGN320-Modern Physics II	PH300/310, PH311	II	4	0	0	0	4
		PHGN326-Advanced Lab II	PH315	II	0	2	0	0	2
		PHGN341-Thermal Physics	CHGN209/CBEN210*, PH311	II	0	3	0	0	3
		PHGN361-Intermediate E&M	PH200, PH311	II	0	3	0	0	3
		MEGN351-Fluid Mechanics	CEEN241	I,II	0	3	0	0	3
		Total			4	11	0	0	0
	Sen. I	PHGN471-Sr. Design Principles	PH384, PH326, co PH481	I	0	0.5	0	0	0.5
		PHGN481-Sr. Design Practice■	PH384, PH326, co-PH471	I	0	2.5	0	0	2.5
		PHGN462-EM Waves/Optic.PH	PH361	I	0	3	0	0	3
		PHGN422-Nuclear Physics	PH300/310	I	0	3	0	0	3
		MEGN471-Heat Transfer	MA224/235,ME351,ME361 or PH341	I,II	0	3	0	0	3
		HSS Elective II			0	0	3	0	3
		Total			0	12	0	3	0
Sen. II	PHGN472-Sr. Design Principles	PH471, PH481, co PH482	II	0	0.5	0	0	0.5	
	PHGN482-Sr. Design Practice■	PH471, PH481, co PH472	II	0	2.5	0	0	2.5	
	NUGN510-Intr. Nucl. Reac. Phys.	PH422	II	0	3	0	0	3	
	NUGN520-Thermal Hydraulics	MEGN351 and 471	II	0	3	0	0	3	
	HSS Elective III			0	0	3	0	3	
	EBGN201-Prin of Economics		I,II,S	0	0	3	0	3	
	Total			0	9	0	6	0	15
TOTAL				49	63	19	2.5	133.5	

*The Physics Department recommends that you take CBEN210

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

√ Significant Design