COMBINED MAJOR IN BIOENGINEERING AND BIOCHEMISTRY BACHELOR OF SCIENCE IN BIOENGINEERING CURRICULUM OUTLINE - CLASS OF 2024

Sample Only – Actual Curriculum Sequence May Deviate from Sample

		FALL		SPRING			SUMMER 1		SUMMER 2
	CHEM1151	General Chem. for Engrs.	4 GE1502	Cornerstone of Eng'g. 2	4	PHYS1155	Physics 2	3	
	CHEM1153	Recitation for CHEM1151	0 MATH2321	Calculus 3 for Engrs.	4	or PHYS1175	•		
	ENGW1111	First-Year Writing	4 PHYS1171	Physics 1 for BioE	3	PHYS1156	Physics 2 Lab	ı	
	GE1000	Intro. to Eng'g.	1 or PHYS1151	,	-	or PHYS1176	,		
Year 1	GE1501	Cornerstone of Eng'g. 1	4 PHYS1172	Physics 1 Lab	1	PHYS1157	ILS for PHYS1155	1	Vacation
	MATH1342	Calculus 2 for Engrs.	4 or PHYS1152	Thysics I cab	-	or PHYS1177	125 101 1111 51155	1	T d d d d d d d
	WATTITISAZ	Calculus 2 for Eligis.	PHYS1173	ILS for PHYS1171	1	Elective	General Elective	,	
			or PHYS1153	123 101 711131171	1	Liective	General Liective	*	
			Elective	General Elective	1				
	BIOE2355	Quantitative Physiology	4 BIOE2350	Biomechanics	4	CHEM2313	Org. Chem 2	,	
	BIOE2365	BioE Meas. Exp. & Stats.	4 BIOE3380	Biomol. Dynamics & Ctrl.	4	CHEM2313	Lab for CHEM2313		
	BIOE2366	Lab for BIOE2365	1 BIOL2301	Genetics & Molecular Bio	4	Elective	General Elective	il	
Year 2	BIOL1115	Biology for Engineers	4 BIOL2302	Lab for BIOL2301	1	Liective	General Elective	*	
MC	or BIOL1111	biology for Engineers	CHEM2311	Organic Chemisty 1	1				Со-ор
IVIC	BIOL1116	Lab for BIOL1115	1 CHEM2312	Lab for CHEM2311	1				
	or BIOL1112	Lab for biocitis	ENCP2000	Intro to Eng'g, Co-op	1				
	MATH2341	Diff eg and Linear Algebra	4	little to Elig g, co-op	1				
	BIOE2365	BioE Meas. Exp. & Stats.	4					CHEMASSIS	Org. Chem 2 4
	BIOE2366	Lab for BIOE2365	1						Lab for CHEM2313
	BIOL1115	Biology for Engineers	4					Elective	General Elective 4
		Biology for Engineers	4					Elective	General Elective 4
V2	or BIOL1111	Lab for BIOL1115	1						
Year 2	BIOL1116	Lab for BIOL1113	1	Со-ор			Co-op		
MD	or BIOL1112	Organia Chamistu 1	4						
	CHEM2311	Organic Chemisty 1	4						
	CHEM2312	Lab for CHEM2311	1						
	ENCP2000	Intro to Eng'g, Co-op	1						
	MATH2341	Diff eq and Linear Algebra	4 DIOF3340	Dischartales.	_	DIOE3340	Transport & Fluids		
			BIOE3210	Bioelectricity	4	BIOE3310	Transport & Traids		
., .			BIOE54XX	BioE 5410, 5420, or 5430	4	BIOE4790	Capstone Design 1	*	
Year 3		C	BIOE54XX	BioE 5410, 5420, or 5430	4				C
MC		Со-ор	BIOL3611	Biochemistry	4				Со-ор
			BIOL3612	Lab for BIOL 3611	1				
			ENCP3000	Prof. Issues in Eng'g.	1				
	DIOF22FO	Diamanhania	4 *FNC\4(2202	Adv. Mariation in the Teet Doof	4			DIOF3340	Transport O Florida
	BIOE2350 BIOE2355	Biomechanics Ouantitative Physiology	4 <u>*ENGW3302</u>	Adv Writing in the Tech Prof (to be taken online)	4			BIOE3310 BIOE4790	Transport & Fluids 4 Capstone Design 1 4
V 3		Quantitative Physiology	4	(to be taken online)				BIUE4790	Capstone Design 1 4
Year 3 MD	BIOE3380 BIOL2301	Biomol. Dynamics & Ctrl.	4				Со-ор		
IVID		Genetics and Molecular Biology	4	Ca. a.a.			со-ор		
	BIOL2302	Lab for BIOL2301	1	Со-ор					
	ENCP3000	Prof. Issues in Eng'g.	1						
	*ENGW3302	Adv Writing in the Tech Prof	4 BIOE4792	Canstone Design 2	^				
Year 4	ENGW55UZ	(to be taken online)	BIOE54XX	Capstone Design 2 BioE 5410, 5420, or 5430	4				
MC		(to be taken online)	Elective	Advanced BIOL Elective	4				
IVIC		Co-op			4				
	BIOE3210	Pipelectricity	Elective 4 BIOE54XX	Advanced CHEM Elective	4	-		1	
Veer 4			4 BIOE54XX	BioE 5410, 5420, or 5430	4				
Year 4	BIOE4792	Capstone Design 2		BioE 5410, 5420, or 5430	4				
MD	BIOE54XX	BioE 5410, 5420, or 5430	4 Elective	Advanced BIOL Elective	4				
	BIOL3611	Biochemistry	4 Elective	Advanced CHEM Elective	4				
	BIOL3612	Lab for BIOL 3611	1						Povised E/7/20

Revised 5/7/20

Students will need to have Advanced Standing Credit (such as AP, IB or college credit) for Math 1341 Calculus 1 - see advisor

*ENGW3307 or ENGW3315 are acceptable substitutions.

NUPath Requirements: Interpreting Culture (IC), Societies and Institutions (SI), Differences and Diversity (DD) and Integration Experience (EX) are not explicitly satisfied by required engineering courses. Students are responsible for statisfying these requirements and should use General Electives to do so.

Please consult with your Academic Advisor, found here.

Degree requirements can be found in the academic catalog and DARS provides a degree audit for students.