



To: Academic Affairs Committee

From: Zora Thomova, Associate Provost for Academic Affairs

Date: March 3, 2025

Re: Change of Physics courses requirements due to ESF introducing its own physics curriculum

Members of the committee:

This letter serves as a request to approve the curriculum change for the undergraduate degree programs listed below to have the new ESF-based physics courses replace their respective physics requirements.

Academic programs affected by the physics course change

Program	Physics Course requirements	Credits
Bioprocess Engineering	PHY 211/221	4
	PHY 212/222	4
Chemical Engineering	PHY 211/221	4
	PHY 212/222	4
Paper Engineering	PHY 211/221	4
	PHY 212/222	4
Renewable Materials Science	PHY 211/221	4
	PHY 212/222	4
Chemistry	PHY 211/221	4
	PHY 212/222	4
Biochemistry	PHY 211/221	4
	PHY 212/222	4
Env. Resources Engr	PHY 211/221	4
	PHY 212/222	4
Environmental Science	PHY 211/221	4
	PHY 212/222	4
Construction Management	PHY 211/221	4
Aquatic & Fisheries Sc	PHY 102 ** FOR 110 is required, PHY 102 is an option for a second science	4
Biotechnology	PHY 101	4
	PHY 102	4
Environmental Health	PHY 101	4
	PHY 102	4
Forest Ecosystems Science	PHY 101	4

The courses will be replaced based on the following mapping

SU -> ESF guide

Course names:

SU		ESF
Fundamentals of Physics 1 and 2	→	Fundamentals of Physics 1 and 2
General Physics 1 and 2	→	Calculus Based Physics 1 and 2

Course numbers:

SU		ESF		SU		ESF
PHY 211	→	EPH 201 (lecture)		PHY 221	→	EPH 202 (lab)
PHY 212	→	EPH 203 (lecture)		PHY 222	→	EPH 204 (lab)
PHY 101	→	EPH 101 (lecture)		Lab for 101	→	EPH 102 (lab)
PHY 102	→	EPH 103 (lecture)		Lab for 102	→	EPH 104 (lab)