ENGINEERING PHYSICS PROGRAM - Basic (2020-21 catalog) ***NAME:_____***

			Pre-Req./ Course Designations	Term	Math & Basic Sci.	Engin. Topics	Gen. Educ.	Other	Total	Term Taken
TERM	Fresh. I	MATH111-Calculus I		I, II, S	4.0				4.0	
		CHGN121-Chemistry I		I, II	4.0				4.0	
		HASS100-Nature & Human Val.		I,II			4.0		4.0	
		GEGN101-Earth & Env. OR CBEN110-Fund. Of Biology*** OR CSCI 101 + CSCI102-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	
	Fresh. II	MATH112-Calculus II	MA111	I, II, S	4.0				4.0	
		CHGN122-Chemistry II OR CHGN125-Molec. Eng. And Mat. Chem.*	CH121	I, II, S	4.0				4.0	
		PHGN100-Physics I Mechan.	co-MA112	I, II, S	4.5				4.5	
		EDNS151-Intro to Design		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	
	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	
		EDNS251-Prac of Des-Eng.■	EDNS151	I, II		3.0 √			3.0	
		HASS200-Global Studies	HASS100	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	
	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	
		CSCI250-Python Based Computing	co-MA213, co-PH200	I, II,S		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,CS250	S		6.0 √			6.0	

*Nuc. Eng. & CBE Combined Students should take CHGN122

**The Physics Department recommends that you take PHGN310

***Biomechanics Track Combined Students should take CBEN110

■Physics allows any flavor of Practice of Design.

√ Significant Design

Revised: 09 Dec. 2020

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			Pre-Req./ Course Designations	Term	Math & Basic Sci.	Engin. Topics	Gen. Educ.	Other	Total	Term Taken
	Jun. I	PHGN311-Intro to Math Phys.	MA225/235,332/342, PH300/310,CS250	I	3.0				3.0	
		PHGN315-Advanced Lab I	PH300/310,PH384	I		2.0 √			2.0	
		PHGN317-Digital Circuits	PH215 or EENG282, CS250	I		3.0 √			3.0	
		PHGN350-Interm. Mechanics	PH200, co-PH311	I		4.0			4.0	
		H&SS Mid-Level 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	
T		PHGN326-Advanced Lab II	PH315	II		2.0 √			2.0	
		PHGN341-Thermal Physics	CHGN122/125, PH311	II		3.0			3.0	
E		PHGN361-Intermediate E&M	PH200, PH311	II		3.0			3.0	
		EBGN201-Prin of Economics		I,II,S			3.0		3.0	
R		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	
M		PHGN481-Sr. Design Practice■	PH384, PH326, co-PH471	I		2.5 √			2.5	
		PHGN462-EM Waves/Optic.PH	PH361	I		3.0			3.0	
		H&SS Mid-Level 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	PH384, PH326, co PH482	II		0.5 √			0.5	
		PHGN482-Sr. Design Practice■	PH384, PH326, co-PH472	II		2.5 √			2.5	
		Engineering Topics Elective				3.0			3.0	
		H&SS 400-Level Elective					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	

Note: H&SS is Humanities and Social Sciences, and it includes HASS & EBGN courses

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

√ Significant Design

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